

University of Mumbai



**Revised Syllabus
and
Question Paper Pattern
of Courses of
B.Com. (Accounting and Finance)
Programme
Second Year
*Semester III and IV***

**Under Choice Based Credit, Grading and
Semester System**

(To be implemented from Academic Year 2017-2018)
Board of Studies-in-Accountancy

B.Com. (Accounting and Finance) Programme

Under Choice Based Credit, Grading and Semester System

Course Structure

S.Y.B.Com. (Accounting and Finance)

(To be implemented from Academic Year- 2017-2018)

No. of Courses	Semester III	Credits	No. of Courses	Semester IV	Credits
1	Elective Courses (EC)		1	Elective Courses (EC)	
1,2 & 3	*Any three courses from the following list of the courses	09	1,2 & 3	**Any three courses from the following list of the courses	09
2	Ability Enhancement Courses (AEC)		2	Ability Enhancement Courses (AEC)	
2A	Ability Enhancement Compulsory Course (AECC)		2A	Ability Enhancement Compulsory Course (AECC)	
4	Information Technology in Accountancy - I	03	4	Information Technology in Accountancy - II	03
2B	*Skill Enhancement Courses (SEC)		2B	**Skill Enhancement Courses (SEC)	
5	Any one course from the following list of the courses	02	5	Any one course from the following list of the courses	02
3	Core Courses (CC)		3	Core Courses (CC)	
6	Business Law (Business Regulatory Framework) - II	03	6	Business Law (Company Law) - III	03
7	Business Economics - II	03	7	Research Methodology in Accounting and Finance	03
Total Credits		20	Total Credits		20

*List of Skill Enhancement Courses (SEC) for Semester III (Any One)		**List of Skill Enhancement Courses (SEC) for Semester IV (Any One)	
1	Foundation Course in Commerce (Financial Market Operations) - III	1	Foundation Course in Management (Introduction to Management) - IV
2	Foundation Course- Contemporary Issues- III	2	Foundation Course- Contemporary Issues- IV
3	Foundation Course in NSS - III	3	Foundation Course in NSS – IV
4	Foundation Course in NCC - III	4	Foundation Course in NCC – IV
5	Foundation Course in Physical Education - III	5	Foundation Course in Physical Education -IV

*List of Elective Courses (EC) for Semester III (Any Three)		**List of Elective Courses (EC) for Semester IV (Any Three)	
1	Financial Accounting (Special Accounting Areas) - III	1	Financial Accounting (Special Accounting Areas) - IV
2	Cost Accounting (Methods of Costing) - II	2	Management Accounting (Introduction to Management Accounting)
3	Auditing (Techniques of Auditing and Audit Procedures) - II	3	Auditing - III
4	Taxation - II (Direct Taxes Paper- I)	4	Taxation - III (Direct Taxes- II)
5	Principles & Practices of Banking	5	Wealth Management

Note: Course selected in Semester III will continue in Semester IV

B.Com. (Accounting and Finance) Programme
Under Choice Based Credit, Grading and Semester System
Course Structure

(To be implemented from Academic Year 2017-2018)

Semester III

No. of Courses	Semester III	Credits
1	<i>Elective Courses (EC)</i> <i>*Any three courses from the following list of the courses</i>	
1	Financial Accounting (Special Accounting Areas) - III	03
2	Cost Accounting (Methods of Costing) - II	03
3	Auditing (Techniques of Auditing and Audit Procedures) - II	03
4	Taxation - II (Direct Taxes Paper- I)	03
5	Principles & Practices of Banking	03
2	<i>Ability Enhancement Courses (AEC)</i>	
2A	<i>Ability Enhancement Compulsory Course (AECC)</i>	
4	Information Technology in Accountancy - I	03
2B	<i>*Skill Enhancement Courses (SEC)</i>	
5	Any one course from the following list of the courses	02
3	<i>Core Courses (CC)</i>	
6	Business Law (Business Regulatory Framework) II	03
7	Business Economics II	03
Total Credits		20

<i>*List of Skill Enhancement Courses (SEC)</i> <i>for Semester III (Any One)</i>	
1	Foundation Course in Commerce (Financial Market Operations) - III
2	Foundation Course- Contemporary Issues- III
3	Foundation Course in NSS - III
4	Foundation Course in NCC - III
5	Foundation Course in Physical Education - III

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
Programme at Semester III
with Effect from the Academic Year 2017-2018**

1. Elective Courses (EC)

Financial Accounting (Special Accounting Areas) - III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Partnership Final Accounts based on Adjustment of Admission or Retirement / Death of a Partner during the Year	15
2	Piecemeal Distribution of Cash	10
3	Amalgamation of Firms	15
4	Conversion / Sale of a Partnership Firm into a Ltd. Company	10
5	Accounting of Transactions of Foreign Currency	10
Total		60

Sr. No.	Modules / Units
1	Partnership Final Accounts based on Adjustment of Admission or Retirement / Death of a Partner during the Year
	<p>Simple final accounts questions to demonstrate the effect on final Accounts when a partner is admitted during the year or when partner Retires / dies during the year</p> <p>Allocation of gross profit prior to and after admission / retirement / death when stock on the date of admission / retirement is not given and apportionment of other expenses based on time / Sales/other given basis</p> <p>Ascertainment of gross profit prior to and after admission/retirement / death when stock on the date of admission / retirement is given and apportionment of other expenses based on time / Sales / other given basis</p> <p>Excluding Questions where admission / retirement / death takes place in the same year</p>
2	Piecemeal Distribution of Cash
	<p>Excess Capital Method only</p> <p>Asset taken over by a partner</p> <p>Treatment of past profits or past losses in the Balance sheet</p> <p>Contingent liabilities / Realization expenses/amount kept aside for expenses and adjustment of actual</p> <p>Treatment of secured liabilities</p> <p>Treatment of preferential liabilities like Govt. dues / labour dues etc</p> <p>Excluding: Insolvency of partner and Maximum Loss Method</p>
3	Amalgamation of Firms
	<p>Realization method only</p> <p>Calculation of purchase consideration</p> <p>Journal/ledger accounts of old firms</p> <p>Preparing Balance sheet of new firm</p> <p>Adjustment of goodwill in the new firm</p> <p>Realignment of capitals in the new firm by current accounts / cash or a combination thereof</p> <p>Excluding : Common transactions between the amalgamating firms</p>
4	Conversion / Sale of a Partnership Firm into a Ltd. Company
	<p>Realisation method only</p> <p>Calculation of New Purchase consideration, Journal / Ledger Accounts of old firms.</p> <p>Preparing Balance sheet of new company</p>
5	Accounting of Transactions of Foreign Currency
	<p>In relation to purchase and sale of goods, services and assets and loan and credit transactions.</p> <p>Computation and treatment of exchange rate differences</p>

Note: Relevant Law/Statute/Rules in force and relevant Accounting Standards in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuring examination after relevant year.

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
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1. Elective Courses (EC)

Cost Accounting (Methods of Costing) – II

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Classification of Costs And Cost Sheets	20
2	Reconciliation of Cost and Financial Accounts	10
3	Contract Costing	15
4	Process Costing	15
Total		60

Sr. No.	Modules / Units
1	Classification of Costs and Cost Sheet
	Classification of costs, Cost of Sales, Cost Centre, Cost Unit, Profit Centre and Investment Centre Cost Sheet, Total Costs and Unit Costs, Different Costs for different purpose Problems on preparation of cost sheet & Estimated Cost sheet
2	Reconciliation of cost and financial accounts
	Practical problems based on reconciliation of cost and Financial accounts
3	Contract Costing
	Progress payments, Retention money, Contract accounts, Accounting for material, Accounting for Tax deducted at source by the contractee, Accounting for plant used in a contract, treatment of profit on incomplete contracts, Contract profit and Balance sheet entries. Escalation clause, practical problems
4	Process Costing
	Process loss, Abnormal gains and losses, Joint products and by products. Excluding Equivalent units, Inter-process profit Practical problems Process Costing and joint and by products

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1. Elective Courses (EC)

**Auditing (Techniques of Auditing and Audit
Procedures) - II**

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Vouching	15
2	Verification	15
3	Auditing Standards	15
4	Audit of Companies	15
Total		60

Sr. No.	Modules / Units
1	Vouching
1.1	Audit of Income : Revenue from Sales and Services, Rental Income, Interest & Dividends Income, Royalties Income, Recovery of Bad debts written off, Commission Received
1.2	Audit of Expenditure : Purchases, Salaries & Wages, Rent, Insurance Premium, Telephone expense , Petty cash payment, Advertisement, Travelling Salesmen's Commission, Freight Carriage and Custom Duties
2	Verification
2.1	Audit of assets : Plant & Machinery, Furniture and fixtures, Accounts Receivable, Investments, Inventory, Goodwill, Patent Rights
2.2	Audit of Liabilities: Outstanding Expenses, Accounts Payable, Secured loans, Unsecured Loans, Contingent Liabilities, Public Deposits
3	Auditing Standards
3.1	Meaning Procedure of issuing Auditing Standards in India Brief overview of Auditing Standards in India Scope of SAs Significance of the Auditing Standards Responsibility of auditor for auditing standards
3.2	Understanding of following standards SA 200. SA210, SA230, SA240, SA 250, SA300,SA315, SA320, SA505.
4	Audit of Companies
	Qualifications, Disqualifications, Appointments, Reappointment, Removal of auditors. Special auditors Branch auditors Rights and duties of company auditors

Note: *Relevant Law/Statute/Rules in force and relevant Standards in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuring examination after relevant year.*

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1. Elective Courses (EC)

Taxation - II (Direct Taxes Paper- I)

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Definitions u/s – 2 , Basis of Charge and Exclusions from Total Income	15
2	Heads of Income	15
3	Deductions under Chapter VI – A	15
4	Computation of Total Income	15
	Total	60

Sr. No.	Modules / Units
1	Definitions u/s – 2 , Basis of Charge and Exclusions from Total Income
	<p>Definitions u/s – 2 : Section 2 –Assessee, Assessment Year, Assessment, Annual value, Business, Capital asset, Income, Person, Previous Year, Transfer</p> <p>Basis of Charge : Section 3 – 9 – Previous Year, Residential Status, Scope Of Total Income, Deemed Income</p> <p>Exclusions from Total Income: Section 10 – restricted to, Agricultural Income, Sums Received From HUF By Member, Share of Profit from Firm, Casual & Non – Recurring Receipts, Scholarships, Income of Minor Child, Allowance to Members of Parliament and Legislative Assembly.</p> <p>Note -Exemptions related to specific Heads of Income to be covered with Relevant Provisions.</p>
2	Heads of Income
	<p>Various Heads of Income</p> <p>Salary Income: Section 15 – 17, Including Section 10 relating to House Rent Allowance, Travel Concession, Special Allowance, Gratuity, Pension – Commutation, Leave Encashment, Compensation, Voluntary Retirement, Payment from Provident Fund</p> <p>Income From House Property : Section 22 – 27, Including Section 2 – Annual Value</p> <p>Profits & Gains From Business & Profession : Vocation Section 28-32, 36, 37, 40, 40A, 43B, 44AD, 44ADA & 44AE including.: Section 2 – Business</p> <p>Capital Gains : Section 45, 48, 49, 50, 54 and 55</p> <p>Income from Other Sources: Section 56 – 59</p>
3	Deductions under Chapter VI – A
	<p>80 A- Restriction on claim in Chapter VI- A deductions</p> <p>80 C – Payment of LIC/PF and other eligible investments</p> <p>80CCC – Contribution to certain Pension Fund</p> <p>80D – Medical Insurance Premium</p> <p>80 DD- Maintenance and medical treatment of handicapped dependent</p> <p>80E – Interest on Educational Loan</p> <p>80 TTA- Interest on Saving Bank account</p> <p>80U – Deduction in the case of totally blind or physically handicapped or mentally retarded resident person</p>
4	Computation of Total Income
	Computation of Total Income of Individual and HUF with respect to above heads and deductions

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with Effect from the Academic Year 2017-2018**

Principles & Practices of Banking

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Indian Financial System	15
2	Functions of Banks and related issues	20
3	Banking Technology	15
4	Marketing & Services of Banking	10
Total		60

Sr. No.	Modules / Units
1	Indian Financial System
	Indian Financial system – An overview Banking Regulations Introduction to Retail Banking, wholesale banking and International banking Role of money market Debt market, capital market, Forex market & SEBI Mutual funds & Insurance companies & IRDA Factoring, Forfaiting services and off Balance sheet items Risk Management, Introduction of Basel norms CIBIL, Fair Practices code for Debt collection
2	Functions of Banks and related issues
	Banker Customer relationship KYC/AML/CFT norms Bankers special relationship Consumer protection – COPRA, Banking Ombudsman Scheme Payment and collection of cheque and other negotiable instrument Opening Accounts of various types of customers Ancillary services Cash Operations Principles of lending, working capital assessment and credit monitoring Priority sector advances Agricultural finance Micro, Small and Medium Enterprises – MSMED Act, Policy package Government Sponsored schemes –SGSY; SJSRY;PMRY;SLRS Self Help Groups Credit cards, Home loans, Personal Loans & Consumer loans Documentation Different types of charging securities Types of collaterals & their characteristics Non – Performing Assets Financial inclusion
3	Banking Technology
	Payments system & Electronic Banking Data communication and EFT Systems Role of Technology & its impact on Banks
4	Marketing & Services of Banking
	Marketing, Social Marketing Consumer behaviour and Product Pricing, distribution and channel management

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**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
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2A. Ability Enhancement Courses (AEC)

Information Technology in Accountancy - I

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Computers	10
2	Office Productivity Tools	20
3	Web	10
4	Introduction to Internet and other emerging technologies	10
5	Electronic Commerce	10
Total		60

Sr. No.	Modules / Units
1	Introduction to Computers
	History of Computers Parts of Computers Hardwares: Specifications and Data Storage Management Softwares: Concept of System Software and Applications Networking: Introduction and types of network topologies
2	Office Productivity Tools
	MS Word: Creating, Editing, Formatting and Printing of Documents, Using Tools, Mailmerge and Print Review and Set-up MS Excel: Creating Worksheet, Creating Various Formulae, Creating Charts, Rename and Copy of Worksheets, Using Tools, Printing Review and Set-up Power Point: Create Project Report, Create Slides, Animation, Page Designing, Insert Image, View Page, Print Review and Set-up. Use of Tools In Accounting :- Preparation of vouchers, invoices and reports, Calculation of Interest, Depreciation, TDS, Salary, Taxes, inventory and reconciliation
3	Web
	Use of Various Web Browser Information Searching Tools Downloading Create New email ID Sending Data through email Search engine optimisation
4	Introduction to Internet and other emerging technologies
	Introduction – Internet components – electronic commerce – e-commerce applications – Electronic Data Exchange – Extranet – Payment systems – Risks and security considerations – Legal issues – Other emerging technologies
5	Electronic Commerce
	Meaning, Advantages and Limitations of E Commerce, The role of Strategy in E Commerce, Value chains in E Commerce, Infrastructure for Electronic Commerce Web Based Tools for Electronic Commerce, Electronic Commerce software, Security Threats to electronic Commerce , Implementing Security for Electronic Commerce, Electronic Payment Systems, Strategies for Marketing, Sales & Promotion Strategies for Purchasing Logistics & Support Activities, Electronic Markets & Communities, Business Plans for Implementing Electronic Commerce.

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2B. Skill Enhancement Courses (SEC)

**Foundation Course in Commerce
(Financial Market Operations) - III**

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	An Overview of the Financial System	05
2	Financial Markets	15
3	Financial Instruments	10
4	Financial Services	15
	Total	45

Sr. No.	Modules / Units
1	An Overview of the Financial System
	Saving and Investment Money, Inflation and Interest Banking and Non Banking Financial Intermediaries
2	Financial Markets
	Financial Markets: Introduction and meaning, Government Economic Philosophy and Financial Market, Structure of Financial Market in India Capital Market: Introduction and meaning, Concept, Role, Importance, Evolution in India, Primary Market System and Regulations in India, Secondary Market System Bond Market in India Debt Market in India
3	Financial Instruments
	Meaning and types of Financial Instruments Characteristics of Financial Instruments: Liquidity, Maturity, Safety and Yield REPO, TBs, Equities, Bonds, Derivatives, others
4	Financial Services
	Merchant Banking : Managing of Public Equity / Debenture Issues Mobilizing Fixed Deposits, Arranging Inter-corporate Loans, Raising term Finance and Loan Syndication. Other Financial Services: Consumer Finance, Credit Cards, Mutual Funds and Commercial Paper

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2B. Skill Enhancement Courses (SEC)

Foundation Course- Contemporary Issues- III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Human Rights Provisions, Violations and Redressal	12
2	Dealing With Environmental Concerns	11
3	Science and Technology I	11
4	Soft Skills for Effective Interpersonal Communication	11
	Total	45

Sr. No.	Modules / Units
1	<p>Human Rights Violations and Redressal</p> <p>A. Scheduled Castes- Constitutional and legal rights, Forms of violations, Redressal mechanisms. (2 Lectures)</p> <p>B. Scheduled tribes- Constitutional and legal rights, Forms of violations, Redressal mechanisms. (2 Lectures)</p> <p>C. Women- Constitutional and legal rights, Forms of violations, Redressal mechanisms. (2 Lectures)</p> <p>D. Children- Constitutional and legal rights, Forms of violations, Redressal mechanisms. (2 Lectures)</p> <p>E. People with Disabilities, Minorities, and the Elderly population- Constitutional and legal rights, Forms of violations, Redressal mechanisms. (4 Lectures)</p>
2	<p>Dealing With Environmental Concerns</p> <p>A. Concept of Disaster and general effects of Disasters on human life- physical, psychological, economic and social effects. (3 Lectures)</p> <p>B. Some locally relevant case studies of environmental disasters. (2 Lectures)</p> <p>C. Dealing with Disasters - Factors to be considered in Prevention, Mitigation (Relief and Rehabilitation) and disaster Preparedness. (3 Lectures)</p> <p>D. Human Rights issues in addressing disasters- issues related to compensation, equitable and fair distribution of relief and humanitarian approach to resettlement and rehabilitation. (3 Lectures)</p>
3	<p>Science and Technology – I</p> <p>A. Development of Science- the ancient cultures, the Classical era, the Middle Ages, the Renaissance, the Age of Reason and Enlightenment. (3 Lectures)</p> <p>B. Nature of science- its principles and characteristics; Science as empirical, practical, theoretical, validated knowledge. (2 Lectures)</p> <p>C. Science and Superstition- the role of science in exploding myths, blind beliefs and prejudices; Science and scientific temper- scientific temper as a fundamental duty of the Indian citizen. (3 Lectures)</p> <p>D. Science in everyday life- technology, its meaning and role in development; Interrelation and distinction between science and technology. (3 Lectures)</p>
4	<p>Soft Skills for Effective Interpersonal Communication</p> <p>Part A (4 Lectures)</p> <p>I) Effective Listening - Importance and Features.</p> <p>II) Verbal and Non-Verbal Communication; Public-Speaking and Presentation Skills.</p> <p>III) Barriers to Effective Communication; Importance of Self-Awareness and Body Language.</p> <p>Part B (4 Lectures)</p> <p>I) Formal and Informal Communication - Purpose and Types.</p> <p>II) Writing Formal Applications, Statement of Purpose (SOP) and Resume.</p> <p>III) Preparing for Group Discussions, Interviews and Presentations.</p> <p>Part C (3 Lectures)</p> <p>I) Leadership Skills and Self-Improvement - Characteristics of Effective Leadership.</p> <p>II) Styles of Leadership and Team-Building.</p>

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11. Sathe, Satyaranjan P., *Judicial Activism in India*, Oxford University Press, New Delhi, 2003.
12. Singh, Ashok Kumar, *Science and Technology for Civil Service Examination*, Tata McGraw Hill, New Delhi, 2012.
13. Thorpe, Edgar, *General Studies Paper I Volume V*, Pearson, New Delhi, 2017.

Projects / Assignments (for Internal Assessment)

- i. Projects/Assignments should be drawn for the component on Internal Assessment from the topics in **Module 1 to Module 4**.
- ii. Students should be given a list of possible topics - at least 3 from each Module at the beginning of the semester.
- iii. The Project/Assignment can take the form of Street-Plays / Power-Point Presentations / Poster Exhibitions and similar other modes of presentation appropriate to the topic.
- iv. Students can work in groups of not more than 8 per topic.
- v. Students must submit a hard / soft copy of the Project / Assignment before appearing for the semester end examination.

QUESTION PAPER PATTERN (Semester III)

The Question Paper Pattern for Semester End Examination shall be as follows:

TOTAL MARKS: 75

DURATION: 150 MINUTES

QUESTION NUMBER	DESCRIPTION	MARKS ASSIGNED
1	<ol style="list-style-type: none">i. Question 1 A will be asked on the meaning / definition of concepts / terms from all Modules.ii. Question 1 B will be asked on the topic of the Project / Assignment done by the student during the Semesteriii. In all 8 Questions will be asked out of which 5 have to be attempted.	<ol style="list-style-type: none">a) Total marks: 15b) For 1 A, there will be 3 marks for each sub-question.c) For 1 B there will be 15 marks without any break-up.
2	Descriptive Question with internal option (A or B) on Module 1	15
3	Descriptive Question with internal option (A or B) on Module 2	15
4	Descriptive Question with internal option (A or B) on Module 3	15
5	Descriptive Question with internal option (A or B) on Module 4	15

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2B. Skill Enhancement Courses (SEC)

Foundation Course in NSS - III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Value System & Gender sensitivity	12
2	Disaster preparedness & Disaster management	10
3	Health, hygiene & Diseases	13
4	Environment & Energy conservation	10
Total		45

Sr. No.	Modules / Units
1	Value System & Gender sensitivity
	UNIT - I – Value System Meaning of value, Types of values- human values and social responsibilities- Indian value system- the concepts and its features UNIT - II - Gender sensitivity and woman empowerment Concept of gender- causes behind gender related problems- measures Meaning of woman empowerment- schemes for woman empowerment in India
2	Disaster preparedness & Disaster management
	UNIT - I - Basics of Disaster preparedness Disaster- its meaning and types Disaster preparedness- its meaning and methods UNIT - II - Disaster management Disaster management- concept- disaster cycle - role of technology in disaster response- role of as first responder – the study of ‘Avhan’ Model
3	Health, hygiene & Diseases
	UNIT - I - Health and hygiene Concept of complete health and maintenance of hygiene UNIT - II - Diseases and disorders- preventive campaigning Diseases and disorders- preventive campaigning in Malaria, Tuberculosis, Dengue, Cancer, HIV/AIDS, Diabetes
4	Environment & Energy conservation
	UNIT - I Environment and Environment enrichment program Environment- meaning, features , issues, conservation of natural resources and sustainability in environment UNIT - II Energy and Energy conservation program Energy- the concept, features- conventional and non- conventional energy Energy conservation- the meaning and importance

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2B. Skill Enhancement Courses (SEC)

Foundation Course in NCC - III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	National Integration & Awareness	10
2	Drill: Foot Drill	10
3	Adventure Training and Environment Awareness and Conservation	05
4	Personality Development and Leadership	10
5	Specialized subject (ARMY)	10
	Total	45

Sr. No.	Modules / Units
1	National Integration & Awareness
	<p>Desired outcome: The students will display sense of patriotism, secular values and shall be transformed into motivated youth who will contribute towards nation building through national unity and social cohesion.</p> <p>The students shall enrich themselves about the history of our beloved country and will look forward for the solutions based on strengths to the challenges to the country for its development.</p> <ul style="list-style-type: none"> • Freedom Struggle and nationalist movement in India. • National interests, Objectives, Threats and Opportunities. • Problems/ Challenges of National Integration. • Unity in Diversity
2	Drill: Foot Drill
	<p>Desired outcome: The students will demonstrate the sense of discipline, improve bearing, smartness, turnout, develop the quality of immediate and implicit obedience of orders, with good reflexes.</p> <ul style="list-style-type: none"> • Side pace, pace forward and to the rear • Turning on the march and whiling • Saluting on the march • Marking time, forward march and halt in quick time • Changing step • Formation of squad and squad drill
3	Adventure Training, Environment Awareness and Conservation
3A	Adventure Training
	<p>Desired outcome: The students will overcome fear & inculcate within them the sense of adventure, sportsmanship, esprit-d-corp and develop confidence, courage, determination, diligence and quest for excellence.</p> <ul style="list-style-type: none"> • Any Two such as – Obstacle course, Slithering, Trekking, Cycling, Rock Climbing, Para Sailing, Sailing, Scuba Diving etc.
3B	Environment Awareness and Conservation
	<p>Desired outcome: The student will be made aware of the modern techniques of waste management and pollution control.</p> <ul style="list-style-type: none"> • Waste management • Pollution control, water, Air, Noise and Soil
4	Personality Development and Leadership
	<p>Desired outcome: The student will inculcate officer like qualities with desired ability to take right decisions.</p> <ul style="list-style-type: none"> • Time management • Effect of Leadership with historical examples • Interview Skills • Conflict Motives- Resolution

Sr. No.	Modules / Units
5	Specialized Subject: Army Or Navy Or Air
	<p>Army</p> <p>Desired outcome: It will acquaint, expose & provide knowledge about Army/ Navy/ Air force and to acquire information about expanse of Armed Forces ,service subjects and important battles</p> <p>A. Armed Force</p> <ul style="list-style-type: none"> • Task and Role of Fighting Arms • Modes of Entry to Army • Honors and Awards <p>B. Introduction to Infantry and weapons and equipments</p> <ul style="list-style-type: none"> • Characteristics of 5.56mm INSAS Rifle, Ammunition, Fire power, Stripping, Assembling and Cleaning • Organization of Infantry Battalion. <p>C. Military history</p> <ul style="list-style-type: none"> • Study of battles of Indo-Pak War 1965,1971 and Kargil • War Movies <p>D. Communication</p> <ul style="list-style-type: none"> • Characteristics of Walkie-Talkies • Basic RT Procedure • Latest trends and Development (Multi Media, Video Conferencing, IT) <p style="text-align: center;">OR</p> <p>Navy</p> <p>A. Naval orientation and service subjects</p> <ul style="list-style-type: none"> • Organization of Ship- Introduction on Onboard Organization • Naval Customs and Traditions • Mode of Entry into Indian Navy • Branches of the Navy and their functions • Naval Campaign (Battle of Atlantic, Pearl Harbour, Falkland War/Fleet Review/ PFR/ IFR)s <p>B. Ship and Boat Modelling</p> <ul style="list-style-type: none"> • Types of Models • Introduction of Ship Model- Competition Types of Model Prepare in NSC and RDC • Care and handling of power-tools used- maintenance and purpose of tools

Sr. No.	Modules / Units
	<p>C. Search and Rescue</p> <ul style="list-style-type: none"> • Role of Indian Coast Guard related to SAR <p>D. Swimming</p> <ul style="list-style-type: none"> • Floating and Breathing Techniques- Precautions while Swimming <p style="text-align: center;">OR</p> <p><u>AIR</u></p> <p>A. General Service Knowledge</p> <ul style="list-style-type: none"> • Organization Of Air Force • Branches of the IAF. <p>B. Principles of Flight</p> <ul style="list-style-type: none"> • Venturi Effect • Aerofoil • Forces on an Aircraft • Lift and Drag <p>C. Airmanship</p> <ul style="list-style-type: none"> • ATC/RT Procedures • Aviation Medicine <p>D. Aero- Engines</p> <ul style="list-style-type: none"> • Types of Engines • Piston Engines • Jet Engines • Turboprop Engines

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
Programme at Semester III
with Effect from the Academic Year 2017-2018**

2B. Skill Enhancement Courses (SEC)

Foundation Course in Physical Education - III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Overview of Nutrition	10
2	Evaluation of Health, Fitness and Wellness	10
3	Prevention and Care of Exercise Injuries	10
4	Sports Training	15
Total		45

Sr. No.	Modules / Units
1	Overview of Nutrition
	<ul style="list-style-type: none"> • Introduction to nutrition & its principles • Role of Nutrition in promotion of health • Dietary Guidelines for Good Health • Regulation of water in body and factors influencing body temperature.
2	Evaluation of Health, Fitness and Wellness
	<ul style="list-style-type: none"> • Meaning & Concept of holistic health • Evaluating Personal health-basic parameters • Evaluating Fitness Activities – Walking & Jogging • Myths & mis-conceptions of Personal fitness
3	Prevention and Care of Exercise Injuries
	<ul style="list-style-type: none"> • Types of Exercise Injuries • First Aid- Importance & application in Exercise Injuries • Management of Soft tissues injuries • Management of bone injuries
4	Sports Training
	<ul style="list-style-type: none"> • Definition, aims & objectives of Sports training • Importance of Sports training • Principles of Sports training • Drug abuse & its effects

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
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with Effect from the Academic Year 2017-2018**

3. Core Courses (CC)

Business Law (Business Regulatory Framework) - II

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	The Indian Partnership Act - 1932	30
2	Limited Liability Partnership Act - 2008	10
3	Factories Act - 1948	20
Total		60

Sr. No.	Modules / Units
1	The Indian Partnership Act - 1932
	a) Concept of Partnership - Partnership and Company - Test for determination of existence for partnership - Kinds of partnership b) Registration and effects of non-registration of Partnership c) Rights and Duties of Partners d) Authority and Liability of partners e) Admission, Retirement and Expulsion of Partner f) Dissolution of Partnership
2	Limited Liability Partnership Act – 2008
	a) Nature of Limited Liability Partnership b) Incorporation of Limited Liability Partnership c) Extent and Limitation of Liability of Limited Liability Partnership and Partners d) Contributions e) Conversion Into Limited Liability Partnership f) Winding Up and Dissolution
3	Factories Act – 1948
	a) Definitions <ul style="list-style-type: none"> • Section 2 (k) – Manufacturing Process, • Section 2 (l) – Workers • Section 2 (m) – Factory b) Provisions pertaining to <ol style="list-style-type: none"> i. Health- Section 11 to Section 20 ii. Safety- Section 21 to Section 41 iii. Welfare- Section 42 to Section 49

Note: Relevant Law/ Statute/ Rules in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuring examination after relevant year.

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
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with Effect from the Academic Year 2017-2018**

3. Core Courses (CC)

Business Economics - II

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Overview of Macroeconomics	10
2	Money, prices and Inflation	10
3	Introduction to Public Finance	10
4	Public revenue, Public Expenditure and Debt	20
5	Fiscal Management and Financial Administration	10
	Total	60

Sr. No.	Modules / Units
1	Overview of Macroeconomics
	<p>Macroeconomics: Meaning, Scope and Importance.</p> <p>Circular flow of aggregate income and expenditure and its Importance- closed and open economy models</p> <p>The Measurement of National Product: Meaning and Importance of National Income Accounting- conventional and Green GNP and NNP concepts -National Income and Economic Welfare.</p> <p>Trade Cycles: Features and Phases</p> <p>Classical Macro economics : Say's law of Markets - Features, Implications and Criticism</p>
2	Money, prices and Inflation
	<p>Money Supply: Determinants of Money Supply - Factors influencing Velocity of Circulation of Money</p> <p>Demand for Money : Classical and Keynesian approaches and Keynes' liquidity preference theory of interest - Friedman's restatement of Demand for money</p> <p>Money and prices : Quantity theory of money - Fisher's equation of exchange - Cambridge cash balance approach</p> <p>Inflation : Demand Pull Inflation and Cost Push Inflation - Effects of Inflation- Nature of inflation in a developing economy - policy measures to curb inflation- monetary policy and inflation targeting</p>
3	Introduction to Public Finance
	<p>Meaning and Scope of Public finance.</p> <p>Major fiscal functions : allocation function, distribution function & stabilization function</p> <p>Principle of Maximum Social Advantage: Dalton and Musgrave Views - the Principle in Practice, Limitations.</p> <p>Relation between Efficiency, Markets and Governments</p> <p>The concept of Public Goods and the role of Government</p>
4	Public revenue, Public Expenditure and Debt
	<p>Sources of Public Revenue : tax and non-tax revenues</p> <p>Objectives of taxation - Canons of taxation - Types of taxes : direct and indirect - Tax Base and Rates of taxation : proportional, progressive and regressive taxation</p> <p>Shifting of tax burden: Impact and incidence of taxation - Processes- factors influencing incidence of taxation</p> <p>Economic Effects of taxation: on Income and Wealth, Consumption, Savings, Investments and Production.</p> <p>Redistributive and Anti – Inflationary nature of taxation and their implications</p> <p>Public Expenditure: Canons - classification - economic effects of public spending - on production, consumption, distribution, employment and stabilization - Theories of Public Expenditure: Wagner's Hypothesis and Wiseman Peacock Hypothesis - Causes for Public Expenditure Growth.</p> <p>Significance of Public Expenditure: Social security contributions- Low Income Support and Social Insurance Programmes.</p> <p>Public Debt : Classification - Burden of Debt Finance : Internal and External- Public Debt and Fiscal Solvency</p>

5	Fiscal Management and Financial Administration
	<p>Fiscal Policy: Meaning, Objectives, constituents and Limitations.</p> <p>Contra cyclical Fiscal Policy and Discretionary Fiscal Policy : Principles of Sound and Functional Finance</p> <p>Budget- Meaning objectives and types - Structure of Union budget - Deficit concepts-Fiscal Responsibility and Budget Management Act.</p> <p>Intergovernmental Fiscal Relations : fiscal federalism and fiscal decentralization - central-state financial relations - 14th Finance Commission recommendations</p>

B.Com. (Accounting and Finance) Programme
Under Choice Based Credit, Grading and Semester System
Course Structure

(To be implemented from Academic Year 2017-2018)

Semester IV

No. of Courses	Semester IV	Credits
1	<i>Elective Courses (EC)</i> *Any three courses from the following list of the courses	
1	Financial Accounting (Special Accounting Areas) - IV	03
2	Management Accounting (Introduction to Management Accounting)	03
3	Auditing - III	03
4	Taxation - III (Direct Taxes- II)	03
5	Wealth Management	03
2	<i>Ability Enhancement Courses (AEC)</i>	
2A	<i>Ability Enhancement Compulsory Course (AECC)</i>	
4	Information Technology in Accountancy - II	03
2B	<i>**Skill Enhancement Courses (SEC)</i>	
5	Any one course from the following list of the courses	02
3	<i>Core Courses (CC)</i>	
6	Business Law (Company Law) - III	03
7	Research Methodology in Accounting and Finance	03
Total Credits		20

<i>**List of Skill Enhancement Courses (SEC) for Semester IV (Any One)</i>	
1	Foundation Course in Management (Introduction to Management) - IV
2	Foundation Course – Contemporary Issues - IV
3	Foundation Course in NSS - IV
4	Foundation Course in NCC - IV
5	Foundation Course in Physical Education - IV

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
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1. Elective Courses (EC)

Financial Accounting (Special Accounting Areas) - IV

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Preparation of Final Accounts of Companies.	15
2	Redemption of Preference Shares	10
3	Redemption of Debentures	15
4	Ascertainment and Treatment of Profit Prior to Incorporation	10
5	Foreign Branch	10
Total		60

Sr. No.	Modules / Units
1	Preparation of Final Accounts of Companies
	<p>Relevant provisions of Companies Act related to preparation of Final Account (excluding cash flow statement)</p> <p>Preparation of financial statements as per Companies Act. (excluding cash flow statement)</p> <p>AS 1 in relation to final accounts of companies (disclosure of accounting policies)</p>
2	Redemption of Preference Shares
	<p>Provision of the Companies Act for redemption of Preference Shares (Sec 55 of the Companies Act, 2013), Companies (Share and Debentures) Rules.</p> <p>Methods of Redemption of fully paid up Preference Shares as per Companies Act, 2013: The proceed of a fresh issue of shares, the capitalisation of undistributed profits and a combination of both, calculation of minimum fresh issue to provide the fund for redemption,</p> <p>(Question on entries and/or Balance Sheet)</p> <p>Note: Companies governed by Section 133 of the Companies Act, 2013 and comply with the accounting standards prescribed for them. Hence, the balance in security premium account not to be utilised for premium payable on redemption of preference shares.</p>
3	Redemption of Debentures
	<p>Introduction : Provisions of Section 71 (1) and (4) of the Companies Act, 2013, Creation and investment of DRR including The Companies (Share Capital and Debentures) Rules, 2014, the methods of writing-off discount/loss on issue of debentures; Terms of issue of debentures</p> <p>Methods of redemption of debentures: By payment in lumpsum and by payment in instalments (excluding from by purchase in open market), Conversion.</p> <p>(Question on entries. ledgers and/or Balance Sheet and /or redemption of preference shares)</p>
4	Ascertainment and Treatment of Profit Prior to Incorporation
	<p>Principles for ascertainment</p> <p>Preparation of separate, combined and columnar Profit and Loss Account including different basis of allocation of expenses/ incomes</p>
5	Foreign Branch
	Conversion as per AS 11 and incorporation in HO accounts

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
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1. Elective Courses (EC)

**Management Accounting
(Introduction to Management Accounting)**

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Management Accounting	05
2	Analysis and Interpretation of Accounts	10
2	Financial Statement analysis: Ratio analysis	15
3	Cash Flow Analysis	15
4	Working Capital Management	15
	Total	60

Sr. No.	Modules / Units
1	Introduction to Management Accounting
	Meaning, Features, Scope, Importance, Functions, role of Management Accounting, Management Accounting Framework, Tools, Management Accounting and Financial Accounting
2	Analysis and Interpretation of Accounts
	a) Vertical Forms of Balance Sheet and Profit and Loss Account suitable for analysis b) Trend Analysis. c) Comparative Statement. d) Common Size Statement. NOTE: Practical Problems based on the above (a) to (d)
3	Financial Statement analysis: Ratio analysis
	Meaning of financial Statement Analysis, steps, Objective and types of Analysis. Ratio analysis: Meaning, classification, Du Point Chart, advantages and Limitations. Balance Sheet Ratios: i) Current Ratio ii) Liquid Ratio iii) Stock Working Capital Ratio iv) Proprietary Ratio v) Debt Equity Ratio vi) Capital Gearing Ratio Revenue Statement Ratios: i) Gross Profit Ratio ii) Expenses Ratio iii) Operating Ratio iv) Net Profit Ratio v) Net Operating Profit Ratio vi) Stock Turnover Ratio Combined Ratio i) Return on Capital employed (Including Long Term Borrowings) ii) Return on proprietor's Fund (Shareholders Fund and Preference Capital) iii) Return on Equity Capital iv) Dividend Payout Ratio v) Debt Service Ratio vi) Debtors Turnover vii) Creditors Turnover
4	Cash Flow Analysis
	Preparation of Cash Flow Statement with reference to Accounting Standard No .3. (Indirect method only))
5	Working Capital Management
	A. Concept, Nature of Working Capital , Planning of Working Capital B. Estimation / Projection of Working Capital Requirement in case of Trading and Manufacturing Organization C. Operating Cycle Practical Problems

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
Programme at Semester IV
with Effect from the Academic Year 2017-2018**

1. Elective Courses (EC)

Auditing - III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Audit Report	15
2	Audit under Computerized Information System Environment	15
3	Professional Ethics	15
4	Investigation and Due Diligence	15
Total		60

Sr. No.	Modules / Units
1	Audit Report
	Reporting requirement under the Companies Act Qualifications in Audit Report, Disclaimers in Audit Report Adverse Opinion, Disclosures, Reports & Certificate
2	Audit under Computerized Information System Environment
	Special aspects of CIS Audit Environment , Need for review of internal control especially procedure controls and facility controls Approach to audit in CIS environment Use of computer for internal and management audit purposes Audit tools, test packs, computerized audit programmes Special aspects in Audit of E-Commerce Transaction.
3	Professional Ethics
	Code of Ethics with special reference to the relevant provisions of The Chartered Accountant Act and the Regulations thereunder The Chartered Accountant Act Schedules Members who are deemed to be in Practice Significance of the Certificate of Practice Disabilities for purpose of Membership Disciplinary Procedure Professional Misconduct
4	Investigation and Due Diligence
	Introduction Auditing and Investigation Steps in Investigation Special aspects in connection with Business Investigation Types of Investigation (only introduction) Meaning of Due Diligence Purpose of Due Diligence

Note: Relevant Law/Statute/Rules in force in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuring examination after relevant year.

Revised Syllabus of Courses of B.Com. (Accounting and Finance)
Programme at Semester IV
with Effect from the Academic Year 2017-2018

1. Elective Courses (EC)

Taxation - III (Direct Taxes- II)

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Clubbing of Income	05
2	Set Off & Carry Forward of Losses	05
3	Computation of Tax liability of Individual & HUF	05
4	Computation of Income of Partnership Firm in Relation to Sec: 40(b) & Tax Thereon With Applicable Rate of Tax	15
5	Return of Income – Sec 139	05
6	Tax Deduction at Source Advance Tax Interest Payable	15
7	DTAA U/S 90 & 91	05
8	Tax Planning & Ethics in Taxation	05
Total		60

Sr. No.	Modules/ Units
1	Clubbing of Income - Section 60 to 65
2	Set Off & Carry Forward of Losses
	Sec: 70 – Set off Loss from one Source against Income from another Source under the Same Head of Income Sec: 71 – Set Off Loss from One Head against Income of another Head Sec: 71B – Carry Forward & Set off Losses from House Property Sec: 72 – Carry Forward & Set Off of Losses of Business Losses Sec: 73- Losses in Speculation Business Sec: 74- Loss under the head Capital Gains
3	Computation of Tax liability of Individual & HUF
4	Computation of Income of Partnership Firm in Relation to Sec: 40(b) & Tax Thereon With Applicable Rate of Tax
5	Return of Income – Sec 139
	Excluding u/s 139(4A), 139(4B), 139(4C) & 139 (4D)
6	Tax Deduction at Source Advance Tax U/S 207, 208, 209, 210 & 211 Interest Payable U/S 234A, 234B, 234C
	Basic Aspects of Deduction of Taxes at Source Sec: 192 – TDS on Salary Sec: 194A – TDS on Interest Sec: 194C – TDS on Contractor Sec: 194H – TDS on Commission Sec: 194I – TDS on Rent Sec: 194J – TDS on Professional Fees Advance Tax U/S 207, 208, 209, 210 & 211 Sec: 207 – Income Liable to Advance Tax Sec: 208 – Liability of Advance Tax Sec: 209 – Computation of Advance Tax Sec: 210 – Payment of Advance Tax by Assessee on His Own Account Sec: 211 – Due Dates of Payment of Advance Tax Interest Payable U/S 234A, 234B, 234C Sec: 234A – Interest for default in furnishing return of income Sec: 234B – Interest for default in payment of advance tax Sec: 234C – Interest for deferment of advance tax
7	DTAA U/S 90 & 91
8	Tax Planning & Ethics in Taxation – Basic Concepts

Note:

1. Relevant Law / Statute in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuing examinations after relevant year.
2. The syllabus is restricted to study of particular section/s, specifically mentioned rules and notifications only.

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
Programme at Semester IV
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1. Elective Courses (EC)

Wealth Management

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Wealth Management	10
2	Important Numerical Concepts	20
3	Wealth Management Process	15
4	Operational Aspects of Wealth Management	15
Total		60

Sr. No.	Modules / Units
1	Introduction to Wealth Management
	Definition Wealth management and its evolution Wealth management process and phases Nature and structure of Primary and Secondary capital market Comparison between various options for investing and Risk & return analysis Role of Wealth Manager : Obligation and Responsibilities of wealth manager Qualification , Capital requirement, certification to become investment advisor Code of conduct and ethics in providing financial advice
2	Important Numerical Concepts
	Simple interest, Compound interest, Discounted cash flow and installment calculation Correlation, Standard deviation, covariance & Beta of portfolio Share valuation Bond valuation
3	Wealth Management Process
	Developing a Wealth Management Plan Essentials of a Comprehensive Wealth Plan Analysis of Different financial Products for investment Risk profiling of the client Portfolio construction Modern Portfolio Theory for constructing a portfolio
4	Operational Aspects of wealth management
	Types of investors PAN and KYC process Dematerialization and rematerialization of securities Power of Attorney Account opening Process of Non Resident Documentation of financial advisor

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
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2A. Ability Enhancement Courses (AEC)

Information Technology in Accountancy - II

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Business Process	15
2	Computerized accounting system	20
3	Concept of MIS Reports in Computer Environment	15
4	IT and Auditing	10
Total		60

Sr. No.	Modules / Units
1	Business Process
	<p>Introduction, Definition and Meaning of business process Flow of business process for accounting, purchase, sales and finance Classification of business processes Introduction, Definition and Meaning of Business Process Management Principles and practices of Business Process Management Business Process Management life cycle Theories of Business Management Process Implementation of Business process Management – need, key factors and importance Automation of business Processes – benefits, risks, challenges Accounting systems automation IT and Business Process Management Information systems – Meaning, Use of IT in accountancy</p>
2	Computerized accounting system
	<p>Introduction and meaning Uses and Benefits Role Need and requirements of computerized accounting Basic requirements of computerized accounting system Limitations of computerized accounting system Understand the development and design of a computerized accounting system; determining how the accounting data will be processed, i.e. what accounts and books are needed and what is the desired output i.e. financial reports and other reports. Accounting Software Introduction and meaning Advantages of accounting software Uses of Accounting software Various accounting softwares Accounting software TALLY – Accounting and reports</p>
3	Concept of MIS Reports in Computer Environment
	<p>Introduction Concept of MIS Need for MIS Characteristic of MIS Outputs of MIS Role of MIS Guidelines for Developing MIS reports Functional Aspects of the MIS: Problems in MIS Knowledge required for studying MIS MIS and Computer</p>
4	IT and Auditing
	<p>Need and importance of IT in auditing Auditing in IT environment</p>

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Programme at Semester IV
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2B. Skill Enhancement Courses (SEC)

**Foundation Course in Management
(Introduction to Management) - IV**

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Basic Management Concepts	05
2	Planning	10
3	Organising	10
4	Staffing	10
5	Directing and Controlling	10
	Total	45

Sr. No.	Modules / Units
1	Introduction to Basic Management Concepts
	Introduction to Management, Definition of Management Nature of Management Objectives of Management Administration vs Management Levels of Management Principles of Management
2	Planning
	Definition and Importance of Planning Process of Planning Limitations of Planning Features of Sound Planning Features and process of decision making
3	Organising
	Definition, nature and significance Process of organisation Principles of organisation Formal and Informal organisation - features, advantages and disadvantages Centralisation and decentralisation – factors, merits and demerits Departmentation and Delegation
4	Staffing
	Meaning, Importance of Staffing Recruitment and its sources Selection procedure Distinction between Recruitment and Selection Employment tests and types of Interview
5	Directing and Controlling
	Meaning and Importance of directing Principles of Directing Leadership traits and Styles Motivation – Importance and Factors Co-ordination – Meaning, features and Importance Meaning and steps in controlling Essentials of a good control system

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2B. Skill Enhancement Courses (SEC)

Foundation Course- Contemporary Issues- IV

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Significant, Contemporary Rights of Citizens	12
2	Approaches to understanding Ecology	11
3	Science and Technology –II	11
4	Introduction to Competitive Exams	11
Total		45

Sr. No.	Modules / Units
1	Significant, Contemporary Rights of Citizens
	<p>A. Rights of Consumers-Violations of consumer rights and important provisions of the Consumer Protection Act, 2016; Other important laws to protect consumers; Consumer courts and consumer movements. (3 Lectures)</p> <p>B. Right to Information- Genesis and relation with transparency and accountability; important provisions of the Right to Information Act, 2005; some success stories. (3 Lectures)</p> <p>C. Protection of Citizens'/Public Interest-Public Interest Litigation, need and procedure to file a PIL; some landmark cases. (3 Lectures)</p> <p>D. Citizens' Charters, Public Service Guarantee Acts. (3 Lectures)</p>
2	Approaches to understanding Ecology
	<p>A. Understanding approaches to ecology- Anthropocentrism, Biocentrism and Eco centrism, Ecofeminism and Deep Ecology. (3 Lectures)</p> <p>B. Environmental Principles-1: the sustainability principle; the polluter pays principle; the precautionary principle. (4 Lectures)</p> <p>C. Environmental Principles-2: the equity principle; human rights principles; the participation principle. (4 Lectures)</p>
3	Science and Technology –II
	<p>Part A:Some Significant Modern Technologies, Features and Applications (7 Lectures)</p> <p>i. Laser Technology- Light Amplification by Stimulated Emission of Radiation; use of laser in remote sensing, GIS/GPS mapping, medical use.</p> <p>ii. Satellite Technology- various uses in satellite navigation systems, GPS, and imprecise climate and weather analyses.</p> <p>iii. Information and Communication Technology- convergence of various technologies like satellite, computer and digital in the information revolution of today's society.</p> <p>iv. Biotechnology and Genetic engineering- applied biology and uses in medicine, pharmaceuticals and agriculture; genetically modified plant, animal and human life.</p> <p>v. Nanotechnology- definition: the study, control and application of phenomena and materials at length scales below 100 nm; uses in medicine, military intelligence and consumer products.</p> <p>Part B:Issues of Control, Access and Misuse of Technology. (4 Lectures)</p>

Sr. No.	Modules / Units
4	Introduction to Competitive Exams
	<p>Part A. Basic information on Competitive Examinations- the pattern, eligibility criteria and local centres:</p> <ul style="list-style-type: none"> i. Examinations conducted for entry into professional courses - Graduate Record Examinations (GRE), Graduate Management Admission Test (GMAT), Common Admission Test (CAT) and Scholastic Aptitude Test (SAT). ii. Examinations conducted for entry into jobs by Union Public Service Commission, Staff Selection Commission (SSC), State Public Service Commissions, Banking and Insurance sectors, and the National and State Eligibility Tests (NET / SET) for entry into teaching profession. <p>Part B. Soft skills required for competitive examinations- (7 Lectures)</p> <ul style="list-style-type: none"> i. Information on areas tested: Quantitative Ability, Data Interpretation, Verbal Ability and Logical Reasoning, Creativity and Lateral Thinking ii. Motivation: Concept, Theories and Types of Motivation iii. Goal-Setting: Types of Goals, SMART Goals, Stephen Covey's concept of human endowment iv. Time Management: Effective Strategies for Time Management v. Writing Skills: Paragraph Writing, Report Writing, Filing an application under the RTI Act, Consumer Grievance Letter.

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12. Singh, Ashok Kumar, *Science and Technology for Civil Service Examination*, Tata McGraw Hill, New Delhi, 2012.
13. Thorpe, Edgar, *General Studies Paper I Volume V*, Pearson, New Delhi, 2017.

Projects / Assignments (for Internal Assessment)

- i. Projects/Assignments should be drawn for the component on Internal Assessment from the topics in **Module 1 to Module 4**.
- ii. Students should be given a list of possible topics - at least 3 from each Module at the beginning of the semester.
- iii. The Project/Assignment can take the form of Street-Plays / Power-Point Presentations / Poster Exhibitions and similar other modes of presentation appropriate to the topic.
- iv. Students can work in groups of not more than 8 per topic.
- v. Students must submit a hard / soft copy of the Project / Assignment before appearing for the semester end examination.

QUESTION PAPER PATTERN (Semester III)

The Question Paper Pattern for Semester End Examination shall be as follows:

TOTAL MARKS: 75

DURATION: 150 MINUTES

QUESTION NUMBER	DESCRIPTION	MARKS ASSIGNED
1	<ol style="list-style-type: none">i. Question 1 A will be asked on the meaning / definition of concepts / terms from all Modules.ii. Question 1 B will be asked on the topic of the Project / Assignment done by the student during the Semesteriii. In all 8 Questions will be asked out of which 5 have to be attempted.	<ol style="list-style-type: none">a) Total marks: 15b) For 1 A, there will be 3 marks for each sub-question.c) For 1 B there will be 15 marks without any break-up.
2	Descriptive Question with internal option (A or B) on Module 1	15
3	Descriptive Question with internal option (A or B) on Module 2	15
4	Descriptive Question with internal option (A or B) on Module 3	15
5	Descriptive Question with internal option (A or B) on Module 4	15

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2B. Skill Enhancement Courses (SEC)

Foundation Course in NSS - IV

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Entrepreneurship Development	10
2	Rural Resource Mobilization	10
3	Ideal village & stake of GOS and NGO	13
4	Institutional Social Responsibility and modes of Awareness	12
Total		45

Sr. No.	Modules / Units
1	Entrepreneurship Development
	UNIT - I Entrepreneurship development Entrepreneurship development- its meaning and schemes Government and self-employment schemes for Entrepreneurship development UNIT - II - Cottage Industry Cottage Industry- its meaning, its role in development process Marketing of cottage products and outlets
2	Rural Resource Mobilization
	UNIT - I - Rural resource mobilization- A case study of eco-village, eco-tourism, agro-tourism UNIT - II - Micro financing with special reference to self-help groups
3	Ideal village & stake of GOS and NGO
	UNIT - I - Ideal village Ideal village- the concept Gandhian Concept of Ideal village Case studies on Ideal village UNIT - II - Government Organisations(GOs) and Non-Government Organisations (NGOs) The concept and functioning
4	Institutional Social Responsibility and modes of Awareness
	UNIT - I - Institutional Social Responsibilities Concept and functioning- case study of adapted village UNIT - II - Modes of awareness through fine Arts Skills Basics of performing Arts as tool for social awareness, street play, creative dance, patriotic song, folk songs and folk dance. Rangoli, posters, flip charts, placards, etc.

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2B. Skill Enhancement Courses (SEC)

Foundation Course in NCC - IV

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Disaster Management, Social Awareness and Community Development	10
2	Health and Hygiene	10
3	Drill with Arms	05
4	Weapon Training	10
5	Specialized Subject: Army Or Navy Or Air	10
Total		45

Sr. No.	Modules / Units
1	Disaster Management, Social Awareness and Community Development
	<p>Disaster Management: Desired outcome: The student shall gain basic information about civil defence organisation / NDMA & shall provide assistance to civil administration in various types of emergencies during natural / manmade disasters</p> <ul style="list-style-type: none"> • Fire Services & Fire fighting • Assistance during Natural / Other Calamities: Flood / Cyclone/ Earth Quake/ Accident etc. <p>Social Awareness and Community Development: Desired outcome: The student shall have an understanding about social evils and shall inculcate sense of whistle blowing against such evils and ways to eradicate such evils.</p> <ul style="list-style-type: none"> • NGOs: Role & Contribution • Drug Abuse & Trafficking • Corruption • Social Evil viz. Dowry/ Female Foeticide/Child Abuse & trafficking etc. • Traffic Control Org. & Anti drunken Driving
2	Health and Hygiene
	<p>Desired outcome: The student shall be fully aware about personal health and hygiene lead a healthy life style and foster habits of restraint and self awareness.</p> <ul style="list-style-type: none"> • Hygiene and Sanitation (Personal and Food Hygiene) • Basics of Home Nursing & First-Aid in common medical emergencies • Wound & Fractures
3	Drill with Arms
	<p>Desired outcome: The students will demonstrate the sense of discipline, improve bearing, smartness, and turnout, and develop the quality of immediate and implicit obedience of orders, with good reflexes.</p> <ul style="list-style-type: none"> • Getting on Parade with Rifle and Dressing at the Order • Dismissing and Falling Out • General Salute, Salami Shastra • Squad Drill • Short/Long tail from the order and vice-versa • Examine Arms
4	Weapon Training
	<p>Desired outcome: The student shall have basic knowledge of weapons and their use and handling.</p> <ul style="list-style-type: none"> • The lying position, Holding and Aiming- I • Trigger control and firing a shot • Range procedure and safety precautions • Theory of Group and Snap Shooting • Short range firing, Aiming- II -Alteration of sight

Sr. No.	Modules / Units
5	Specialized Subject: Army Or Navy Or Air
	<p>Army Desired outcome: The training shall instill patriotism, commitment and passion to serve the nation motivating the youth to join the defence forces. It will also acquaint, expose & provide basic knowledge about armed, naval and air-force subjects</p> <p>A. Map reading</p> <ul style="list-style-type: none"> • Setting a Map, finding North and own position • Map to ground, Ground to Map • Point to Point March <p>B. Field Craft and Battle Craft</p> <ul style="list-style-type: none"> • Observation, Camouflage and Concealment • Field Signals • Types of Knots and Lashing <p>C. Introduction to advanced weapons and role of technology (To be covered by the guest lecturers)</p> <p style="text-align: center;">OR</p> <p>Navy</p> <p>A. Naval Communication</p> <ul style="list-style-type: none"> • Semaphore <ul style="list-style-type: none"> ▪ Phonetic Alphabets ▪ Radio Telephony Procedure ▪ Wearing of National Flag, Ensign and Admiral's Flag. <p>B. Seamanship</p> <ul style="list-style-type: none"> • Anchor work <ul style="list-style-type: none"> ▪ Types of Anchor, Purpose and Holding ground • Boat work <ul style="list-style-type: none"> ▪ Demonstrate Rigging a whaler and enterprise boat- Parts of Sail and Sailing Terms ▪ Instructions in Enterprise Class Board including theory of Sailing, Elementary Sailing Tools ▪ Types of Power Boats Used in the Navy and their uses, Knowledge of Anchoring, Securing and Towing a Boat <p>C. Introduction to advanced weapons and role of technology (To be covered by the guest lecturers)</p>

Sr. No.	Modules / Units
	<p style="text-align: center;"><i>OR</i></p> <p>Air</p> <p>A. Air frames</p> <ul style="list-style-type: none"> • Fuselage • Main and Tail Plain <p>B. Instruments</p> <ul style="list-style-type: none"> • Introduction to RADAR <p>C. Aero modelling</p> <ul style="list-style-type: none"> • Flying/ Building of Aero models <p>D. Introduction to advanced weapons and role of technology (To be covered by the guest lecturers)</p>

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2B. Skill Enhancement Courses (SEC)

Foundation Course in Physical Education - III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Stress Management	10
2	Awards, Scholarship & Government Schemes	10
3	Yoga Education	10
4	Exercise Scheduling/Prescription	15
Total		45

Sr. No.	Modules / Units
1	Stress Management
	<ul style="list-style-type: none"> • Meaning & concept of Stress • Causes of Stress • Managing Stress • Coping Strategies
2	Awards, Scholarship & Government Schemes
	<ul style="list-style-type: none"> • State & National level Sports Awards • State Sports Policy & Scholarship Schemes • National Sports Policy & Scholarship Schemes • Prominent Sports Personalities
3	Yoga Education
	<ul style="list-style-type: none"> • Differences between Yogic Exercises & non- Yogic exercises • Contribution of Yoga to Sports • Principles of Asanas & Bandha • Misconceptions about Yoga
4	Exercise Scheduling/Prescription
	<ul style="list-style-type: none"> • Daily Routine Prescription. • Understanding Activity level & Calorie requirement. • Adherence & Motivation for exercise. • Impact of Lifestyle on Health

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3. Core Courses (CC)

Business Law (Company Law) - III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Definitions	10
2	Incorporation of companies	20
3	Public Offer	10
4	Private Placement	10
5	Share Capital and Debentures	10
Total		60

Sr. No.	Modules / Units
1	Definitions
	Section 2 Clause (2) – Accounting Standard Clause (7) – Auditing Standard Clause (13) – Books of Accounts Clause (31) – Deposit Clause (41) – Financial Year Clause (42) – Foreign Company Clause (47) – Independent Director Clause (48) – Indian Depository Receipts Clause (62) – One Person Company Clause (85) – Small Company
2	Incorporation of companies
	Section 3 to Section 20
3	Public Offer
	Sections 23, 25 to 28, 33, 35, 39
4	Private Placement
	Section 42
5	Share Capital and Debentures
	Sections 43, 46, 47, 52 to 56, 61 to 72

Note: *Relevant Law/Statute/Rules in force in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuring examination after relevant year.*

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3. Core Courses (CC)

Research Methodology in Accounting and Finance

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Research	15
2	Research Design in Accounting and Finance	15
3	Data Collection and Processing	15
4	Interpretation and Report Writing	15
Total		60

Sr. No.	Modules / Units
1	Introduction to Research
	Introduction and meaning of research, Objectives of research, Features and Importance of research in Accounting and Finance, Objectives and Types of research - Basic, Applied, Descriptive, Analytical and Empirical Research. Formulation of research problem : Meaning and Selection Review of Literature
2	Research Design in Accounting and Finance
	Meaning of Introduction, Need, and Good research design. Hypothesis: Formulation, Sources, Importance and Types Different Research designs
3	Data Collection and Processing
	Data Collection: Introduction and meaning, types of data Primary data: Observation, Experimentation, Interview, Schedules, Survey, Questionnaires, Limitations of Primary data Secondary data: Sources and Limitations Factors affecting the choice of method of data collection. Sampling: Significance, Methods, Factors determining sample size Data Presentation: Significance in Research, Stages in Data Processing: Editing, Coding, Classification, Tabulation, Graphic Presentation Statistical Analysis: Tools and Techniques, Measures of Central Tendency, Measures of Dispersion, Correlation Analysis and Regression Analysis. Use of computer and internet in data collection and processing
4	Interpretation and Report Writing
	Meaning and techniques of interpretation, Research Report Writing: Importance, Essentials, Structure/ layout, Types

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Reference Books

Reference Books
Financial Accounting (Special Accounting Areas) III
<ul style="list-style-type: none">• <i>Introduction to Accountancy</i> by T.S. Grewal, S. Chand and Company (P) Ltd., New Delhi• <i>Advance Accounts</i> by Shukla and Grewal, S. Chand and Company (P) Ltd., New Delhi• <i>Advanced Accountancy</i> by R.L Gupta and M. Radhaswamy, S. Chand and Company (P) Ltd., New Delhi• <i>Modern Accountancy</i> by Mukherjee and Hanif, Tata Mc. Grow Hill and Co. Ltd., Mumbai• <i>Financial Accounting</i> by Lesile Chandwichk, Pentice Hall of India Adin Bakley (P) Ltd., New Delhi• <i>Financial Accounting for Management</i> by Dr. Dinesh Harsalekar, Multi-Tech. Publishing Co. Ltd., Mumbai• <i>Financial Accounting</i> by P.C. Tulsian, Pearson Publications, New Delhi• <i>Accounting Principles</i> by R.N. Anthony and J.S. Reece, Richard Irwin, Inc• <i>Financial Accounting</i> by Monga, J.R. Ahuja, Girish Ahuja and Ashok Shehgal, Mayur Paper Back, Noida• <i>Compendium of Statement and Standard of Accounting</i>, ICAI• <i>Indian Accounting Standards</i>, Ashish Bhattacharya, Tata Mc. Grow Hill and Co. Ltd., Mumbai• <i>Financial Accounting</i> by Williams, Tata Mc. Grow Hill and Co. Ltd., Mumbai• <i>Company Accounting Standards</i> by Shrinivasan Anand, Taxman, New Delhi• <i>Financial Accounting</i> by V. Rajasekaran, Pearson Publications, New Delhi• <i>Introduction to Financial Accounting</i> by Horngren, Pearson Publications, New Delhi• <i>Financial Accounting</i> by M. Mukherjee and M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi• <i>Financial Accounting a Managerial Perspective</i>, Varadraj B. Bapat, Mehul Raithatha, Tata McGraw Hill Education Pvt. Ltd., New Delhi
Cost Accounting (Methods of Costing) II
<ul style="list-style-type: none">• <i>Lectures on Costing</i> by Swaminathan: S. Chand and Company (P) Ltd., New Delhi• <i>Cost Accounting</i> by C.S. Rayudu, Tata Mc. Grow Hill and Co. Ltd., Mumbai• <i>Cost Accounting</i> by Jawahar Lal and Seema Srivastava, Tata Mc. Grow Hill and Co. Ltd., Mumbai• <i>Cost Accounting</i> by Ravi M. Kishore, Taxmann Ltd., New Delhi• <i>Principles and Practices of Cost Accounting</i> by N.K. Prasad, Book Syndicate Pvt. Ltd., Calcutta• <i>Cost Accounting Theory and Practice</i> by B.K. Bhar, Tata Mc. Grow Hill and Co. Ltd., Mumbai• <i>Cost Accounting Principles and Practice</i> by M.N. Arora, Vikas Publishing House Pvt. Ltd., New Delhi• <i>Advanced Cost and Management Accounting: Problems and Solutions</i> by V.K. Saxena and C.D. Vashist, S. Chand and Company (P) Ltd., New Delhi• <i>Cost Accounting</i> by S.P. Jain and K.L. Narang, Kalyani Publishers, Ludhiana• <i>Modern Cost and Management Accounting</i> by M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi
Auditing (Techniques of Auditing and Audit Procedures)- II
<ul style="list-style-type: none">• <i>Contemporary Auditing</i> by Kamal Gupta published by Tata McGraw Hills• <i>A Handbook of Practical Auditing</i> by B N Tandon published by S Chand & Co. New Delhi• <i>Fundamentals of auditing</i> by Kamal Gupta and Ashok Arora published by Tata McGraw Hills• <i>Textbook of Auditing</i> by Batra and Bagradia published by Tata McGraw Hills• <i>Practical Auditing</i> by S V Ghatalia published by Spicer & Pegler

Reference Books

Taxation II (Direct Taxes – I)

- *Direct Taxes Law & Practice* by V.K. Singhania - Taxman
- *Systematic Approach to Direct Tax* by Ahuja & Gupta - Bharat Law House
- *Income Tax Ready Reckoner* by Dr .V.K. Singhania - Taxman
- *Direct Tax Laws* by T.N. Manoharan - Snow White

Principles and Practices of Banking

- *Bank Financial Management Paperback – 2010* by IIBF (Indian Institute of Banking and Finance)
- *Money Banking And Finance Paperback – 2009* by N K Sinha
- *Principles and Practices of Banking Paperback – 2015* by IIBF (Indian Institute of Banking and Finance)
- *Principles and Practices of Banking 11 edition Paperback – 2015* by N S Toor, Arun Deep Toor
- *Principles Of Banking (With Case Studies) Hardcover – 2009* by Rakesh Kumar
- *Modern Banking In India , Gupta*

Foundation Course - III

- *Social and Economic Problems in India*, Naseem Azad, R Gupta Pub (2011)
- *Indian Society and Culture*, Vinita Padey, Rawat Pub (2016)
- *Social Problems in India*, Ram Ahuja, Rawat Pub (2014)
- *Faces of Feminine in Ancient , medieval and Modern India*, Mandakranta Bose Oxford University Press
- *National Humana rights commission- disability Manual*
- *Rural, Urban Migration : Trends, challenges & Strategies*, S Rajagopalan, ICAFI- 2012
- *Regional Inequilities in India* Bhat L SSSRD- New Delhi
- *Urbanisation in India: Challenges, Opportunities & the way forward*, I J Ahluwalia, Ravi Kanbur, P K Mohanty, SAGE Pub (2014)
- *The Constitution of India*, P M Bakshi 2011
- *The Problems of Linguistic States in India*, Krishna Kodesia Sterling Pub
- *Politics in India: structure, Process and Policy* Subrata Mitra, Routledge Pub
- *Politics in India*, Rajani Kothari, Orient Blackswan
- *Problems of Communalism in india*, Ravindra Kumar Mittal Pub
- *Combating communalism in India: Key to National Integration*, Kawal Kishor Bhardwaj, Mittal Pub

Foundation Course in NSS III

- *National Service Scheme Manual (Revised) 2006*, Government of India, Ministry of Youth Affairs and Sports, New Delhi.
- *University of Mumbai National Service Scheme Manual 2009.*
- *Avhan Chancellor's Brigade - NSS Wing, Training camp on Disaster Preparedness Guidelines, March 2012*
- *Rashtriya Seva Yojana Sankalpana - Prof. Dr. Sankay Chakane, Dr. Pramod\Pabrekar, Diamond Publication, Pune*
- *National Service Scheme Manual for NSS District Coordinators*, National Service Scheme Cell, Dept. of Higher and Technical Education, Mantralaya,
- *Annual report of National Service Scheme (NSS) published by Dept. of Higher and Technical Education, Mantralaya,*
- *NSS Cell, Dept. of Higher and Technical Education, Mantralaya, UTKARSHA- Socio and cultural guidelines*
- *Case material as a Training Aid for Field Workers*, Gurmeet Hans.
- *Social service opportunities in hospitals*, Kapil K. Krishnan, TISS
- *New Trends in NSS, Research papers published by University of Pune*
- *ANOOGUNJ Research Journal*, published by NSS Unit C. K. Thakur college
- *Training Manual for Field Work published by RGNIYD, Chreeperumbudur*
- *Prof. Ghatole R.N. Rural Social Science and Community Development.*

Reference Books

- *Purushottam Sheth, Dr. Shailaja Mane, National Service Scheme*
- *Joint programme of National Service Scheme, University of Mumbai & DISHA - DEEPSHIKHA Projects, Nair Hospital, 2011-12*
- *National Service Scheme in India: A Case study of Karnataka, M. B. Dishad, Trust Publications, 2001*
- <http://www.thebetterindia.com/140/national-service-scheme-nss/>
- <http://en.wikipedia.org/wiki/national-service-scheme> 19=<http://nss.nic.in/adminstruct>
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Foundation Course in NCC - III

- *Cadet's Hand book – Common subject..all wings, BY DG NCC, New Delhi.*
- *Cadet's Hand book – Specialised Subjects, Army, Navy, Air-force, BY DG NCC, New Delhi.*
- *NCC OTA Precise, BY DG NCC, New Delhi.*
- *"AVAN" Model of Disaster Mang., Vinayak Dalvie, Proceedings of Int. Conf. on Urban Plan. and Env Strat & Challenges, Elphinstone College, Jan 2007.*
- *Humanistic Tradition of India, N.L.Gupta, Mohit Publication, New Delhi*
- *Social psychology, Baron & Byrne, Pearson Publication, 12th Edition self awareness know yourself / insight (110) Group & Individuals (374) Group discussion*
- *Chanakya's 7 Secrets of Leadership, Radhakrishanan Pillai and D.Shivnandhan, Jaico*
- *Social Psychology: Understanding Human Interaction, Baron, Robert A., (302/BAR/BYR), 7th Edition*
- *Seven Habits of Highly Effective People., Covey , Stephen*
- *The Habit of Winning., Iyer , Prakash, Penguin , India ; 2011*
- *The Goal, Goldratt , Eliyahu, The Northriver press ; 1994*
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- *Freedom of Religion and The Indian Judiciary, Bachal V.M. , Shubhada Saraswat, (362P)*
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- *Saha Soneri Pane, Vinayak D. Savarkar*
- *Environmental Biology and Toxicology, P.D. Sharma., Rastogi Publication*
- *Environmental Science, S.C. Santra, New Central Book Agency*
- *National Cadet Corps (India), Lambert M. Surhone, Mariam T. Tennoe, Susan F. Henssonow, Betascript Publishing, 2011*
- *National Cadet Corps, Youth in Action (Google eBook), National Cadet Corps (India), Lancer Publishers, 2003*
- *Youth in Step: History of the National Cadet Corps, V. Longer, Lancer international, 1983 Original from the University of Michigan*
- *National Cadet Corps of India, Man Mohan Sharma, Vision Books, 1980 Original from the University of Michigan*
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- *Cadet Corps in India: Its Evolution and Impact, Satis Chandra Maikap, Darbari Udyog, 1979 Original from the University of California*
- *National Cadet Corps: 100 Years of Distinction, National Cadet Corps (Singapore), NCC*
- *The NCC, Singapore, National Cadet Corps Council, National Cadet Corps Council*
- *Grooming Tomorrow's Leaders: National Cadet Corps, 1917-2006, R.S. Chhettri, Lancer Publishers, 2006*
- *National Civil Defence Cadet Corps, Lambert M. Surhone, Mariam T. Tennoe, Susan F. Henssonow, Betascript Publishing, 2011*
- *Discovery of India, Jawaharlal Nehru*
- *Health and Hygiene, Manoj. J.S., Agra University Publication*
- *Yoga for Healing, Venkateswaran P.S., Bombay:- Jaico Publishing House 1989*

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- *Yoga Illustrated*, New Delhi, Ministry of Information and Broadcasting, 1995
- *Yoga Practice*, 1972, Shivnande Swami, Mumbai:- D.B. Taraporewala 1972
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- *Sustainable Development (An Alternative Paradigm)*, Satpathy , N., Karnavati Publications , Ahmedabad
- *Global Partners for Sustainable Development*, Pachauri R.K & Srivastava L., Tata Energy Research Institute, New Delhi ; 1994, 1998
- *Ecology and the Politics of survival : Conflict over Natural Resources in India*, Shiva , Vandana, Sage Publications , California , 1991

Foundation Course in Physical Education - III

- *Lippian Cott Williams and Wilkins* 2006.
- *American College of Sports Medicine, ACSM's, Guidelines for Exercise Testing and Prescription. (2013) Ninth Edition*, Lippian Cott Williams and Wilkins.
- *American College of Sports Medicine, ACSM's Resource Manual for Guidelines for Exercise Testing and Prescription. (2006) 5th Ed.*, Lippian Cott Williams and Wilkins, 2006.
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- *Daryl S. (1994). Introduction to physical education, fitness and sports (2nd ed.). London: Mayfield publishing company.*
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Reference Books

Information Technology in Accountancy - I

- *Fundamentals of Computers – Rajaram V – Prentice Hall*
 - *Computer today (3rd edition) – Sanders, Donald H – McGraw Hill*
 - *Computers and Common sense – Hunt, Roger and Shelly John – Prentice Hall*
 - *Computers – Subramaniam N – Wheeler*
 - *Introduction to Computers – Xavier C. – New Age*
 - *Computer in Business – Sanders D – McGraw Hill*
 - *Computers and Information Management – S C Bhatnagar & V Ramant – Prentice Hall*
 - *Internet for Business – Brummer, Lavrej – Cambridge*
 - *E-mail for Everyone – Leon Alexis & Leon – Methews*
- Basic Computer Programmes for Business – Sternberg C – New Jersey Hayden*

Business Law (Business Regulatory Framework) -II

- *An introductory guide to Central Labour Legislation – W A Dawson*
- *Industrial Law – P L Malik*
- *Personnel Management and Industrial relations – Kapur S , Punia B – Gurgaon SK*
- *Labour participation in Management – Mhetras V Manaklals*
- *Law of Partnership, by J P Singhal (Author)*
- *Partnership Act, 1932 with State Amendments*
- *The Law Of Partnership, P.C. Markanda*
- *Indian Partnership Act 1932*
- *Limited Liability Partnership Act 2008*

Business Economics

- *Ackley.G (1976), Macro Economic Theory and Policy, Macmillan Publishing Co. New York*
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Reference Books

Reference Books
Financial Accounting (Special Accounting Areas) IV
<ul style="list-style-type: none"> • <i>Introduction to Accountancy</i> by T.S. Grewal, S. Chand and Company (P) Ltd., New Delhi • <i>Advance Accounts</i> by Shukla and Grewal, S. Chand and Company (P) Ltd., New Delhi • <i>Advanced Accountancy</i> by R.L Gupta and M. Radhaswamy, S. Chand and Company (P) Ltd., New Delhi • <i>Modern Accountancy</i> by Mukherjee and Hanif, Tata Mc. Grow Hill and Co. Ltd., Mumbai • <i>Financial Accounting</i> by Lesile Chandwichk, Pentice Hall of India Adin Bakley (P) Ltd., New Delhi • <i>Financial Accounting for Management</i> by Dr. Dinesh Harsalekar, Multi-Tech. Publishing Co. Ltd., Mumbai • <i>Financial Accounting</i> by P.C. Tulsian, Pearson Publications, New Delhi • <i>Accounting Principles</i> by R.N. Anthony and J.S. Reece, Richard Irwin, Inc • <i>Financial Accounting</i> by Monga, J.R. Ahuja, Girish Ahuja and Ashok Shehgal, Mayur Paper Back, Noida • <i>Financial Accounting</i> by Williams, Tata Mc. Grow Hill and Co. Ltd., Mumbai • <i>Financial Accounting</i> by V. Rajasekaran, Pearson Publications, New Delhi • <i>Introduction to Financial Accounting</i> by Horngren, Pearson Publications, New Delhi • <i>Financial Accounting</i> by M. Mukherjee and M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi • <i>Financial Accounting a Managerial Perspective</i>, Varadraj B. Bapat, Mehul Raithatha, Tata McGraw Hill Education Pvt. Ltd., New Delhi
Management Accounting (introduction to Management Accounting)
<ul style="list-style-type: none"> • <i>Cost Management</i> by Saxena & Vashist • <i>Cost & Management Accounting</i> by Ravi N.Kishor ,Publication Taxmonth • <i>Essential of Management Accounting</i> by P.N.Reddy,Himalaye • <i>Advanced Management Accounting</i> by Robert S Kailar,Holl • <i>Financial Of Management Accounting</i> by S.R.Varshney,Wisdom • <i>Introduction Of Management Accounting</i> by Charbs T Horngren, PHI Learning • <i>Management Accounting</i> by I.m.Pandey, Vikas • <i>Cost & Management Accounting</i> by D.K.Mattal,Galgotia • <i>Management Accounting</i> by Khan & Jain,Tata Megaw • <i>Management Accounting</i> by R.P.Resstogi
Auditing III
<ul style="list-style-type: none"> • <i>Contemporary Auditing</i> by Kamal Gupta, Tata Mc-Graw Hill, New Delhi • <i>A Hand-Book of Practical Auditing</i> by B.N. Tandon, S. Chand and Company, New Delhi • <i>Fundamentals of Auditing</i> by Kamal Gupta and Ashok Arora, Tata McGraw Hill, New Delhi • <i>Auditing: Principles and Practice</i> by Ravinder Kumar, Virender Sharma, PHI Learning Pvt. Ltd., New Delhi • <i>Auditing and Assurance for CA IPCC</i> by Sanjib Kumar Basu, Pearson Education, New Delhi • <i>Contemporary Auditing</i> by Kamal Gupta, McGrow Hill Education Pvt. Ltd., New Delhi • <i>Fundamentals of Auditing</i> by Kamal Arora and Ashok Gupta, Tata McGraw Hill, New Delhi
Taxation III (Direct Taxes II)
<ul style="list-style-type: none"> • <i>Direct Taxes Law & Practice</i> by V.K. Singhanian - Taxman • <i>Systematic Approach to Direct Tax</i> by Ahuja & Gupta - Bharat Law House • <i>Income Tax Ready Reckoner</i> by Dr .V.K. Singhanian - Taxman • <i>Direct Tax Laws</i> by T.N. Manoharan - Snow White

Wealth Management

- *Wealth Engine: Indian Financial Planning and Wealth Management Handbook* by Sankaran S
- *WEALTH MANAGEMENT*, by N/A Dun & Bradstreet

Information Technology in Accountancy II

- *Fundamentals of Computers – Rajaram V – Prentice Hall*
- *Computer today (3rd edition) – Sanders, Donald H – McGraw Hill*
- *Computers and Common sense – Hunt, Roger and Shelly John – Prentice Hall*
- *Computers – Subramaniam N – Wheeler*
- *Introduction to Computers – Xavier C. – New Age*
- *Computer in Business – Sanders D – McGraw Hill*
- *Computers and Information Management – S C Bhatnagar & V Ramant – Prentice Hall*
- *Internet for Business – Brummer, Lavrej – Cambridge*
- *E-mail for Everyone – Leon Alexis & Leon – Methews*
- *Basic Computer Programmes for Business – Sternberg C – New Jersey Hayden*

Foundation Course in Management (Introduction to Management) - IV

- *Essentials of Management* by Koontz H & W published by McGraw Hill
- *Principles of Management* by Ramaswamy published by Himalaya
- *Management Concept and Practice* by Hannagain T published by McMillan
- *Basic Managerial Skills for All* by McGrath E.H published by Prentice Hall of India
- *Management – Text and Cases* by VSP Rao published by Excel Books
- *Essentials of Management* by Massie Joseph published by Prentice Hall of India
- *Management: Principles and Guidelines* by Thomas Duening & John Ivancevich published by Biztantra
- *Management Concepts and Strategies* by J S Chandran published by Vikas Publishing House
- *Principles of Management* by Tripathy P C published by Tata McGraw Hill
- *Principles of Management: Theory and Practice* by Sarangi S K published by V M P Publishers

Foundation Course in NSS IV

- *National Service Scheme Manual (Revised) 2006, Government of India, Ministry of Youth Affairs and Sports, New Delhi.*
- *University of Mumbai National Service Scheme Manual 2009.*
- *Avhan Chancellor's Brigade - NSS Wing, Training camp on Disaster Preparedness Guidelines, March 2012*
- *Rashtriya Seva Yojana Sankalpana - Prof. Dr. Sankay Chakane, Dr. Pramod Pabrekar, Diamond Publication, Pune*
- *National Service Scheme Manual for NSS District Coordinators, National Service Scheme Cell, Dept. of Higher and Technical Education, Mantralaya,*
- *Annual report of National Service Scheme (NSS) published by Dept. of Higher and Technical Education, Mantralaya,*
- *NSS Cell, Dept. of Higher and Technical Education, Mantralaya, UTKARSHA- Socio and cultural guidelines*
- *Case material as a Training Aid for Field Workers, Gurmeet Hans.*
- *Social service opportunities in hospitals, Kapil K. Krishnan, TISS*
- *New Trends in NSS, Research papers published by University of Pune*
- *ANOOGUNJ Research Journal, published by NSS Unit C. K. Thakur college*
- *Training Manual for Field Work published by RGNIYD, Chreeperumbudur*
- *Prof. Ghatole R.N. Rural Social Science and Community Development.*
- *Purushottam Sheth, Dr. Shailaja Mane, National Service Scheme*
- *Joint programme of National Service Scheme, University of Mumbai & DISHA - DEEPSHIKHA Projects, Nair Hospital, 2011-12*
- *National Service Scheme in India: A Case study of Karnataka, M. B. Dishad, Trust Publications, 2001*
- <http://www.thebetterindia.com/140/national-service-scheme-nss/>
- <http://en.wikipedia.org/wiki/national-service-scheme> 19=<http://nss.nic.in/adminstruct>
- <http://nss.nic.in/propexpan>
- <http://nss.nic.in>

Reference Books

Foundation Course in NCC - IV

- *Cadet's Hand book – Common subject..all wings, BY DG NCC, New Delhi.*
- *Cadet's Hand book – Specialised Subjects, Army, Navy, Air-force, BY DG NCC, New Delhi.*
- *NCC OTA Precise, BY DG NCC, New Delhi.*
- *“AVAN” Model of Disaster Mang., Vinayak Dalvie, Proceedings of Int. Conf. on Urban Plan. and Env Strat & Challenges, Elphinstone College, Jan 2007.*
- *Humanistic Tradition of India, N.L.Gupta, Mohit Publication, New Delhi*
- *Social psychology, Baron & Byrne, Pearson Publication, 12th Edition self awareness know yourself / insight (110) Group & Individuals (374) Group discussion*
- *Chanakya's 7 Secrets of Leadership, Radhakrishanan Pillai and D.Shivnandhan, Jaico*
- *Social Psychology: Understanding Human Interaction, Baron, Robert A., (302/BAR/BYR), 7th Edition*
- *Seven Habits of Highly Effective People., Covey , Stephen*
- *The Habit of Winning., Iyer , Prakash, Penguin , India ; 2011*
- *The Goal, Goldratt , Eliyahu, The Northriver press ; 1994*
- *Freedom Struggle, Chandra Bipin, National Book Trust 1972*
- *Freedom of Religion and The Indian Judiciary, Bachal V.M. , Shubhada Saraswat, (362P)*
- *India 1996- A Reference Annual Govt. of India*
- *Saha Soneri Pane, Vinayak D. Savarkar*
- *Environmental Biology and Toxicology, P.D. Sharma., Rastogi Publication*
- *Environmental Science, S.C. Santra, New Central Book Agency*
- *National Cadet Corps (India), Lambert M. Surhone, Mariam T. Tennoe, Susan F. Henssonow, Betascript Publishing, 2011*
- *National Cadet Corps, Youth in Action (Google eBook), National Cadet Corps (India), Lancer Publishers, 2003*
- *Youth in Step: History of the National Cadet Corps, V. Longer, Lancer international, 1983 Original from the University of Michigan*
- *National Cadet Corps of India, Man Mohan Sharma, Vision Books, 1980 Original from the University of Michigan*
- *The National Cadet Corps Act, 1948, as Modify Up to the 1st July 1963, India, Government of India Press, 1963 (Military Law)*
- *Cadet Corps in India: Its Evolution and Impact, Satis Chandra Maikap, Darbari Udyog, 1979 Original from the University of California*
- *National Cadet Corps: 100 Years of Distinction, National Cadet Corps (Singapore), NCC*
- *The NCC, Singapore, National Cadet Corps Council, National Cadet Corps Council*
- *Grooming Tomorrow's Leaders: National Cadet Corps, 1917-2006, R.S. Chhettri, Lancer Publishers, 2006*
- *National Civil Defence Cadet Corps, Lambert M. Surhone, Mariam T. Tennoe, Susan F. Henssonow, Betascript Publishing, 2011*
- *Discovery of India, Jawaharlal Nehru*
- *Health and Hygiene, Manoj. J.S., Agra University Publication*
- *Yoga for Healing, Venkateswaran P.S., Bombay:- Jaico Publishing House 1989*
- *Yoga Illustrated, New Delhi, Ministry of Information and Broadcasting, 1995*
- *Yoga Practice, 1972, Shivnande Swami, Mumbai:- D.B. Taraporewala 1972*
- *Yoga of Patanjali-1979, Yardi M.R., Bhandarkar Oriental Research Institute- 1974*
- *Sustainable Development (An Alternative Paradigm), Satpathy , N., Karnavati Publications , Ahmedabad*
- *Global Partners for Sustainable Development, Pachauri R.K & Srivastava L., Tata Energy Research Institute, New Delhi ; 1994, 1998*
- *Ecology and the Politics of survival : Conflict over Natural Resources in India, Shiva , Vandana, Sage Publications , California , 1991*

Reference Books

Foundation Course in Physical Education - IV

- Lippian Cott Williams and Wilkins 2006.
- American College of Sports Medicine, ACSM's, Guidelines for Exercise Testing and Prescription. (2013) Ninth Edition, Lippian Cott Williams and Wilkins.
- American College of Sports Medicine, ACSM's Resource Manual for Guidelines for Exercise Testing and Prescription. (2006) 5th Ed., Lippian Cott Williams and Wilkins, 2006.
- Beashel, P., & Taylor, J. (1996). Advance Studies in Physical Education and Sports. U.K.: Thomas Nelson and Sons Ltd.
- Bucher, C.A. (1995). Foundation of Physical Education (12th Ed.) USA : St. Louis,
- C.V. Mosloy.
- Colfter, G.R., Hamilton, K.E., Magill R.A., & Hamilton B.J. (1986). Contemporary Physical Education. USA : Wim C. Brown Publisher.
- Daryl S. (1994). Introduction to physical education, fitness and sports (2nd ed.). London: Mayfield publishing company.
- Dheer, S.D.(1991). Introduction to Health Education. New Delhi : Friends Publication.
- Dr. A.K.Uppal & Dr. G. P. Gautam (2004). Physical education and Health. Delhi: Friends publisher.
- Dr. Gharote M. L; Teaching Methods for Yogic Practices. – 2nd Ed., Kaivalyadham Samiti, Lonavala-2001.
- Dr. Gharote M. L; Guideline for Yogic Practices – 2nd Ed., The Lonavala Yoga Institute (India), Lonavala- 2007
- Greenberg, Dintiman, Oakes. (2004). Physical Fitness & wellness.(3rd ed.) IL:Human kinetics.
- Halfield, F.C. (2001). Fitness : The Complete Guide. USA : International Sports Science Association.
- Jackson, A.L., Morrow, J.R. (2004). Physical activity for health & fitness. IL:Human kinetics.
- Kamlesh, M.L. (2002). Foundation of Physical Education. New Delhi : Metropolitan Book & Co. Ptd. Ltd.
- Kansal, D.K. (2012). A Text book of Applied Measurement Evaluation and Sports Selection (3rd Ed.). New Delhi : DVS Publication.
- Lock Hurt and others – Anatomy of the human body, Feber & Feber Oxford University, 1975
- Muller, J. P.(2000). Health, Exercise and Fitness. Delhi : Sports.
- Murgesh N. – Anatomy, Physiology and Health Education, Sathya, Chinnalapatti, 1990.
- NASPE. (2005). Physical Education for lifelong fitness. The physical Best teacher's guide. IL:Human Kinetics
- Nieman, D.C.(1986). Fitness and Sports Medicine : Health Related Approach London: Mayfield Publishing Co.
- Nimbalkar. Sadashiv, Yoga for Health and Peace.- 6th Ed., Yoga Vidya Niketan, Mumbai., 2004.
- Pate R.R. & Hohn R.C. (1994). Health Fitness Through Physical Education. USA : Human Kinetics.
- Pandey , & Gangopadhyay.(1995). Health Education for school children. New Delhi : Friends Publication.
- Safrit, M. (1990). Introduction to Measurement in Physical Education and Exercise Science. St. Louis, Toronto, Bastan : Times Mirror/Mosby College Publishing.
- Sharma, O.P. (1998). History of Physical Education. Delhi: Khel Sahitya Kendra. Werner. W.K., Hoeger. (2007). Fitness and Wellness. (8th ed.). Wadsworth, Cengage Learning.

Business Law (Company Law) IV

- Companies Act 2013 by Ravi Puliani, Bharat Publication
- Companies Act 2013 by Taxmann

Reference Books

Research Methodology in Accounting and Finance

- *Research Methods in Accounting, Malcolm Smith*
- *Research Methods and Methodology in Finance and Accounting, by Viv Beattie and Bob Ryan*

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
Programme at Semester III and IV
with effect from the Academic Year 2017-2018**

Scheme of Evaluation

The performance of the learners will be evaluated in two Components. One component will be the Internal Assessment component carrying 25% marks and the second component will be the Semester-wise End Examination component carrying 75% marks. The allocation of marks for the Internal Assessment and Semester End Examinations will be as shown below:-

A) Internal Assessment: 25 %

Question Paper Pattern

(Internal Assessment- Courses without Practical Courses)

Sr. No.	Particular	Marks
1	One class test (20 Marks)	
	Match the Column/ Fill in the Blanks/ Multiple Choice Questions <i>(½ Mark each)</i>	05 Marks
	Answer in One or Two Lines (Concept based Questions) <i>(01 Mark each)</i>	05 Marks
	Answer in Brief (Attempt Any Two of the Three) <i>(05 Marks each)</i>	10 Marks
2	Active participation in routine class instructional deliveries and overall conduct as a responsible learner, mannerism and articulation and exhibit of leadership qualities in organizing related academic activities	05 Marks

Question Paper Pattern

(Internal Assessment- Courses with Practical Courses)

Sr. No.	Particular	Marks
1	Semester End Practical Examination (20 Marks)	
	Journal	05 Marks
	Viva	05 Marks
	Laboratory Work	10 Marks
2	Active participation in routine class instructional deliveries and overall conduct as a responsible learner, mannerism and articulation and exhibit of leadership qualities in organizing related academic activities articulation and exhibit of leadership qualities in organizing related academic activities	05 Marks

B) Semester End Examination: 75 %

- i) Duration: The examination shall be of 2 ½ Hours duration
- ii) Theory question paper pattern
 - There shall be five questions each of 15 marks.
 - All questions shall be compulsory with internal choice within the questions.
 - Question may be subdivided into sub-questions a, b, c... and the allocation of marks depends on the weightage of the topic.

(Detail question paper pattern has been given separately)

Passing Standard

The learners to pass a course shall have to obtain a minimum of 40% marks in aggregate for each course where the course consists of Internal Assessment and Semester End Examination. The learners shall obtain minimum of 40% marks (i.e. 10 out of 25) in the Internal Assessment and 40% marks in Semester End Examination (i.e. 30 Out of 75) separately, to pass the course and minimum of Grade E to pass a particular semester A learner will be said to have passed the course if the learner passes the Internal Assessment and Semester End Examination together.

Question Paper Pattern (Practical Courses)

Maximum Marks: 75

Questions to be set: 05

Duration: 2 ½ Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Objective Questions A) Sub Questions to be asked 10 and to be answered any 08 B) Sub Questions to be asked 10 and to be answered any 07 (*Multiple choice / True or False / Match the columns/Fill in the blanks)	15 Marks
Q-2	Full Length Practical Question OR	15 Marks
Q-2	Full Length Practical Question	15 Marks
Q-3	Full Length Practical Question OR	15 Marks
Q-3	Full Length Practical Question	15 Marks
Q-4	Full Length Practical Question OR	15 Marks
Q-4	Full Length Practical Question	15 Marks
Q-5	A) Theory questions B) Theory questions OR	08 Marks 07 Marks
Q-5	Short Notes To be asked 05 To be answered 03	15 Marks

Note:

Practical question of 15 marks may be divided into two sub questions of 7/8 and 10/5 Marks. If the topic demands, instead of practical questions, appropriate theory question may be asked.

Question Paper Pattern (Theoretical Courses)

Maximum Marks: 75

Questions to be set: 05

Duration: 2 ½ Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Objective Questions A) Sub Questions to be asked 10 and to be answered any 08 B) Sub Questions to be asked 10 and to be answered any 07 (*Multiple choice / True or False / Match the columns/Fill in the blanks)	15 Marks
Q-2	Full Length Question OR	15 Marks
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question OR	15 Marks
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question OR	15 Marks
Q-4	Full Length Question	15 Marks
Q-5	A) Theory questions B) Theory questions OR	08 Marks 07 Marks
Q-5	Short Notes To be asked 05 To be answered 03	15 Marks

Note:

Theory question of 15 marks may be divided into two sub questions of 7/8 and 10/5 Marks.

University of Mumbai



**Revised Syllabus
and
Question Paper Pattern
of Courses of
B.Com. (Accounting and Finance)
Programme
Second Year
*Semester III and IV***

**Under Choice Based Credit, Grading and
Semester System**

(To be implemented from Academic Year 2017-2018)
Board of Studies-in-Accountancy

B.Com. (Accounting and Finance) Programme

Under Choice Based Credit, Grading and Semester System

Course Structure

S.Y.B.Com. (Accounting and Finance)

(To be implemented from Academic Year- 2017-2018)

No. of Courses	Semester III	Credits	No. of Courses	Semester IV	Credits
1	Elective Courses (EC)		1	Elective Courses (EC)	
1,2 & 3	*Any three courses from the following list of the courses	09	1,2 & 3	**Any three courses from the following list of the courses	09
2	Ability Enhancement Courses (AEC)		2	Ability Enhancement Courses (AEC)	
2A	Ability Enhancement Compulsory Course (AECC)		2A	Ability Enhancement Compulsory Course (AECC)	
4	Information Technology in Accountancy - I	03	4	Information Technology in Accountancy - II	03
2B	*Skill Enhancement Courses (SEC)		2B	**Skill Enhancement Courses (SEC)	
5	Any one course from the following list of the courses	02	5	Any one course from the following list of the courses	02
3	Core Courses (CC)		3	Core Courses (CC)	
6	Business Law (Business Regulatory Framework) - II	03	6	Business Law (Company Law) - III	03
7	Business Economics - II	03	7	Research Methodology in Accounting and Finance	03
Total Credits		20	Total Credits		20

*List of Skill Enhancement Courses (SEC) for Semester III (Any One)		**List of Skill Enhancement Courses (SEC) for Semester IV (Any One)	
1	Foundation Course in Commerce (Financial Market Operations) - III	1	Foundation Course in Management (Introduction to Management) - IV
2	Foundation Course- Contemporary Issues- III	2	Foundation Course- Contemporary Issues- IV
3	Foundation Course in NSS - III	3	Foundation Course in NSS – IV
4	Foundation Course in NCC - III	4	Foundation Course in NCC – IV
5	Foundation Course in Physical Education - III	5	Foundation Course in Physical Education -IV

*List of Elective Courses (EC) for Semester III (Any Three)		**List of Elective Courses (EC) for Semester IV (Any Three)	
1	Financial Accounting (Special Accounting Areas) - III	1	Financial Accounting (Special Accounting Areas) - IV
2	Cost Accounting (Methods of Costing) - II	2	Management Accounting (Introduction to Management Accounting)
3	Auditing (Techniques of Auditing and Audit Procedures) - II	3	Auditing - III
4	Taxation - II (Direct Taxes Paper- I)	4	Taxation - III (Direct Taxes- II)
5	Principles & Practices of Banking	5	Wealth Management

Note: Course selected in Semester III will continue in Semester IV

B.Com. (Accounting and Finance) Programme
Under Choice Based Credit, Grading and Semester System
Course Structure

(To be implemented from Academic Year 2017-2018)

Semester III

No. of Courses	Semester III	Credits
1	Elective Courses (EC) *Any three courses from the following list of the courses	
1	Financial Accounting (Special Accounting Areas) - III	03
2	Cost Accounting (Methods of Costing) - II	03
3	Auditing (Techniques of Auditing and Audit Procedures) - II	03
4	Taxation - II (Direct Taxes Paper- I)	03
5	Principles & Practices of Banking	03
2	Ability Enhancement Courses (AEC)	
2A	Ability Enhancement Compulsory Course (AECC)	
4	Information Technology in Accountancy - I	03
2B	*Skill Enhancement Courses (SEC)	
5	Any one course from the following list of the courses	02
3	Core Courses (CC)	
6	Business Law (Business Regulatory Framework) II	03
7	Business Economics II	03
Total Credits		20

*List of Skill Enhancement Courses (SEC) for Semester III (Any One)	
1	Foundation Course in Commerce (Financial Market Operations) - III
2	Foundation Course- Contemporary Issues- III
3	Foundation Course in NSS - III
4	Foundation Course in NCC - III
5	Foundation Course in Physical Education - III

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
Programme at Semester III
with Effect from the Academic Year 2017-2018**

1. Elective Courses (EC)

Financial Accounting (Special Accounting Areas) - III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Partnership Final Accounts based on Adjustment of Admission or Retirement / Death of a Partner during the Year	15
2	Piecemeal Distribution of Cash	10
3	Amalgamation of Firms	15
4	Conversion / Sale of a Partnership Firm into a Ltd. Company	10
5	Accounting of Transactions of Foreign Currency	10
Total		60

Sr. No.	Modules / Units
1	Partnership Final Accounts based on Adjustment of Admission or Retirement / Death of a Partner during the Year
	<p>Simple final accounts questions to demonstrate the effect on final Accounts when a partner is admitted during the year or when partner Retires / dies during the year</p> <p>Allocation of gross profit prior to and after admission / retirement / death when stock on the date of admission / retirement is not given and apportionment of other expenses based on time / Sales/other given basis</p> <p>Ascertainment of gross profit prior to and after admission/retirement / death when stock on the date of admission / retirement is given and apportionment of other expenses based on time / Sales / other given basis</p> <p>Excluding Questions where admission / retirement / death takes place in the same year</p>
2	Piecemeal Distribution of Cash
	<p>Excess Capital Method only</p> <p>Asset taken over by a partner</p> <p>Treatment of past profits or past losses in the Balance sheet</p> <p>Contingent liabilities / Realization expenses/amount kept aside for expenses and adjustment of actual</p> <p>Treatment of secured liabilities</p> <p>Treatment of preferential liabilities like Govt. dues / labour dues etc</p> <p>Excluding: Insolvency of partner and Maximum Loss Method</p>
3	Amalgamation of Firms
	<p>Realization method only</p> <p>Calculation of purchase consideration</p> <p>Journal/ledger accounts of old firms</p> <p>Preparing Balance sheet of new firm</p> <p>Adjustment of goodwill in the new firm</p> <p>Realignment of capitals in the new firm by current accounts / cash or a combination thereof</p> <p>Excluding : Common transactions between the amalgamating firms</p>
4	Conversion / Sale of a Partnership Firm into a Ltd. Company
	<p>Realisation method only</p> <p>Calculation of New Purchase consideration, Journal / Ledger Accounts of old firms.</p> <p>Preparing Balance sheet of new company</p>
5	Accounting of Transactions of Foreign Currency
	<p>In relation to purchase and sale of goods, services and assets and loan and credit transactions.</p> <p>Computation and treatment of exchange rate differences</p>

Note: Relevant Law/Statute/Rules in force and relevant Accounting Standards in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuring examination after relevant year.

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
Programme at Semester III
with Effect from the Academic Year 2017-2018**

1. Elective Courses (EC)

Cost Accounting (Methods of Costing) – II

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Classification of Costs And Cost Sheets	20
2	Reconciliation of Cost and Financial Accounts	10
3	Contract Costing	15
4	Process Costing	15
Total		60

Sr. No.	Modules / Units
1	Classification of Costs and Cost Sheet
	Classification of costs, Cost of Sales, Cost Centre, Cost Unit, Profit Centre and Investment Centre Cost Sheet, Total Costs and Unit Costs, Different Costs for different purpose Problems on preparation of cost sheet & Estimated Cost sheet
2	Reconciliation of cost and financial accounts
	Practical problems based on reconciliation of cost and Financial accounts
3	Contract Costing
	Progress payments, Retention money, Contract accounts, Accounting for material, Accounting for Tax deducted at source by the contractee, Accounting for plant used in a contract, treatment of profit on incomplete contracts, Contract profit and Balance sheet entries. Escalation clause, practical problems
4	Process Costing
	Process loss, Abnormal gains and losses, Joint products and by products. Excluding Equivalent units, Inter-process profit Practical problems Process Costing and joint and by products

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
Programme at Semester III
with Effect from the Academic Year 2017-2018**

1. Elective Courses (EC)

**Auditing (Techniques of Auditing and Audit
Procedures) - II**

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Vouching	15
2	Verification	15
3	Auditing Standards	15
4	Audit of Companies	15
Total		60

Sr. No.	Modules / Units
1	Vouching
1.1	Audit of Income : Revenue from Sales and Services, Rental Income, Interest & Dividends Income, Royalties Income, Recovery of Bad debts written off, Commission Received
1.2	Audit of Expenditure : Purchases, Salaries & Wages, Rent, Insurance Premium, Telephone expense , Petty cash payment, Advertisement, Travelling Salesmen's Commission, Freight Carriage and Custom Duties
2	Verification
2.1	Audit of assets : Plant & Machinery, Furniture and fixtures, Accounts Receivable, Investments, Inventory, Goodwill, Patent Rights
2.2	Audit of Liabilities: Outstanding Expenses, Accounts Payable, Secured loans, Unsecured Loans, Contingent Liabilities, Public Deposits
3	Auditing Standards
3.1	Meaning Procedure of issuing Auditing Standards in India Brief overview of Auditing Standards in India Scope of SAs Significance of the Auditing Standards Responsibility of auditor for auditing standards
3.2	Understanding of following standards SA 200. SA210, SA230, SA240, SA 250, SA300,SA315, SA320, SA505.
4	Audit of Companies
	Qualifications, Disqualifications, Appointments, Reappointment, Removal of auditors. Special auditors Branch auditors Rights and duties of company auditors

Note: *Relevant Law/Statute/Rules in force and relevant Standards in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuring examination after relevant year.*

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
Programme at Semester III
with Effect from the Academic Year 2017-2018**

1. Elective Courses (EC)

Taxation - II (Direct Taxes Paper- I)

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Definitions u/s – 2 , Basis of Charge and Exclusions from Total Income	15
2	Heads of Income	15
3	Deductions under Chapter VI – A	15
4	Computation of Total Income	15
	Total	60

Sr. No.	Modules / Units
1	Definitions u/s – 2 , Basis of Charge and Exclusions from Total Income
	<p>Definitions u/s – 2 : Section 2 –Assessee, Assessment Year, Assessment, Annual value, Business, Capital asset, Income, Person, Previous Year, Transfer</p> <p>Basis of Charge : Section 3 – 9 – Previous Year, Residential Status, Scope Of Total Income, Deemed Income</p> <p>Exclusions from Total Income: Section 10 – restricted to, Agricultural Income, Sums Received From HUF By Member, Share of Profit from Firm, Casual & Non – Recurring Receipts, Scholarships, Income of Minor Child, Allowance to Members of Parliament and Legislative Assembly.</p> <p>Note -Exemptions related to specific Heads of Income to be covered with Relevant Provisions.</p>
2	Heads of Income
	<p>Various Heads of Income</p> <p>Salary Income: Section 15 – 17, Including Section 10 relating to House Rent Allowance, Travel Concession, Special Allowance, Gratuity, Pension – Commutation, Leave Encashment, Compensation, Voluntary Retirement, Payment from Provident Fund</p> <p>Income From House Property : Section 22 – 27, Including Section 2 – Annual Value</p> <p>Profits & Gains From Business & Profession : Vocation Section 28-32, 36, 37, 40, 40A, 43B, 44AD, 44ADA & 44AE including.: Section 2 – Business</p> <p>Capital Gains : Section 45, 48, 49, 50, 54 and 55</p> <p>Income from Other Sources: Section 56 – 59</p>
3	Deductions under Chapter VI – A
	<p>80 A- Restriction on claim in Chapter VI- A deductions</p> <p>80 C – Payment of LIC/PF and other eligible investments</p> <p>80CCC – Contribution to certain Pension Fund</p> <p>80D – Medical Insurance Premium</p> <p>80 DD- Maintenance and medical treatment of handicapped dependent</p> <p>80E – Interest on Educational Loan</p> <p>80 TTA- Interest on Saving Bank account</p> <p>80U – Deduction in the case of totally blind or physically handicapped or mentally retarded resident person</p>
4	Computation of Total Income
	Computation of Total Income of Individual and HUF with respect to above heads and deductions

Note: Relevant Law/Statute/Rules in force and relevant Standards in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuring examination after relevant year.

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
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Principles & Practices of Banking

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Indian Financial System	15
2	Functions of Banks and related issues	20
3	Banking Technology	15
4	Marketing & Services of Banking	10
Total		60

Sr. No.	Modules / Units
1	Indian Financial System
	Indian Financial system – An overview Banking Regulations Introduction to Retail Banking, wholesale banking and International banking Role of money market Debt market, capital market, Forex market & SEBI Mutual funds & Insurance companies & IRDA Factoring, Forfaiting services and off Balance sheet items Risk Management, Introduction of Basel norms CIBIL, Fair Practices code for Debt collection
2	Functions of Banks and related issues
	Banker Customer relationship KYC/AML/CFT norms Bankers special relationship Consumer protection – COPRA, Banking Ombudsman Scheme Payment and collection of cheque and other negotiable instrument Opening Accounts of various types of customers Ancillary services Cash Operations Principles of lending, working capital assessment and credit monitoring Priority sector advances Agricultural finance Micro, Small and Medium Enterprises – MSMED Act, Policy package Government Sponsored schemes –SGSY; SJSRY;PMRY;SLRS Self Help Groups Credit cards, Home loans, Personal Loans & Consumer loans Documentation Different types of charging securities Types of collaterals & their characteristics Non – Performing Assets Financial inclusion
3	Banking Technology
	Payments system & Electronic Banking Data communication and EFT Systems Role of Technology & its impact on Banks
4	Marketing & Services of Banking
	Marketing, Social Marketing Consumer behaviour and Product Pricing, distribution and channel management

Note: Relevant Law/Statute/Rules in force and relevant Standards in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuring examination after relevant year.

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2A. Ability Enhancement Courses (AEC)

Information Technology in Accountancy - I

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Computers	10
2	Office Productivity Tools	20
3	Web	10
4	Introduction to Internet and other emerging technologies	10
5	Electronic Commerce	10
Total		60

Sr. No.	Modules / Units
1	Introduction to Computers
	History of Computers Parts of Computers Hardwares: Specifications and Data Storage Management Softwares: Concept of System Software and Applications Networking: Introduction and types of network topologies
2	Office Productivity Tools
	MS Word: Creating, Editing, Formatting and Printing of Documents, Using Tools, Mailmerge and Print Review and Set-up MS Excel: Creating Worksheet, Creating Various Formulae, Creating Charts, Rename and Copy of Worksheets, Using Tools, Printing Review and Set-up Power Point: Create Project Report, Create Slides, Animation, Page Designing, Insert Image, View Page, Print Review and Set-up. Use of Tools In Accounting :- Preparation of vouchers, invoices and reports, Calculation of Interest, Depreciation, TDS, Salary, Taxes, inventory and reconciliation
3	Web
	Use of Various Web Browser Information Searching Tools Downloading Create New email ID Sending Data through email Search engine optimisation
4	Introduction to Internet and other emerging technologies
	Introduction – Internet components – electronic commerce – e-commerce applications – Electronic Data Exchange – Extranet – Payment systems – Risks and security considerations – Legal issues – Other emerging technologies
5	Electronic Commerce
	Meaning, Advantages and Limitations of E Commerce, The role of Strategy in E Commerce, Value chains in E Commerce, Infrastructure for Electronic Commerce Web Based Tools for Electronic Commerce, Electronic Commerce software, Security Threats to electronic Commerce , Implementing Security for Electronic Commerce, Electronic Payment Systems, Strategies for Marketing, Sales & Promotion Strategies for Purchasing Logistics & Support Activities, Electronic Markets & Communities, Business Plans for Implementing Electronic Commerce.

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2B. Skill Enhancement Courses (SEC)

**Foundation Course in Commerce
(Financial Market Operations) - III**

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	An Overview of the Financial System	05
2	Financial Markets	15
3	Financial Instruments	10
4	Financial Services	15
	Total	45

Sr. No.	Modules / Units
1	An Overview of the Financial System
	Saving and Investment Money, Inflation and Interest Banking and Non Banking Financial Intermediaries
2	Financial Markets
	Financial Markets: Introduction and meaning, Government Economic Philosophy and Financial Market, Structure of Financial Market in India Capital Market: Introduction and meaning, Concept, Role, Importance, Evolution in India, Primary Market System and Regulations in India, Secondary Market System Bond Market in India Debt Market in India
3	Financial Instruments
	Meaning and types of Financial Instruments Characteristics of Financial Instruments: Liquidity, Maturity, Safety and Yield REPO, TBs, Equities, Bonds, Derivatives, others
4	Financial Services
	Merchant Banking : Managing of Public Equity / Debenture Issues Mobilizing Fixed Deposits, Arranging Inter-corporate Loans, Raising term Finance and Loan Syndication. Other Financial Services: Consumer Finance, Credit Cards, Mutual Funds and Commercial Paper

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2B. Skill Enhancement Courses (SEC)

Foundation Course- Contemporary Issues- III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Human Rights Provisions, Violations and Redressal	12
2	Dealing With Environmental Concerns	11
3	Science and Technology I	11
4	Soft Skills for Effective Interpersonal Communication	11
	Total	45

Sr. No.	Modules / Units
1	Human Rights Violations and Redressal
	<p>A. Scheduled Castes- Constitutional and legal rights, Forms of violations, Redressal mechanisms. (2 Lectures)</p> <p>B. Scheduled tribes- Constitutional and legal rights, Forms of violations, Redressal mechanisms. (2 Lectures)</p> <p>C. Women- Constitutional and legal rights, Forms of violations, Redressal mechanisms. (2 Lectures)</p> <p>D. Children- Constitutional and legal rights, Forms of violations, Redressal mechanisms. (2 Lectures)</p> <p>E. People with Disabilities, Minorities, and the Elderly population- Constitutional and legal rights, Forms of violations, Redressal mechanisms. (4 Lectures)</p>
2	Dealing With Environmental Concerns
	<p>A. Concept of Disaster and general effects of Disasters on human life- physical, psychological, economic and social effects. (3 Lectures)</p> <p>B. Some locally relevant case studies of environmental disasters. (2 Lectures)</p> <p>C. Dealing with Disasters - Factors to be considered in Prevention, Mitigation (Relief and Rehabilitation) and disaster Preparedness. (3 Lectures)</p> <p>D. Human Rights issues in addressing disasters- issues related to compensation, equitable and fair distribution of relief and humanitarian approach to resettlement and rehabilitation. (3 Lectures)</p>
3	Science and Technology – I
	<p>A. Development of Science- the ancient cultures, the Classical era, the Middle Ages, the Renaissance, the Age of Reason and Enlightenment. (3 Lectures)</p> <p>B. Nature of science- its principles and characteristics; Science as empirical, practical, theoretical, validated knowledge. (2 Lectures)</p> <p>C. Science and Superstition- the role of science in exploding myths, blind beliefs and prejudices; Science and scientific temper- scientific temper as a fundamental duty of the Indian citizen. (3 Lectures)</p> <p>D. Science in everyday life- technology, its meaning and role in development; Interrelation and distinction between science and technology. (3 Lectures)</p>
4	Soft Skills for Effective Interpersonal Communication
	<p>Part A (4 Lectures)</p> <p>I) Effective Listening - Importance and Features.</p> <p>II) Verbal and Non-Verbal Communication; Public-Speaking and Presentation Skills.</p> <p>III) Barriers to Effective Communication; Importance of Self-Awareness and Body Language.</p> <p>Part B (4 Lectures)</p> <p>I) Formal and Informal Communication - Purpose and Types.</p> <p>II) Writing Formal Applications, Statement of Purpose (SOP) and Resume.</p> <p>III) Preparing for Group Discussions, Interviews and Presentations.</p> <p>Part C (3 Lectures)</p> <p>I) Leadership Skills and Self-Improvement - Characteristics of Effective Leadership.</p> <p>II) Styles of Leadership and Team-Building.</p>

References

1. Asthana, D. K., and Asthana, Meera, *Environmental Problems and Solutions*, S. Chand, New Delhi, 2012.
2. Bajpai, Asha, *Child Rights in India*, Oxford University Press, New Delhi, 2010.
3. Bhatnagar Mamta and Bhatnagar Nitin, *Effective Communication and Soft Skills*, Pearson India, New Delhi, 2011.
4. G Subba Rao, *Writing Skills for Civil Services Examination*, Access Publishing, New Delhi, 2014
5. Kaushal, Rachana, *Women and Human Rights in India*, Kaveri Books, New Delhi, 2000.
6. Mohapatra, Gaur Krishna Das, *Environmental Ecology*, Vikas, Noida, 2008.
7. Motilal, Shashi, and Nanda, Bijoy Lakshmi, *Human Rights: Gender and Environment*, Allied Publishers, New Delhi, 2007.
8. Murthy, D. B. N., *Disaster Management: Text and Case Studies*, Deep and Deep Publications, New Delhi, 2013.
9. Parsuraman, S., and Unnikrishnan, ed., *India Disasters Report II*, Oxford, New Delhi, 2013
10. Reza, B. K., *Disaster Management*, Global Publications, New Delhi, 2010.
11. Sathe, Satyaranjan P., *Judicial Activism in India*, Oxford University Press, New Delhi, 2003.
12. Singh, Ashok Kumar, *Science and Technology for Civil Service Examination*, Tata McGraw Hill, New Delhi, 2012.
13. Thorpe, Edgar, *General Studies Paper I Volume V*, Pearson, New Delhi, 2017.

Projects / Assignments (for Internal Assessment)

- i. Projects/Assignments should be drawn for the component on Internal Assessment from the topics in **Module 1 to Module 4**.
- ii. Students should be given a list of possible topics - at least 3 from each Module at the beginning of the semester.
- iii. The Project/Assignment can take the form of Street-Plays / Power-Point Presentations / Poster Exhibitions and similar other modes of presentation appropriate to the topic.
- iv. Students can work in groups of not more than 8 per topic.
- v. Students must submit a hard / soft copy of the Project / Assignment before appearing for the semester end examination.

QUESTION PAPER PATTERN (Semester III)

The Question Paper Pattern for Semester End Examination shall be as follows:

TOTAL MARKS: 75

DURATION: 150 MINUTES

QUESTION NUMBER	DESCRIPTION	MARKS ASSIGNED
1	<ol style="list-style-type: none">i. Question 1 A will be asked on the meaning / definition of concepts / terms from all Modules.ii. Question 1 B will be asked on the topic of the Project / Assignment done by the student during the Semesteriii. In all 8 Questions will be asked out of which 5 have to be attempted.	<ol style="list-style-type: none">a) Total marks: 15b) For 1 A, there will be 3 marks for each sub-question.c) For 1 B there will be 15 marks without any break-up.
2	Descriptive Question with internal option (A or B) on Module 1	15
3	Descriptive Question with internal option (A or B) on Module 2	15
4	Descriptive Question with internal option (A or B) on Module 3	15
5	Descriptive Question with internal option (A or B) on Module 4	15

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2B. Skill Enhancement Courses (SEC)

Foundation Course in NSS - III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Value System & Gender sensitivity	12
2	Disaster preparedness & Disaster management	10
3	Health, hygiene & Diseases	13
4	Environment & Energy conservation	10
Total		45

Sr. No.	Modules / Units
1	Value System & Gender sensitivity
	<p>UNIT - I – Value System Meaning of value, Types of values- human values and social responsibilities- Indian value system- the concepts and its features</p> <p>UNIT - II - Gender sensitivity and woman empowerment Concept of gender- causes behind gender related problems- measures Meaning of woman empowerment- schemes for woman empowerment in India</p>
2	Disaster preparedness & Disaster management
	<p>UNIT - I - Basics of Disaster preparedness Disaster- its meaning and types Disaster preparedness- its meaning and methods</p> <p>UNIT - II - Disaster management Disaster management- concept- disaster cycle - role of technology in disaster response- role of as first responder – the study of ‘Avhan’ Model</p>
3	Health, hygiene & Diseases
	<p>UNIT - I - Health and hygiene Concept of complete health and maintenance of hygiene</p> <p>UNIT - II - Diseases and disorders- preventive campaigning Diseases and disorders- preventive campaigning in Malaria, Tuberculosis, Dengue, Cancer, HIV/AIDS, Diabetes</p>
4	Environment & Energy conservation
	<p>UNIT - I Environment and Environment enrichment program Environment- meaning, features , issues, conservation of natural resources and sustainability in environment</p> <p>UNIT - II Energy and Energy conservation program Energy- the concept, features- conventional and non- conventional energy Energy conservation- the meaning and importance</p>

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2B. Skill Enhancement Courses (SEC)

Foundation Course in NCC - III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	National Integration & Awareness	10
2	Drill: Foot Drill	10
3	Adventure Training and Environment Awareness and Conservation	05
4	Personality Development and Leadership	10
5	Specialized subject (ARMY)	10
	Total	45

Sr. No.	Modules / Units
1	National Integration & Awareness
	<p>Desired outcome: The students will display sense of patriotism, secular values and shall be transformed into motivated youth who will contribute towards nation building through national unity and social cohesion.</p> <p>The students shall enrich themselves about the history of our beloved country and will look forward for the solutions based on strengths to the challenges to the country for its development.</p> <ul style="list-style-type: none"> • Freedom Struggle and nationalist movement in India. • National interests, Objectives, Threats and Opportunities. • Problems/ Challenges of National Integration. • Unity in Diversity
2	Drill: Foot Drill
	<p>Desired outcome: The students will demonstrate the sense of discipline, improve bearing, smartness, turnout, develop the quality of immediate and implicit obedience of orders, with good reflexes.</p> <ul style="list-style-type: none"> • Side pace, pace forward and to the rear • Turning on the march and whiling • Saluting on the march • Marking time, forward march and halt in quick time • Changing step • Formation of squad and squad drill
3	Adventure Training, Environment Awareness and Conservation
3A	Adventure Training
	<p>Desired outcome: The students will overcome fear & inculcate within them the sense of adventure, sportsmanship, esprit-d-corp and develop confidence, courage, determination, diligence and quest for excellence.</p> <ul style="list-style-type: none"> • Any Two such as – Obstacle course, Slithering, Trekking, Cycling, Rock Climbing, Para Sailing, Sailing, Scuba Diving etc.
3B	Environment Awareness and Conservation
	<p>Desired outcome: The student will be made aware of the modern techniques of waste management and pollution control.</p> <ul style="list-style-type: none"> • Waste management • Pollution control, water, Air, Noise and Soil
4	Personality Development and Leadership
	<p>Desired outcome: The student will inculcate officer like qualities with desired ability to take right decisions.</p> <ul style="list-style-type: none"> • Time management • Effect of Leadership with historical examples • Interview Skills • Conflict Motives- Resolution

Sr. No.	Modules / Units
5	Specialized Subject: Army Or Navy Or Air
	<p>Army</p> <p>Desired outcome: It will acquaint, expose & provide knowledge about Army/ Navy/ Air force and to acquire information about expanse of Armed Forces ,service subjects and important battles</p> <p>A. Armed Force</p> <ul style="list-style-type: none"> • Task and Role of Fighting Arms • Modes of Entry to Army • Honors and Awards <p>B. Introduction to Infantry and weapons and equipments</p> <ul style="list-style-type: none"> • Characteristics of 5.56mm INSAS Rifle, Ammunition, Fire power, Stripping, Assembling and Cleaning • Organization of Infantry Battalion. <p>C. Military history</p> <ul style="list-style-type: none"> • Study of battles of Indo-Pak War 1965,1971 and Kargil • War Movies <p>D. Communication</p> <ul style="list-style-type: none"> • Characteristics of Walkie-Talkies • Basic RT Procedure • Latest trends and Development (Multi Media, Video Conferencing, IT) <p style="text-align: center;">OR</p> <p>Navy</p> <p>A. Naval orientation and service subjects</p> <ul style="list-style-type: none"> • Organization of Ship- Introduction on Onboard Organization • Naval Customs and Traditions • Mode of Entry into Indian Navy • Branches of the Navy and their functions • Naval Campaign (Battle of Atlantic, Pearl Harbour, Falkland War/Fleet Review/ PFR/ IFR)s <p>B. Ship and Boat Modelling</p> <ul style="list-style-type: none"> • Types of Models • Introduction of Ship Model- Competition Types of Model Prepare in NSC and RDC • Care and handling of power-tools used- maintenance and purpose of tools

Sr. No.	Modules / Units
	<p>C. Search and Rescue</p> <ul style="list-style-type: none"> • Role of Indian Coast Guard related to SAR <p>D. Swimming</p> <ul style="list-style-type: none"> • Floating and Breathing Techniques- Precautions while Swimming <p style="text-align: center;">OR</p> <p><u>AIR</u></p> <p>A. General Service Knowledge</p> <ul style="list-style-type: none"> • Organization Of Air Force • Branches of the IAF. <p>B. Principles of Flight</p> <ul style="list-style-type: none"> • Venturi Effect • Aerofoil • Forces on an Aircraft • Lift and Drag <p>C. Airmanship</p> <ul style="list-style-type: none"> • ATC/RT Procedures • Aviation Medicine <p>D. Aero- Engines</p> <ul style="list-style-type: none"> • Types of Engines • Piston Engines • Jet Engines • Turboprop Engines

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2B. Skill Enhancement Courses (SEC)

Foundation Course in Physical Education - III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Overview of Nutrition	10
2	Evaluation of Health, Fitness and Wellness	10
3	Prevention and Care of Exercise Injuries	10
4	Sports Training	15
Total		45

Sr. No.	Modules / Units
1	Overview of Nutrition
	<ul style="list-style-type: none"> • Introduction to nutrition & its principles • Role of Nutrition in promotion of health • Dietary Guidelines for Good Health • Regulation of water in body and factors influencing body temperature.
2	Evaluation of Health, Fitness and Wellness
	<ul style="list-style-type: none"> • Meaning & Concept of holistic health • Evaluating Personal health-basic parameters • Evaluating Fitness Activities – Walking & Jogging • Myths & mis-conceptions of Personal fitness
3	Prevention and Care of Exercise Injuries
	<ul style="list-style-type: none"> • Types of Exercise Injuries • First Aid- Importance & application in Exercise Injuries • Management of Soft tissues injuries • Management of bone injuries
4	Sports Training
	<ul style="list-style-type: none"> • Definition, aims & objectives of Sports training • Importance of Sports training • Principles of Sports training • Drug abuse & its effects

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3. Core Courses (CC)

Business Law (Business Regulatory Framework) - II

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	The Indian Partnership Act - 1932	30
2	Limited Liability Partnership Act - 2008	10
3	Factories Act - 1948	20
Total		60

Sr. No.	Modules / Units
1	The Indian Partnership Act - 1932
	a) Concept of Partnership - Partnership and Company - Test for determination of existence for partnership - Kinds of partnership b) Registration and effects of non-registration of Partnership c) Rights and Duties of Partners d) Authority and Liability of partners e) Admission, Retirement and Expulsion of Partner f) Dissolution of Partnership
2	Limited Liability Partnership Act – 2008
	a) Nature of Limited Liability Partnership b) Incorporation of Limited Liability Partnership c) Extent and Limitation of Liability of Limited Liability Partnership and Partners d) Contributions e) Conversion Into Limited Liability Partnership f) Winding Up and Dissolution
3	Factories Act – 1948
	a) Definitions <ul style="list-style-type: none"> • Section 2 (k) – Manufacturing Process, • Section 2 (l) – Workers • Section 2 (m) – Factory b) Provisions pertaining to <ol style="list-style-type: none"> i. Health- Section 11 to Section 20 ii. Safety- Section 21 to Section 41 iii. Welfare- Section 42 to Section 49

Note: Relevant Law/ Statute/ Rules in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuring examination after relevant year.

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3. Core Courses (CC)

Business Economics - II

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Overview of Macroeconomics	10
2	Money, prices and Inflation	10
3	Introduction to Public Finance	10
4	Public revenue, Public Expenditure and Debt	20
5	Fiscal Management and Financial Administration	10
	Total	60

Sr. No.	Modules / Units
1	Overview of Macroeconomics
	<p>Macroeconomics: Meaning, Scope and Importance.</p> <p>Circular flow of aggregate income and expenditure and its Importance- closed and open economy models</p> <p>The Measurement of National Product: Meaning and Importance of National Income Accounting- conventional and Green GNP and NNP concepts -National Income and Economic Welfare.</p> <p>Trade Cycles: Features and Phases</p> <p>Classical Macro economics : Say's law of Markets - Features, Implications and Criticism</p>
2	Money, prices and Inflation
	<p>Money Supply: Determinants of Money Supply - Factors influencing Velocity of Circulation of Money</p> <p>Demand for Money : Classical and Keynesian approaches and Keynes' liquidity preference theory of interest - Friedman's restatement of Demand for money</p> <p>Money and prices : Quantity theory of money - Fisher's equation of exchange - Cambridge cash balance approach</p> <p>Inflation : Demand Pull Inflation and Cost Push Inflation - Effects of Inflation- Nature of inflation in a developing economy - policy measures to curb inflation- monetary policy and inflation targeting</p>
3	Introduction to Public Finance
	<p>Meaning and Scope of Public finance.</p> <p>Major fiscal functions : allocation function, distribution function & stabilization function</p> <p>Principle of Maximum Social Advantage: Dalton and Musgrave Views - the Principle in Practice, Limitations.</p> <p>Relation between Efficiency, Markets and Governments</p> <p>The concept of Public Goods and the role of Government</p>
4	Public revenue, Public Expenditure and Debt
	<p>Sources of Public Revenue : tax and non-tax revenues</p> <p>Objectives of taxation - Canons of taxation - Types of taxes : direct and indirect - Tax Base and Rates of taxation : proportional, progressive and regressive taxation</p> <p>Shifting of tax burden: Impact and incidence of taxation - Processes- factors influencing incidence of taxation</p> <p>Economic Effects of taxation: on Income and Wealth, Consumption, Savings, Investments and Production.</p> <p>Redistributive and Anti – Inflationary nature of taxation and their implications</p> <p>Public Expenditure: Canons - classification - economic effects of public spending - on production, consumption, distribution, employment and stabilization - Theories of Public Expenditure: Wagner's Hypothesis and Wiseman Peacock Hypothesis - Causes for Public Expenditure Growth.</p> <p>Significance of Public Expenditure: Social security contributions- Low Income Support and Social Insurance Programmes.</p> <p>Public Debt : Classification - Burden of Debt Finance : Internal and External- Public Debt and Fiscal Solvency</p>

5	Fiscal Management and Financial Administration
	<p>Fiscal Policy: Meaning, Objectives, constituents and Limitations.</p> <p>Contra cyclical Fiscal Policy and Discretionary Fiscal Policy : Principles of Sound and Functional Finance</p> <p>Budget- Meaning objectives and types - Structure of Union budget - Deficit concepts-Fiscal Responsibility and Budget Management Act.</p> <p>Intergovernmental Fiscal Relations : fiscal federalism and fiscal decentralization - central-state financial relations - 14th Finance Commission recommendations</p>

B.Com. (Accounting and Finance) Programme
Under Choice Based Credit, Grading and Semester System
Course Structure

(To be implemented from Academic Year 2017-2018)

Semester IV

No. of Courses	Semester IV	Credits
1	<i>Elective Courses (EC)</i> *Any three courses from the following list of the courses	
1	Financial Accounting (Special Accounting Areas) - IV	03
2	Management Accounting (Introduction to Management Accounting)	03
3	Auditing - III	03
4	Taxation - III (Direct Taxes- II)	03
5	Wealth Management	03
2	<i>Ability Enhancement Courses (AEC)</i>	
2A	<i>Ability Enhancement Compulsory Course (AECC)</i>	
4	Information Technology in Accountancy - II	03
2B	<i>**Skill Enhancement Courses (SEC)</i>	
5	Any one course from the following list of the courses	02
3	<i>Core Courses (CC)</i>	
6	Business Law (Company Law) - III	03
7	Research Methodology in Accounting and Finance	03
Total Credits		20

<i>**List of Skill Enhancement Courses (SEC) for Semester IV (Any One)</i>	
1	Foundation Course in Management (Introduction to Management) - IV
2	Foundation Course – Contemporary Issues - IV
3	Foundation Course in NSS - IV
4	Foundation Course in NCC - IV
5	Foundation Course in Physical Education - IV

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1. Elective Courses (EC)

Financial Accounting (Special Accounting Areas) - IV

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Preparation of Final Accounts of Companies.	15
2	Redemption of Preference Shares	10
3	Redemption of Debentures	15
4	Ascertainment and Treatment of Profit Prior to Incorporation	10
5	Foreign Branch	10
	Total	60

Sr. No.	Modules / Units
1	Preparation of Final Accounts of Companies
	<p>Relevant provisions of Companies Act related to preparation of Final Account (excluding cash flow statement)</p> <p>Preparation of financial statements as per Companies Act. (excluding cash flow statement)</p> <p>AS 1 in relation to final accounts of companies (disclosure of accounting policies)</p>
2	Redemption of Preference Shares
	<p>Provision of the Companies Act for redemption of Preference Shares (Sec 55 of the Companies Act, 2013), Companies (Share and Debentures) Rules.</p> <p>Methods of Redemption of fully paid up Preference Shares as per Companies Act, 2013: The proceed of a fresh issue of shares, the capitalisation of undistributed profits and a combination of both, calculation of minimum fresh issue to provide the fund for redemption,</p> <p>(Question on entries and/or Balance Sheet)</p> <p>Note: Companies governed by Section 133 of the Companies Act, 2013 and comply with the accounting standards prescribed for them. Hence, the balance in security premium account not to be utilised for premium payable on redemption of preference shares.</p>
3	Redemption of Debentures
	<p>Introduction : Provisions of Section 71 (1) and (4) of the Companies Act, 2013, Creation and investment of DRR including The Companies (Share Capital and Debentures) Rules, 2014, the methods of writing-off discount/loss on issue of debentures; Terms of issue of debentures</p> <p>Methods of redemption of debentures: By payment in lumpsum and by payment in instalments (excluding from by purchase in open market), Conversion.</p> <p>(Question on entries. ledgers and/or Balance Sheet and /or redemption of preference shares)</p>
4	Ascertainment and Treatment of Profit Prior to Incorporation
	<p>Principles for ascertainment</p> <p>Preparation of separate, combined and columnar Profit and Loss Account including different basis of allocation of expenses/ incomes</p>
5	Foreign Branch
	Conversion as per AS 11 and incorporation in HO accounts

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1. Elective Courses (EC)

**Management Accounting
(Introduction to Management Accounting)**

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Management Accounting	05
2	Analysis and Interpretation of Accounts	10
2	Financial Statement analysis: Ratio analysis	15
3	Cash Flow Analysis	15
4	Working Capital Management	15
	Total	60

Sr. No.	Modules / Units
1	Introduction to Management Accounting
	Meaning, Features, Scope, Importance, Functions, role of Management Accounting, Management Accounting Framework, Tools, Management Accounting and Financial Accounting
2	Analysis and Interpretation of Accounts
	a) Vertical Forms of Balance Sheet and Profit and Loss Account suitable for analysis b) Trend Analysis. c) Comparative Statement. d) Common Size Statement. NOTE: Practical Problems based on the above (a) to (d)
3	Financial Statement analysis: Ratio analysis
	Meaning of financial Statement Analysis, steps, Objective and types of Analysis. Ratio analysis: Meaning, classification, Du Point Chart, advantages and Limitations. Balance Sheet Ratios: i) Current Ratio ii) Liquid Ratio iii) Stock Working Capital Ratio iv) Proprietary Ratio v) Debt Equity Ratio vi) Capital Gearing Ratio Revenue Statement Ratios: i) Gross Profit Ratio ii) Expenses Ratio iii) Operating Ratio iv) Net Profit Ratio v) Net Operating Profit Ratio vi) Stock Turnover Ratio Combined Ratio i) Return on Capital employed (Including Long Term Borrowings) ii) Return on proprietor's Fund (Shareholders Fund and Preference Capital) iii) Return on Equity Capital iv) Dividend Payout Ratio v) Debt Service Ratio vi) Debtors Turnover vii) Creditors Turnover
4	Cash Flow Analysis
	Preparation of Cash Flow Statement with reference to Accounting Standard No .3. (Indirect method only))
5	Working Capital Management
	A. Concept, Nature of Working Capital , Planning of Working Capital B. Estimation / Projection of Working Capital Requirement in case of Trading and Manufacturing Organization C. Operating Cycle Practical Problems

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1. Elective Courses (EC)

Auditing - III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Audit Report	15
2	Audit under Computerized Information System Environment	15
3	Professional Ethics	15
4	Investigation and Due Diligence	15
Total		60

Sr. No.	Modules / Units
1	Audit Report
	Reporting requirement under the Companies Act Qualifications in Audit Report, Disclaimers in Audit Report Adverse Opinion, Disclosures, Reports & Certificate
2	Audit under Computerized Information System Environment
	Special aspects of CIS Audit Environment , Need for review of internal control especially procedure controls and facility controls Approach to audit in CIS environment Use of computer for internal and management audit purposes Audit tools, test packs, computerized audit programmes Special aspects in Audit of E-Commerce Transaction.
3	Professional Ethics
	Code of Ethics with special reference to the relevant provisions of The Chartered Accountant Act and the Regulations thereunder The Chartered Accountant Act Schedules Members who are deemed to be in Practice Significance of the Certificate of Practice Disabilities for purpose of Membership Disciplinary Procedure Professional Misconduct
4	Investigation and Due Diligence
	Introduction Auditing and Investigation Steps in Investigation Special aspects in connection with Business Investigation Types of Investigation (only introduction) Meaning of Due Diligence Purpose of Due Diligence

Note: Relevant Law/Statute/Rules in force in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuring examination after relevant year.

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1. Elective Courses (EC)

Taxation - III (Direct Taxes- II)

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Clubbing of Income	05
2	Set Off & Carry Forward of Losses	05
3	Computation of Tax liability of Individual & HUF	05
4	Computation of Income of Partnership Firm in Relation to Sec: 40(b) & Tax Thereon With Applicable Rate of Tax	15
5	Return of Income – Sec 139	05
6	Tax Deduction at Source Advance Tax Interest Payable	15
7	DTAA U/S 90 & 91	05
8	Tax Planning & Ethics in Taxation	05
Total		60

Sr. No.	Modules/ Units
1	Clubbing of Income - Section 60 to 65
2	Set Off & Carry Forward of Losses
	Sec: 70 – Set off Loss from one Source against Income from another Source under the Same Head of Income Sec: 71 – Set Off Loss from One Head against Income of another Head Sec: 71B – Carry Forward & Set off Losses from House Property Sec: 72 – Carry Forward & Set Off of Losses of Business Losses Sec: 73- Losses in Speculation Business Sec: 74- Loss under the head Capital Gains
3	Computation of Tax liability of Individual & HUF
4	Computation of Income of Partnership Firm in Relation to Sec: 40(b) & Tax Thereon With Applicable Rate of Tax
5	Return of Income – Sec 139
	Excluding u/s 139(4A), 139(4B), 139(4C) & 139 (4D)
6	Tax Deduction at Source Advance Tax U/S 207, 208, 209, 210 & 211 Interest Payable U/S 234A, 234B, 234C
	Basic Aspects of Deduction of Taxes at Source Sec: 192 – TDS on Salary Sec: 194A – TDS on Interest Sec: 194C – TDS on Contractor Sec: 194H – TDS on Commission Sec: 194I – TDS on Rent Sec: 194J – TDS on Professional Fees Advance Tax U/S 207, 208, 209, 210 & 211 Sec: 207 – Income Liable to Advance Tax Sec: 208 – Liability of Advance Tax Sec: 209 – Computation of Advance Tax Sec: 210 – Payment of Advance Tax by Assessee on His Own Account Sec: 211 – Due Dates of Payment of Advance Tax Interest Payable U/S 234A, 234B, 234C Sec: 234A – Interest for default in furnishing return of income Sec: 234B – Interest for default in payment of advance tax Sec: 234C – Interest for deferment of advance tax
7	DTAA U/S 90 & 91
8	Tax Planning & Ethics in Taxation – Basic Concepts

Note:

1. Relevant Law / Statute in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuing examinations after relevant year.
2. The syllabus is restricted to study of particular section/s, specifically mentioned rules and notifications only.

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1. Elective Courses (EC)

Wealth Management

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Wealth Management	10
2	Important Numerical Concepts	20
3	Wealth Management Process	15
4	Operational Aspects of Wealth Management	15
Total		60

Sr. No.	Modules / Units
1	Introduction to Wealth Management
	Definition Wealth management and its evolution Wealth management process and phases Nature and structure of Primary and Secondary capital market Comparison between various options for investing and Risk & return analysis Role of Wealth Manager : Obligation and Responsibilities of wealth manager Qualification , Capital requirement, certification to become investment advisor Code of conduct and ethics in providing financial advice
2	Important Numerical Concepts
	Simple interest, Compound interest, Discounted cash flow and installment calculation Correlation, Standard deviation, covariance & Beta of portfolio Share valuation Bond valuation
3	Wealth Management Process
	Developing a Wealth Management Plan Essentials of a Comprehensive Wealth Plan Analysis of Different financial Products for investment Risk profiling of the client Portfolio construction Modern Portfolio Theory for constructing a portfolio
4	Operational Aspects of wealth management
	Types of investors PAN and KYC process Dematerialization and rematerialization of securities Power of Attorney Account opening Process of Non Resident Documentation of financial advisor

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2A. Ability Enhancement Courses (AEC)

Information Technology in Accountancy - II

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Business Process	15
2	Computerized accounting system	20
3	Concept of MIS Reports in Computer Environment	15
4	IT and Auditing	10
Total		60

Sr. No.	Modules / Units
1	Business Process
	<p>Introduction, Definition and Meaning of business process Flow of business process for accounting, purchase, sales and finance Classification of business processes Introduction, Definition and Meaning of Business Process Management Principles and practices of Business Process Management Business Process Management life cycle Theories of Business Management Process Implementation of Business process Management – need, key factors and importance Automation of business Processes – benefits, risks, challenges Accounting systems automation IT and Business Process Management Information systems – Meaning, Use of IT in accountancy</p>
2	Computerized accounting system
	<p>Introduction and meaning Uses and Benefits Role Need and requirements of computerized accounting Basic requirements of computerized accounting system Limitations of computerized accounting system Understand the development and design of a computerized accounting system; determining how the accounting data will be processed, i.e. what accounts and books are needed and what is the desired output i.e. financial reports and other reports. Accounting Software Introduction and meaning Advantages of accounting software Uses of Accounting software Various accounting softwares Accounting software TALLY – Accounting and reports</p>
3	Concept of MIS Reports in Computer Environment
	<p>Introduction Concept of MIS Need for MIS Characteristic of MIS Outputs of MIS Role of MIS Guidelines for Developing MIS reports Functional Aspects of the MIS: Problems in MIS Knowledge required for studying MIS MIS and Computer</p>
4	IT and Auditing
	<p>Need and importance of IT in auditing Auditing in IT environment</p>

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2B. Skill Enhancement Courses (SEC)

**Foundation Course in Management
(Introduction to Management) - IV**

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Basic Management Concepts	05
2	Planning	10
3	Organising	10
4	Staffing	10
5	Directing and Controlling	10
	Total	45

Sr. No.	Modules / Units
1	Introduction to Basic Management Concepts
	Introduction to Management, Definition of Management Nature of Management Objectives of Management Administration vs Management Levels of Management Principles of Management
2	Planning
	Definition and Importance of Planning Process of Planning Limitations of Planning Features of Sound Planning Features and process of decision making
3	Organising
	Definition, nature and significance Process of organisation Principles of organisation Formal and Informal organisation - features, advantages and disadvantages Centralisation and decentralisation – factors, merits and demerits Departmentation and Delegation
4	Staffing
	Meaning, Importance of Staffing Recruitment and its sources Selection procedure Distinction between Recruitment and Selection Employment tests and types of Interview
5	Directing and Controlling
	Meaning and Importance of directing Principles of Directing Leadership traits and Styles Motivation – Importance and Factors Co-ordination – Meaning, features and Importance Meaning and steps in controlling Essentials of a good control system

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2B. Skill Enhancement Courses (SEC)

Foundation Course- Contemporary Issues- IV

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Significant, Contemporary Rights of Citizens	12
2	Approaches to understanding Ecology	11
3	Science and Technology –II	11
4	Introduction to Competitive Exams	11
Total		45

Sr. No.	Modules / Units
1	Significant, Contemporary Rights of Citizens
	<p>A. Rights of Consumers-Violations of consumer rights and important provisions of the Consumer Protection Act, 2016; Other important laws to protect consumers; Consumer courts and consumer movements. (3 Lectures)</p> <p>B. Right to Information- Genesis and relation with transparency and accountability; important provisions of the Right to Information Act, 2005; some success stories. (3 Lectures)</p> <p>C. Protection of Citizens'/Public Interest-Public Interest Litigation, need and procedure to file a PIL; some landmark cases. (3 Lectures)</p> <p>D. Citizens' Charters, Public Service Guarantee Acts. (3 Lectures)</p>
2	Approaches to understanding Ecology
	<p>A. Understanding approaches to ecology- Anthropocentrism, Biocentrism and Eco centrism, Ecofeminism and Deep Ecology. (3 Lectures)</p> <p>B. Environmental Principles-1: the sustainability principle; the polluter pays principle; the precautionary principle. (4 Lectures)</p> <p>C. Environmental Principles-2: the equity principle; human rights principles; the participation principle. (4 Lectures)</p>
3	Science and Technology –II
	<p>Part A:Some Significant Modern Technologies, Features and Applications (7 Lectures)</p> <p>i. Laser Technology- Light Amplification by Stimulated Emission of Radiation; use of laser in remote sensing, GIS/GPS mapping, medical use.</p> <p>ii. Satellite Technology- various uses in satellite navigation systems, GPS, and imprecise climate and weather analyses.</p> <p>iii. Information and Communication Technology- convergence of various technologies like satellite, computer and digital in the information revolution of today's society.</p> <p>iv. Biotechnology and Genetic engineering- applied biology and uses in medicine, pharmaceuticals and agriculture; genetically modified plant, animal and human life.</p> <p>v. Nanotechnology- definition: the study, control and application of phenomena and materials at length scales below 100 nm; uses in medicine, military intelligence and consumer products.</p> <p>Part B:Issues of Control, Access and Misuse of Technology. (4 Lectures)</p>

Sr. No.	Modules / Units
4	Introduction to Competitive Exams
	<p>Part A. Basic information on Competitive Examinations- the pattern, eligibility criteria and local centres:</p> <ul style="list-style-type: none"> i. Examinations conducted for entry into professional courses - Graduate Record Examinations (GRE), Graduate Management Admission Test (GMAT), Common Admission Test (CAT) and Scholastic Aptitude Test (SAT). ii. Examinations conducted for entry into jobs by Union Public Service Commission, Staff Selection Commission (SSC), State Public Service Commissions, Banking and Insurance sectors, and the National and State Eligibility Tests (NET / SET) for entry into teaching profession. <p>Part B. Soft skills required for competitive examinations- (7 Lectures)</p> <ul style="list-style-type: none"> i. Information on areas tested: Quantitative Ability, Data Interpretation, Verbal Ability and Logical Reasoning, Creativity and Lateral Thinking ii. Motivation: Concept, Theories and Types of Motivation iii. Goal-Setting: Types of Goals, SMART Goals, Stephen Covey's concept of human endowment iv. Time Management: Effective Strategies for Time Management v. Writing Skills: Paragraph Writing, Report Writing, Filing an application under the RTI Act, Consumer Grievance Letter.

References

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2. Bajpai, Asha, *Child Rights in India*, Oxford University Press, New Delhi, 2010.
3. Bhatnagar Mamta and Bhatnagar Nitin, *Effective Communication and Soft Skills*, Pearson India, New Delhi, 2011.
4. G Subba Rao, *Writing Skills for Civil Services Examination*, Access Publishing, New Delhi, 2014
5. Kaushal, Rachana, *Women and Human Rights in India*, Kaveri Books, New Delhi, 2000.
6. Mohapatra, Gaur Krishna Das, *Environmental Ecology*, Vikas, Noida, 2008.
7. Motilal, Shashi, and Nanda, Bijoy Lakshmi, *Human Rights: Gender and Environment*, Allied Publishers, New Delhi, 2007.
8. Murthy, D. B. N., *Disaster Management: Text and Case Studies*, Deep and Deep Publications, New Delhi, 2013.
9. Parsuraman, S., and Unnikrishnan, ed., *India Disasters Report II*, Oxford, New Delhi, 2013
10. Reza, B. K., *Disaster Management*, Global Publications, New Delhi, 2010.
11. Sathe, Satyaranjan P., *Judicial Activism in India*, Oxford University Press, New Delhi, 2003.
12. Singh, Ashok Kumar, *Science and Technology for Civil Service Examination*, Tata McGraw Hill, New Delhi, 2012.
13. Thorpe, Edgar, *General Studies Paper I Volume V*, Pearson, New Delhi, 2017.

Projects / Assignments (for Internal Assessment)

- i. Projects/Assignments should be drawn for the component on Internal Assessment from the topics in **Module 1 to Module 4**.
- ii. Students should be given a list of possible topics - at least 3 from each Module at the beginning of the semester.
- iii. The Project/Assignment can take the form of Street-Plays / Power-Point Presentations / Poster Exhibitions and similar other modes of presentation appropriate to the topic.
- iv. Students can work in groups of not more than 8 per topic.
- v. Students must submit a hard / soft copy of the Project / Assignment before appearing for the semester end examination.

QUESTION PAPER PATTERN (Semester III)

The Question Paper Pattern for Semester End Examination shall be as follows:

TOTAL MARKS: 75

DURATION: 150 MINUTES

QUESTION NUMBER	DESCRIPTION	MARKS ASSIGNED
1	i. Question 1 A will be asked on the meaning / definition of concepts / terms from all Modules. ii. Question 1 B will be asked on the topic of the Project / Assignment done by the student during the Semester iii. In all 8 Questions will be asked out of which 5 have to be attempted.	a) Total marks: 15 b) For 1 A, there will be 3 marks for each sub-question. c) For 1 B there will be 15 marks without any break-up.
2	Descriptive Question with internal option (A or B) on Module 1	15
3	Descriptive Question with internal option (A or B) on Module 2	15
4	Descriptive Question with internal option (A or B) on Module 3	15
5	Descriptive Question with internal option (A or B) on Module 4	15

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2B. Skill Enhancement Courses (SEC)

Foundation Course in NSS - IV

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Entrepreneurship Development	10
2	Rural Resource Mobilization	10
3	Ideal village & stake of GOS and NGO	13
4	Institutional Social Responsibility and modes of Awareness	12
	Total	45

Sr. No.	Modules / Units
1	Entrepreneurship Development
	UNIT - I Entrepreneurship development Entrepreneurship development- its meaning and schemes Government and self-employment schemes for Entrepreneurship development UNIT - II - Cottage Industry Cottage Industry- its meaning, its role in development process Marketing of cottage products and outlets
2	Rural Resource Mobilization
	UNIT - I - Rural resource mobilization- A case study of eco-village, eco-tourism, agro-tourism UNIT - II - Micro financing with special reference to self-help groups
3	Ideal village & stake of GOS and NGO
	UNIT - I - Ideal village Ideal village- the concept Gandhian Concept of Ideal village Case studies on Ideal village UNIT - II - Government Organisations(GOs) and Non-Government Organisations (NGOs) The concept and functioning
4	Institutional Social Responsibility and modes of Awareness
	UNIT - I - Institutional Social Responsibilities Concept and functioning- case study of adapted village UNIT - II - Modes of awareness through fine Arts Skills Basics of performing Arts as tool for social awareness, street play, creative dance, patriotic song, folk songs and folk dance. Rangoli, posters, flip charts, placards, etc.

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2B. Skill Enhancement Courses (SEC)

Foundation Course in NCC - IV

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Disaster Management, Social Awareness and Community Development	10
2	Health and Hygiene	10
3	Drill with Arms	05
4	Weapon Training	10
5	Specialized Subject: Army Or Navy Or Air	10
Total		45

Sr. No.	Modules / Units
1	Disaster Management, Social Awareness and Community Development
	<p>Disaster Management: Desired outcome: The student shall gain basic information about civil defence organisation / NDMA & shall provide assistance to civil administration in various types of emergencies during natural / manmade disasters</p> <ul style="list-style-type: none"> • Fire Services & Fire fighting • Assistance during Natural / Other Calamities: Flood / Cyclone/ Earth Quake/ Accident etc. <p>Social Awareness and Community Development: Desired outcome: The student shall have an understanding about social evils and shall inculcate sense of whistle blowing against such evils and ways to eradicate such evils.</p> <ul style="list-style-type: none"> • NGOs: Role & Contribution • Drug Abuse & Trafficking • Corruption • Social Evil viz. Dowry/ Female Foeticide/Child Abuse & trafficking etc. • Traffic Control Org. & Anti drunken Driving
2	Health and Hygiene
	<p>Desired outcome: The student shall be fully aware about personal health and hygiene lead a healthy life style and foster habits of restraint and self awareness.</p> <ul style="list-style-type: none"> • Hygiene and Sanitation (Personal and Food Hygiene) • Basics of Home Nursing & First-Aid in common medical emergencies • Wound & Fractures
3	Drill with Arms
	<p>Desired outcome: The students will demonstrate the sense of discipline, improve bearing, smartness, and turnout, and develop the quality of immediate and implicit obedience of orders, with good reflexes.</p> <ul style="list-style-type: none"> • Getting on Parade with Rifle and Dressing at the Order • Dismissing and Falling Out • General Salute, Salami Shastra • Squad Drill • Short/Long tail from the order and vice-versa • Examine Arms
4	Weapon Training
	<p>Desired outcome: The student shall have basic knowledge of weapons and their use and handling.</p> <ul style="list-style-type: none"> • The lying position, Holding and Aiming- I • Trigger control and firing a shot • Range procedure and safety precautions • Theory of Group and Snap Shooting • Short range firing, Aiming- II -Alteration of sight

Sr. No.	Modules / Units
5	Specialized Subject: Army Or Navy Or Air
	<p>Army Desired outcome: The training shall instill patriotism, commitment and passion to serve the nation motivating the youth to join the defence forces. It will also acquaint, expose & provide basic knowledge about armed, naval and air-force subjects</p> <p>A. Map reading</p> <ul style="list-style-type: none"> • Setting a Map, finding North and own position • Map to ground, Ground to Map • Point to Point March <p>B. Field Craft and Battle Craft</p> <ul style="list-style-type: none"> • Observation, Camouflage and Concealment • Field Signals • Types of Knots and Lashing <p>C. Introduction to advanced weapons and role of technology (To be covered by the guest lecturers)</p> <p style="text-align: center;">OR</p> <p>Navy</p> <p>A. Naval Communication</p> <ul style="list-style-type: none"> • Semaphore <ul style="list-style-type: none"> ▪ Phonetic Alphabets ▪ Radio Telephony Procedure ▪ Wearing of National Flag, Ensign and Admiral's Flag. <p>B. Seamanship</p> <ul style="list-style-type: none"> • Anchor work <ul style="list-style-type: none"> ▪ Types of Anchor, Purpose and Holding ground • Boat work <ul style="list-style-type: none"> ▪ Demonstrate Rigging a whaler and enterprise boat- Parts of Sail and Sailing Terms ▪ Instructions in Enterprise Class Board including theory of Sailing, Elementary Sailing Tools ▪ Types of Power Boats Used in the Navy and their uses, Knowledge of Anchoring, Securing and Towing a Boat <p>C. Introduction to advanced weapons and role of technology (To be covered by the guest lecturers)</p>

Sr. No.	Modules / Units
	<p style="text-align: center;"><i>OR</i></p> <p>Air</p> <p>A. Air frames</p> <ul style="list-style-type: none"> • Fuselage • Main and Tail Plain <p>B. Instruments</p> <ul style="list-style-type: none"> • Introduction to RADAR <p>C. Aero modelling</p> <ul style="list-style-type: none"> • Flying/ Building of Aero models <p>D. Introduction to advanced weapons and role of technology (To be covered by the guest lecturers)</p>

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2B. Skill Enhancement Courses (SEC)

Foundation Course in Physical Education - III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Stress Management	10
2	Awards, Scholarship & Government Schemes	10
3	Yoga Education	10
4	Exercise Scheduling/Prescription	15
Total		45

Sr. No.	Modules / Units
1	Stress Management
	<ul style="list-style-type: none"> • Meaning & concept of Stress • Causes of Stress • Managing Stress • Coping Strategies
2	Awards, Scholarship & Government Schemes
	<ul style="list-style-type: none"> • State & National level Sports Awards • State Sports Policy & Scholarship Schemes • National Sports Policy & Scholarship Schemes • Prominent Sports Personalities
3	Yoga Education
	<ul style="list-style-type: none"> • Differences between Yogic Exercises & non- Yogic exercises • Contribution of Yoga to Sports • Principles of Asanas & Bandha • Misconceptions about Yoga
4	Exercise Scheduling/Prescription
	<ul style="list-style-type: none"> • Daily Routine Prescription. • Understanding Activity level & Calorie requirement. • Adherence & Motivation for exercise. • Impact of Lifestyle on Health

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3. Core Courses (CC)

Business Law (Company Law) - III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Definitions	10
2	Incorporation of companies	20
3	Public Offer	10
4	Private Placement	10
5	Share Capital and Debentures	10
	Total	60

Sr. No.	Modules / Units
1	Definitions
	Section 2 Clause (2) – Accounting Standard Clause (7) – Auditing Standard Clause (13) – Books of Accounts Clause (31) – Deposit Clause (41) – Financial Year Clause (42) – Foreign Company Clause (47) – Independent Director Clause (48) – Indian Depository Receipts Clause (62) – One Person Company Clause (85) – Small Company
2	Incorporation of companies
	Section 3 to Section 20
3	Public Offer
	Sections 23, 25 to 28, 33, 35, 39
4	Private Placement
	Section 42
5	Share Capital and Debentures
	Sections 43, 46, 47, 52 to 56, 61 to 72

Note: *Relevant Law/Statute/Rules in force in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuring examination after relevant year.*

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3. Core Courses (CC)

Research Methodology in Accounting and Finance

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Research	15
2	Research Design in Accounting and Finance	15
3	Data Collection and Processing	15
4	Interpretation and Report Writing	15
Total		60

Sr. No.	Modules / Units
1	Introduction to Research
	Introduction and meaning of research, Objectives of research, Features and Importance of research in Accounting and Finance, Objectives and Types of research - Basic, Applied, Descriptive, Analytical and Empirical Research. Formulation of research problem : Meaning and Selection Review of Literature
2	Research Design in Accounting and Finance
	Meaning of Introduction, Need, and Good research design. Hypothesis: Formulation, Sources, Importance and Types Different Research designs
3	Data Collection and Processing
	Data Collection: Introduction and meaning, types of data Primary data: Observation, Experimentation, Interview, Schedules, Survey, Questionnaires, Limitations of Primary data Secondary data: Sources and Limitations Factors affecting the choice of method of data collection. Sampling: Significance, Methods, Factors determining sample size Data Presentation: Significance in Research, Stages in Data Processing: Editing, Coding, Classification, Tabulation, Graphic Presentation Statistical Analysis: Tools and Techniques, Measures of Central Tendency, Measures of Dispersion, Correlation Analysis and Regression Analysis. Use of computer and internet in data collection and processing
4	Interpretation and Report Writing
	Meaning and techniques of interpretation, Research Report Writing: Importance, Essentials, Structure/ layout, Types

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Reference Books

Reference Books
Financial Accounting (Special Accounting Areas) III
<ul style="list-style-type: none">• <i>Introduction to Accountancy</i> by T.S. Grewal, S. Chand and Company (P) Ltd., New Delhi• <i>Advance Accounts</i> by Shukla and Grewal, S. Chand and Company (P) Ltd., New Delhi• <i>Advanced Accountancy</i> by R.L Gupta and M. Radhaswamy, S. Chand and Company (P) Ltd., New Delhi• <i>Modern Accountancy</i> by Mukherjee and Hanif, Tata Mc. Grow Hill and Co. Ltd., Mumbai• <i>Financial Accounting</i> by Lesile Chandwichk, Pentice Hall of India Adin Bakley (P) Ltd., New Delhi• <i>Financial Accounting for Management</i> by Dr. Dinesh Harsalekar, Multi-Tech. Publishing Co. Ltd., Mumbai• <i>Financial Accounting</i> by P.C. Tulsian, Pearson Publications, New Delhi• <i>Accounting Principles</i> by R.N. Anthony and J.S. Reece, Richard Irwin, Inc• <i>Financial Accounting</i> by Monga, J.R. Ahuja, Girish Ahuja and Ashok Shehgal, Mayur Paper Back, Noida• <i>Compendium of Statement and Standard of Accounting</i>, ICAI• <i>Indian Accounting Standards</i>, Ashish Bhattacharya, Tata Mc. Grow Hill and Co. Ltd., Mumbai• <i>Financial Accounting</i> by Williams, Tata Mc. Grow Hill and Co. Ltd., Mumbai• <i>Company Accounting Standards</i> by Shrinivasan Anand, Taxman, New Delhi• <i>Financial Accounting</i> by V. Rajasekaran, Pearson Publications, New Delhi• <i>Introduction to Financial Accounting</i> by Horngren, Pearson Publications, New Delhi• <i>Financial Accounting</i> by M. Mukherjee and M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi• <i>Financial Accounting a Managerial Perspective</i>, Varadraj B. Bapat, Mehul Raithatha, Tata McGraw Hill Education Pvt. Ltd., New Delhi
Cost Accounting (Methods of Costing) II
<ul style="list-style-type: none">• <i>Lectures on Costing</i> by Swaminathan: S. Chand and Company (P) Ltd., New Delhi• <i>Cost Accounting</i> by C.S. Rayudu, Tata Mc. Grow Hill and Co. Ltd., Mumbai• <i>Cost Accounting</i> by Jawahar Lal and Seema Srivastava, Tata Mc. Grow Hill and Co. Ltd., Mumbai• <i>Cost Accounting</i> by Ravi M. Kishore, Taxmann Ltd., New Delhi• <i>Principles and Practices of Cost Accounting</i> by N.K. Prasad, Book Syndicate Pvt. Ltd., Calcutta• <i>Cost Accounting Theory and Practice</i> by B.K. Bhar, Tata Mc. Grow Hill and Co. Ltd., Mumbai• <i>Cost Accounting Principles and Practice</i> by M.N. Arora, Vikas Publishing House Pvt. Ltd., New Delhi• <i>Advanced Cost and Management Accounting: Problems and Solutions</i> by V.K. Saxena and C.D. Vashist, S. Chand and Company (P) Ltd., New Delhi• <i>Cost Accounting</i> by S.P. Jain and K.L. Narang, Kalyani Publishers, Ludhiana• <i>Modern Cost and Management Accounting</i> by M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi
Auditing (Techniques of Auditing and Audit Procedures)- II
<ul style="list-style-type: none">• <i>Contemporary Auditing</i> by Kamal Gupta published by Tata McGraw Hills• <i>A Handbook of Practical Auditing</i> by B N Tandon published by S Chand & Co. New Delhi• <i>Fundamentals of auditing</i> by Kamal Gupta and Ashok Arora published by Tata McGraw Hills• <i>Textbook of Auditing</i> by Batra and Bagradia published by Tata McGraw Hills• <i>Practical Auditing</i> by S V Ghatalia published by Spicer & Pegler

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Taxation II (Direct Taxes – I)

- *Direct Taxes Law & Practice* by V.K. Singhania - Taxman
- *Systematic Approach to Direct Tax* by Ahuja & Gupta - Bharat Law House
- *Income Tax Ready Reckoner* by Dr .V.K. Singhania - Taxman
- *Direct Tax Laws* by T.N. Manoharan - Snow White

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- *Bank Financial Management Paperback – 2010* by IIBF (Indian Institute of Banking and Finance)
- *Money Banking And Finance Paperback – 2009* by N K Sinha
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- *Principles and Practices of Banking 11 edition Paperback – 2015* by N S Toor, Arun Deep Toor
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- *Social and Economic Problems in India*, Naseem Azad, R Gupta Pub (2011)
- *Indian Society and Culture*, Vinita Padey, Rawat Pub (2016)
- *Social Problems in India*, Ram Ahuja, Rawat Pub (2014)
- *Faces of Feminine in Ancient , medieval and Modern India*, Mandakranta Bose Oxford University Press
- *National Humana rights commission- disability Manual*
- *Rural, Urban Migration : Trends, challenges & Strategies*, S Rajagopalan, ICAFI- 2012
- *Regional Inequilities in India* Bhat L SSSRD- New Delhi
- *Urbanisation in India: Challenges, Opportunities & the way forward*, I J Ahluwalia, Ravi Kanbur, P K Mohanty, SAGE Pub (2014)
- *The Constitution of India*, P M Bakshi 2011
- *The Problems of Linguistic States in India*, Krishna Kodesia Sterling Pub
- *Politics in India: structure, Process and Policy* Subrata Mitra, Routledge Pub
- *Politics in India*, Rajani Kothari, Orient Blackswan
- *Problems of Communalism in india*, Ravindra Kumar Mittal Pub
- *Combating communalism in India: Key to National Integration*, Kawal Kishor Bhardwaj, Mittal Pub

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- *National Service Scheme Manual (Revised) 2006*, Government of India, Ministry of Youth Affairs and Sports, New Delhi.
- *University of Mumbai National Service Scheme Manual 2009.*
- *Avhan Chancellor's Brigade - NSS Wing, Training camp on Disaster Preparedness Guidelines, March 2012*
- *Rashtriya Seva Yojana Sankalpana - Prof. Dr. Sankay Chakane, Dr. Pramod\Pabrekar, Diamond Publication, Pune*
- *National Service Scheme Manual for NSS District Coordinators*, National Service Scheme Cell, Dept. of Higher and Technical Education, Mantralaya,
- *Annual report of National Service Scheme (NSS) published by Dept. of Higher and Technical Education, Mantralaya,*
- *NSS Cell, Dept. of Higher and Technical Education, Mantralaya, UTKARSHA- Socio and cultural guidelines*
- *Case material as a Training Aid for Field Workers*, Gurmeet Hans.
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- *Ecology and the Politics of survival : Conflict over Natural Resources in India*, Shiva , Vandana, Sage Publications , California , 1991

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- *Lippian Cott Williams and Wilkins* 2006.
- *American College of Sports Medicine, ACSM's, Guidelines for Exercise Testing and Prescription. (2013) Ninth Edition*, Lippian Cott Williams and Wilkins.
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- *Murgesh N. – Anatomy, Physiology and Health Education, Sathya, Chinnalapatti, 1990.*
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- *Fundamentals of Computers – Rajaram V – Prentice Hall*
 - *Computer today (3rd edition) – Sanders, Donald H – McGraw Hill*
 - *Computers and Common sense – Hunt, Roger and Shelly John – Prentice Hall*
 - *Computers – Subramaniam N – Wheeler*
 - *Introduction to Computers – Xavier C. – New Age*
 - *Computer in Business – Sanders D – McGraw Hill*
 - *Computers and Information Management – S C Bhatnagar & V Ramant – Prentice Hall*
 - *Internet for Business – Brummer, Lavrej – Cambridge*
 - *E-mail for Everyone – Leon Alexis & Leon – Methews*
- Basic Computer Programmes for Business – Sternberg C – New Jersey Hayden*

Business Law (Business Regulatory Framework) -II

- *An introductory guide to Central Labour Legislation – W A Dawson*
- *Industrial Law – P L Malik*
- *Personnel Management and Industrial relations – Kapur S , Punia B – Gurgaon SK*
- *Labour participation in Management – Mhetras V Manaklals*
- *Law of Partnership, by J P Singhal (Author)*
- *Partnership Act, 1932 with State Amendments*
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- *Indian Partnership Act 1932*
- *Limited Liability Partnership Act 2008*

Business Economics

- *Ackley.G (1976), Macro Economic Theory and Policy, Macmillan Publishing Co. New York*
- *Ahuja. H.L., Modern Economics — S.Chand Company Ltd. New Delhi.*
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- *David N. Hyman : Public Finance A Contemporary Application of theory of policy, Krishna Offset, Delhi*
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- *Musgrave, R.A and P.B. Musgrave (1976) : Public Finance in Theory and Practice, Tata McGraw Hill, Kogakusha, Tokyo*
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**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
Programme at Semester IV
with effect from the Academic Year 2016-2017**

Reference Books

Reference Books
Financial Accounting (Special Accounting Areas) IV
<ul style="list-style-type: none"> • <i>Introduction to Accountancy</i> by T.S. Grewal, S. Chand and Company (P) Ltd., New Delhi • <i>Advance Accounts</i> by Shukla and Grewal, S. Chand and Company (P) Ltd., New Delhi • <i>Advanced Accountancy</i> by R.L Gupta and M. Radhaswamy, S. Chand and Company (P) Ltd., New Delhi • <i>Modern Accountancy</i> by Mukherjee and Hanif, Tata Mc. Grow Hill and Co. Ltd., Mumbai • <i>Financial Accounting</i> by Lesile Chandwichk, Pentice Hall of India Adin Bakley (P) Ltd., New Delhi • <i>Financial Accounting for Management</i> by Dr. Dinesh Harsalekar, Multi-Tech. Publishing Co. Ltd., Mumbai • <i>Financial Accounting</i> by P.C. Tulsian, Pearson Publications, New Delhi • <i>Accounting Principles</i> by R.N. Anthony and J.S. Reece, Richard Irwin, Inc • <i>Financial Accounting</i> by Monga, J.R. Ahuja, Girish Ahuja and Ashok Shehgal, Mayur Paper Back, Noida • <i>Financial Accounting</i> by Williams, Tata Mc. Grow Hill and Co. Ltd., Mumbai • <i>Financial Accounting</i> by V. Rajasekaran, Pearson Publications, New Delhi • <i>Introduction to Financial Accounting</i> by Horngren, Pearson Publications, New Delhi • <i>Financial Accounting</i> by M. Mukherjee and M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi • <i>Financial Accounting a Managerial Perspective</i>, Varadraj B. Bapat, Mehul Raithatha, Tata McGraw Hill Education Pvt. Ltd., New Delhi
Management Accounting (introduction to Management Accounting)
<ul style="list-style-type: none"> • <i>Cost Management</i> by Saxena & Vashist • <i>Cost & Management Accounting</i> by Ravi N.Kishor ,Publication Taxmonth • <i>Essential of Management Accounting</i> by P.N.Reddy,Himalaye • <i>Advanced Management Accounting</i> by Robert S Kailar,Holl • <i>Financial Of Management Accounting</i> by S.R.Varshney,Wisdom • <i>Introduction Of Management Accounting</i> by Charbs T Horngren, PHI Learnng • <i>Management Accounting</i> by I.m.Pandey, Vikas • <i>Cost & Management Accounting</i> by D.K.Mattal,Galgotia • <i>Management Accounting</i> by Khan & Jain,Tata Megaw • <i>Management Accounting</i> by R.P.Resstogi
Auditing III
<ul style="list-style-type: none"> • <i>Contemporary Auditing</i> by Kamal Gupta, Tata Mc-Graw Hill, New Delhi • <i>A Hand-Book of Practical Auditing</i> by B.N. Tandon, S. Chand and Company, New Delhi • <i>Fundamentals of Auditing</i> by Kamal Gupta and Ashok Arora, Tata McGraw Hill, New Delhi • <i>Auditing: Principles and Practice</i> by Ravinder Kumar, Virender Sharma, PHI Learning Pvt. Ltd., New Delhi • <i>Auditing and Assurance for CA IPCC</i> by Sanjib Kumar Basu, Pearson Education, New Delhi • <i>Contemporary Auditing</i> by Kamal Gupta, McGrow Hill Education Pvt. Ltd., New Delhi • <i>Fundamentals of Auditing</i> by Kamal Arora and Ashok Gupta, Tata McGraw Hill, New Delhi
Taxation III (Direct Taxes II)
<ul style="list-style-type: none"> • <i>Direct Taxes Law & Practice</i> by V.K. Singhanian - Taxman • <i>Systematic Approach to Direct Tax</i> by Ahuja & Gupta - Bharat Law House • <i>Income Tax Ready Reckoner</i> by Dr .V.K. Singhanian - Taxman • <i>Direct Tax Laws</i> by T.N. Manoharan - Snow White

Wealth Management

- *Wealth Engine: Indian Financial Planning and Wealth Management Handbook* by Sankaran S
- *WEALTH MANAGEMENT*, by N/A Dun & Bradstreet

Information Technology in Accountancy II

- *Fundamentals of Computers – Rajaram V – Prentice Hall*
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- *Internet for Business – Brummer, Lavrej – Cambridge*
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- *Basic Computer Programmes for Business – Sternberg C – New Jersey Hayden*

Foundation Course in Management (Introduction to Management) - IV

- *Essentials of Management* by Koontz H & W published by McGraw Hill
- *Principles of Management* by Ramaswamy published by Himalaya
- *Management Concept and Practice* by Hannagain T published by McMillan
- *Basic Managerial Skills for All* by McGrath E.H published by Prentice Hall of India
- *Management – Text and Cases* by VSP Rao published by Excel Books
- *Essentials of Management* by Massie Joseph published by Prentice Hall of India
- *Management: Principles and Guidelines* by Thomas Duening & John Ivancevich published by Biztantra
- *Management Concepts and Strategies* by J S Chandran published by Vikas Publishing House
- *Principles of Management* by Tripathy P C published by Tata McGraw Hill
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- *National Service Scheme Manual (Revised) 2006, Government of India, Ministry of Youth Affairs and Sports, New Delhi.*
- *University of Mumbai National Service Scheme Manual 2009.*
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- *Cadet's Hand book – Specialised Subjects, Army, Navy, Air-force, BY DG NCC, New Delhi.*
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**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
Programme at Semester III and IV
with effect from the Academic Year 2017-2018**

Scheme of Evaluation

The performance of the learners will be evaluated in two Components. One component will be the Internal Assessment component carrying 25% marks and the second component will be the Semester-wise End Examination component carrying 75% marks. The allocation of marks for the Internal Assessment and Semester End Examinations will be as shown below:-

A) Internal Assessment: 25 %

Question Paper Pattern

(Internal Assessment- Courses without Practical Courses)

Sr. No.	Particular	Marks
1	One class test (20 Marks)	
	Match the Column/ Fill in the Blanks/ Multiple Choice Questions <i>(½ Mark each)</i>	05 Marks
	Answer in One or Two Lines (Concept based Questions) <i>(01 Mark each)</i>	05 Marks
	Answer in Brief (Attempt Any Two of the Three) <i>(05 Marks each)</i>	10 Marks
2	Active participation in routine class instructional deliveries and overall conduct as a responsible learner, mannerism and articulation and exhibit of leadership qualities in organizing related academic activities	05 Marks

Question Paper Pattern

(Internal Assessment- Courses with Practical Courses)

Sr. No.	Particular	Marks
1	Semester End Practical Examination (20 Marks)	
	Journal	05 Marks
	Viva	05 Marks
	Laboratory Work	10 Marks
2	Active participation in routine class instructional deliveries and overall conduct as a responsible learner, mannerism and articulation and exhibit of leadership qualities in organizing related academic activities articulation and exhibit of leadership qualities in organizing related academic activities	05 Marks

B) Semester End Examination: 75 %

- i) Duration: The examination shall be of 2 ½ Hours duration
- ii) Theory question paper pattern
 - There shall be five questions each of 15 marks.
 - All questions shall be compulsory with internal choice within the questions.
 - Question may be subdivided into sub-questions a, b, c... and the allocation of marks depends on the weightage of the topic.

(Detail question paper pattern has been given separately)

Passing Standard

The learners to pass a course shall have to obtain a minimum of 40% marks in aggregate for each course where the course consists of Internal Assessment and Semester End Examination. The learners shall obtain minimum of 40% marks (i.e. 10 out of 25) in the Internal Assessment and 40% marks in Semester End Examination (i.e. 30 Out of 75) separately, to pass the course and minimum of Grade E to pass a particular semester A learner will be said to have passed the course if the learner passes the Internal Assessment and Semester End Examination together.

Question Paper Pattern (Practical Courses)

Maximum Marks: 75

Questions to be set: 05

Duration: 2 ½ Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Objective Questions A) Sub Questions to be asked 10 and to be answered any 08 B) Sub Questions to be asked 10 and to be answered any 07 (*Multiple choice / True or False / Match the columns/Fill in the blanks)	15 Marks
Q-2	Full Length Practical Question OR	15 Marks
Q-2	Full Length Practical Question	15 Marks
Q-3	Full Length Practical Question OR	15 Marks
Q-3	Full Length Practical Question	15 Marks
Q-4	Full Length Practical Question OR	15 Marks
Q-4	Full Length Practical Question	15 Marks
Q-5	A) Theory questions B) Theory questions OR	08 Marks 07 Marks
Q-5	Short Notes To be asked 05 To be answered 03	15 Marks

Note:

Practical question of 15 marks may be divided into two sub questions of 7/8 and 10/5 Marks. If the topic demands, instead of practical questions, appropriate theory question may be asked.

Question Paper Pattern (Theoretical Courses)

Maximum Marks: 75

Questions to be set: 05

Duration: 2 ½ Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Objective Questions A) Sub Questions to be asked 10 and to be answered any 08 B) Sub Questions to be asked 10 and to be answered any 07 (*Multiple choice / True or False / Match the columns/Fill in the blanks)	15 Marks
Q-2	Full Length Question OR	15 Marks
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question OR	15 Marks
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question OR	15 Marks
Q-4	Full Length Question	15 Marks
Q-5	A) Theory questions B) Theory questions OR	08 Marks 07 Marks
Q-5	Short Notes To be asked 05 To be answered 03	15 Marks

Note:

Theory question of 15 marks may be divided into two sub questions of 7/8 and 10/5 Marks.

University of Mumbai



**Revised Syllabus
and
Question Paper Pattern
of Courses
of
Bachelor of Management Studies
(BMS) Programme
Second Year
*Semester III and IV***

**Under Choice Based Credit, Grading and
Semester System**

*(To be implemented from Academic Year- 2017-2018)
Board of Studies-in-Business Management, University of Mumbai*

Bachelor of Management Studies (BMS) Programme

Under Choice Based Credit, Grading and Semester System

Course Structure

SYBMS

(To be implemented from Academic Year- 2017-2018)

No. of Courses	Semester III	Credits	No. of Courses	Semester IV	Credits
1	Elective Courses (EC)		1	Elective Courses (EC)	
1 & 2	*Any one group of courses from the following list of the courses	06	1 & 2	** Any one group of courses from the following list of the courses	06
2	Ability Enhancement Courses (AEC)		2	Ability Enhancement Courses (AEC)	
2A	Ability Enhancement Compulsory Courses (AECC)		2A	Ability Enhancement Compulsory Courses (AECC)	
3	Information Technology in Business Management - I	03	3	Information Technology in Business Management-II	03
2B	Skill Enhancement Courses (SEC)		2B	Skill Enhancement Courses (SEC)	
4	Foundation Course – III	02	4	Foundation course-IV	02
3	Core Courses (CC)		3	Core Courses (CC)	
5	Business Planning & Entrepreneurial Management	03	5	Business Economics-II	03
6	Accounting for Managerial Decisions	03	6	Business Research Methods	03
7	Strategic Management	03	7	Production & Total Quality Management	03
Total Credits		20	Total Credits		20

*List of Skill Enhancement Courses (SEC) for Semester III (Any One)		**List of Skill Enhancement Courses (SEC) for Semester II (Any One)	
1	Foundation Course (Environmental Management) - III	1	Foundation Course (Ethics & Governance) - IV
2	Foundation Course-Contemporary Issues-III	2	Foundation Course-Contemporary Issues-IV
3	Foundation Course in NSS - III	3	Foundation Course in NSS - IV
4	Foundation Course in NCC - III	4	Foundation Course in NCC - IV
5	Foundation Course in Physical Education- III	5	Foundation Course in Physical Education- IV
Note: Course selected in Semester I will continue in Semester III & IV			

*List of group of Elective Courses(EC) for Semester III (Any two)		** List of group of Elective Courses(EC) for Semester IV (Any two)	
Group A: Finance Electives (Any Two Courses)			
1	Basics of Financial Services	1	Financial Institutions & Markets
2	Introduction to Cost Accounting	2	Auditing
3	Equity & Debt Market	3	Strategic Cost Management
4	Corporate Finance	4	Corporate Restructuring
Group B: Marketing Electives (Any Two Courses)			
1	Consumer Behaviour	1	Integrated Marketing Communication
2	Product Innovations Management	2	Rural Marketing
3	Advertising	3	Event Marketing
4	Social Marketing	4	Tourism Marketing
Group C: Human Resource Electives(Any Two Courses)			
1	Recruitment & Selection	1	Human Resource Planning & Information System
2	Motivation and Leadership	2	Training & Development in HRM
3	Employees Relations & Welfare	3	Change Management
4	Organisation Behaviour & HRM	4	Conflict & Negotiation
Note: Group Selected in Semester III will continue in Semester IV.			

Bachelor of Management Studies (BMS)
Programme
Under Choice Based Credit, Grading and Semester System
Course Structure

(To be implemented from Academic Year- 2017-2018)

Semester III

No. of Courses	Semester III	Credits
1	<i>Elective Courses (EC)</i>	
1 & 2	*Any one group of courses from the following list of the courses	06
2	<i>Ability Enhancement Courses (AEC)</i>	
2A	<i>Ability Enhancement Compulsory Course (AECC)</i>	
3	Information Technology in Business Management - I	03
2B	<i>*Skill Enhancement Courses (SEC)</i>	
4	Any one course from the following list of the courses	02
3	<i>Core Courses (CC)</i>	
5	Business Planning & Entrepreneurial Management	03
6	Accounting for Managerial Decisions	03
7	Strategic Management	03
Total Credits		20

<i>*List of Skill Enhancement Courses (SEC) for Semester III (Any One)</i>	
1	Foundation Course (Environmental Management) - III
2	Foundation Course-Contemporary Issues-III
3	Foundation Course in NSS - III
4	Foundation Course in NCC - III
5	Foundation Course in Physical Education - III

**Revised Syllabus of Courses of Bachelor of Management Studies (BMS)
Programme at Semester III
with Effect from the Academic Year 2017-2018**

**Elective Courses (EC)
Group A. Finance Electives**

1. Basics of Financial Services

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Financial System	14
2	Commercial Banks, RBI And Development Banks	16
3	Insurance	15
4	Mutual Funds	15
Total		60

Objectives

SN	Objectives
1	The course aims at explaining the core concepts of business finance and its importance in managing a business
2	The objectives of develop a conceptual frame work of finance function and to acquaint the participants with the tools, types, instruments of financial system in the realm of Indian Financial Market.

Sr. No.	Modules / Units
1	Financial System:
	<ul style="list-style-type: none"> • An overview of Financial System, Financial Markets, Structure of Financial Market (Organised and Unorganized Market), Components of Financial System, Major Financial Intermediaries, Financial Products, Function of Financial System, Regulatory Framework of Indian Financial System(Overview of SEBI and RBI-Role and Importance as regulators).
2	Commercial Banks, RBI And Development Banks
	<ul style="list-style-type: none"> • Concept of Commercial Banks- Functions, Investment Policy of Commercial Banks, Liquidity in Banks, Asset Structure of Commercial Banks, Non-Performing Assets, Interest Rate reforms, Capital Adequacy Norms. • Reserve Bank of India-Organisation &Management, Role And Functions • Development Banks-Characteristics of Development Banks, Need And Emergence of Development Financial Institutions In India, Function of Development Banks.
3	Insurance:
	<ul style="list-style-type: none"> • Concept, Basic Characteristics of Insurance, Insurance Company Operations, Principles of Insurance, Reinsurance, Purpose And Need Of Insurance, Different Kinds of Life Insurance Products, Basic Idea About Fire And Marine Insurance and Bancassurance
4	Mutual Funds:
	<ul style="list-style-type: none"> • Concept of Mutual Funds, Growth of Mutual Funds in India, Features and Importance of Mutual Fund. Mutual Fund Schemes, Money Market Mutual Funds, Private Sector Mutual Funds, Evaluation of the Performance Of Mutual Funds, Functioning of Mutual Funds In India.

**Revised Syllabus of Courses of Bachelor of Management Studies (BMS)
Programme at Semester III
with Effect from the Academic Year 2017-2018**

**Elective Courses (EC)
Group A. Finance Electives**

2. Introduction to Cost Accounting

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction	15
2	Elements of Cost	20
3	Cost Projection	15
4	Emerging Cost Concepts	10
Total		60

Objectives

SN	Objectives
1	This course exposes the students to the basic concepts and the tools used in Cost Accounting
2	To enable the students to understand the principles and procedure of cost accounting and to apply them to different practical situations

Sr. No.	Modules / Units
1	Introduction
	<ul style="list-style-type: none"> • Meaning, Nature and scope-Objective of Cost Accounting-Financial Accounting v/s Cost Accounting- Advantages and disadvantages of Cost Accounting- Elements of Costs-Cost classification (concept only)- - Installation of Cost Accounting System, Process (Simple and Inter process) and Job Costing (Practical Problems)
2	Elements of Cost
	<ul style="list-style-type: none"> • Material Costing- Stock valuation (FIFO & weighted average method), EOQ, EOQ with discounts, Calculation of Stock levels (Practical Problems) • Labour Costing – (Bonus and Incentive Plans) (Practical Problems) • Overhead Costing (Primary and Secondary Distribution)
3	Cost Projection
	<ul style="list-style-type: none"> • Cost Sheet (Current and Estimated)) (Practical Problems) • Reconciliation of financial accounts and cost accounting (Practical Problems)
4	Emerging Cost Concepts
	Uniform Costing and Interfirm Comparison, Emerging Concepts – Target Costing, Benchmarking, JIT, The Balanced Scorecard; Strategic Based Control; concept, process, implementation of Balanced Scorecard, Challenges in implementation of Balanced Scorecard

**Revised Syllabus of Courses of Bachelor of Management Studies (BMS)
Programme at Semester III
with Effect from the Academic Year 2017-2018**

**Elective Courses (EC)
Group A. Finance Electives**

3. Equity and Debt Market

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Financial Market	15
2	Dynamics of Equity Market	15
3	Players in Debt Markets	15
4	Valuation of Equity & Bonds	15
	Total	60

Objectives

SN	Objectives
1	This paper will enable the students to understand the evolution of various aspects of financial markets which in turn will help them in framing the financial policies, development of financial instruments and processes and evolving the strategies during crisis. The teaching will be done mainly through materials available on internet and published research papers

Sr. No.	Modules / Units
1	Introduction to Financial Market
	<ul style="list-style-type: none"> • Equity market – meaning & definitions of equity share; Growth of Corporate sector & simultaneous growth of equity shareholders; divorce between ownership and management in companies; development of Equity culture in India & current position. • Debt market – Evolution of Debt markets in India; Money market & Debt markets in India; Regulatory framework in the Indian Debt market.
2	Dynamics of Equity Market
	<ul style="list-style-type: none"> • Primary: <ol style="list-style-type: none"> 1)IPO – methods followed (simple numerical) 2) Book building 3)Role of merchant bankers in fixing the price 4)Red herring prospectus – unique features 5)Numerical on sweat equity, ESOP & Rights issue of shares • Secondary: <ol style="list-style-type: none"> 1)Definition & functions of stock exchanges 2)Evolution & growth of stock exchanges 3)Stock exchanges in India 4)NSE, BSE OTCEI & overseas stock exchanges 5)Recent developments in stock exchanges 6)Stock market Indices
3	Players in debt markets:
	<ul style="list-style-type: none"> • Players in debt markets: <ol style="list-style-type: none"> 1)Govt. securities 2)Public sector bonds & corporate bonds 3)open market operations 4)Security trading corp. of India 5)Primary dealers in Govt. securities • Bonds: <ol style="list-style-type: none"> 1)Features of bonds 2)Types of bonds
4	Valuation of Equity & Bonds
	<ul style="list-style-type: none"> • Valuation of equity: <ol style="list-style-type: none"> 1. Balance sheet valuation 2. Dividend discount model(zero growth, constant growth & multiple growth) 3. Price earning model • Valuation of bonds <ol style="list-style-type: none"> 1. Determinants of the value of bonds 2. Yield to Maturity 3. Interest rate risk 4. Determinants of Interest Rate Risk

**Revised Syllabus of Courses of Bachelor of Management Studies (BMS)
Programme at Semester III
with Effect from the Academic Year 2017-2018**

**Elective Courses (EC)
Group A. Finance Electives**

4. Corporate Finance

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction	15
2	Capital Structure and Leverage	15
3	Time Value of Money	15
4	Mobilisation of Funds	15
Total		60

Objectives

SN	Objectives
1	The objectives of develop a conceptual frame work of finance function and to acquaint the participants with the tools techniques and process of financial management in the realm of financial decision making
2	The course aims at explaining the core concepts of corporate finance and its importance in managing a business
3	To providing understanding of nature, importance, structure of corporate finance related areas and to impart knowledge regarding source of finance for a business

Sr. No.	Modules / Units
1	Introduction
	<ul style="list-style-type: none"> • Introduction To Corporate Finance: Meaning, Principles of Corporate Finance, Significance of Corporate Finance, Amount of Capitalisation, Over Capitalisation and Under Capitalisation, Fixed capital and Working Capital funds. • Introduction to ownership securities– Ordinary Shares, Reference Shares, Creditor Ship Securities, Debtors and Bonds, Convertible Debentures, Concept of Private Placement of Securities.
2	Capital Structure and Leverage
	<ul style="list-style-type: none"> • Introduction to Capital Structure theories, EBIT – EPS analysis for Capital Structure decision. • Cost of Capital – Cost of Debt, Cost of Preference Shares, Cost of Equity Shares and Cost of Retained Earnings, Calculation of Weighted Cost of Capital. • Introduction to concept of Leverage - Operating Leverage, Financial Leverage and Combined Leverage.
3	Time Value of Money
	<ul style="list-style-type: none"> • Introduction to Time Value of Money – compounding and discounting • Introduction to basics of Capital Budgeting (time value of money based methods) – NPV and IRR (Net Present Value and Internal Rate of Return) • Importance of Risk and Return analysis in Corporate Finance
4	Mobilisation of Funds
	<p>Public deposits and RBI regulations, Company deposits and SEBI regulations, Protection of depositors, RBI and public deposits with NBFC's.</p> <p>Foreign capital and collaborations, Foreign direct Investment (FDI)</p> <p>Emerging trends in FDI</p> <p>Global Depository Receipts, Policy development, Capital flows and Equity Debt.</p> <p>Brief introduction & sources of short term Finance Bank Overdraft, Cash Credit, Factoring</p>

**Revised Syllabus of Courses of Bachelor of Management Studies (BMS)
Programme at Semester III
with Effect from the Academic Year 2017-2018**

**Elective Courses (EC)
Group B. Marketing Electives**

1. Consumer Behaviour

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction To Consumer Behaviour:	14
2	Individual- Determinants of Consumer Behaviour	16
3	Environmental Determinants of Consumer Behaviour	15
4	Consumer decision making models and New Trends	15
Total		60

Objectives

SN	Objectives
1	The basic objective of this course is to develop an understanding about the consumer decision making process and its applications in marketing function of firms
2	This course is meant to equip undergraduate students with basic knowledge about issues and dimensions of Consumer Behaviour. Students are expected to develop the skill of understanding and analysing consumer information and using it to create consumer- oriented marketing strategies.

Sr. No.	Modules / Units
1	Introduction To Consumer Behaviour:
	<ul style="list-style-type: none"> • Meaning of Consumer Behaviour, Features and Importance • Types of Consumer (Institutional & Retail), Diversity of consumers and their behaviour- Types Of Consumer Behaviour • Profiling the consumer and understanding their needs • Consumer Involvement • Application of Consumer Behaviour knowledge in Marketing • Consumer Decision Making Process and Determinants of Buyer Behaviour, factors affecting each stage, and Need recognition.
2	Individual- Determinants of Consumer Behaviour
	<ul style="list-style-type: none"> • Consumer Needs & Motivation (Theories - Maslow, Mc Clelland). • Personality – Concept, Nature of personality, Freudian, non - Freudian and Trait theories, Personality Traits and it's Marketing significance, Product personality and brand personification. • Self Concept – Concept • Consumer Perception • Learning - Theory, Nature of Consumer Attitudes, Consumer Attitude Formation & Change. • Attitude - Concept of attitude
3	Environmental Determinants of Consumer Behaviour
	<ul style="list-style-type: none"> • Family Influences on Buyer Behaviour, • Roles of different members, needs perceived and evaluation rules. • Factors affecting the need of the family, family life cycle stage and size. • Social Class and Influences. • Group Dynamics & Consumer Reference Groups, Social Class & Consumer Behaviour - Reference Groups, Opinion Leaders and Social Influences In-group versus out-group influences, role of opinion leaders in diffusion of innovation and in purchase process. • Cultural Influences on Consumer Behaviour Understanding cultural and sub-cultural influences on individual, norms and their role, customs, traditions and value system.
4	Consumer decision making models and New Trends
	<ul style="list-style-type: none"> • Consumer Decision making models: Howard Sheth Model, Engel Blackwell, Miniard Model, Nicosia Models of Consumer Decision Making • Diffusion of innovations Process of Diffusion and Adoption, Innovation, Decision process, Innovator profiles • E-Buying behaviour The E-buyer vis-a vis the Brick and Mortar buyer, Influences on E-buying

**Revised Syllabus of Courses of Bachelor of Management Studies (BMS)
Programme at Semester III
with Effect from the Academic Year 2017-2018**

**Elective Courses (EC)
Group B. Marketing Electives**

2. Product Innovations Management

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Innovations Management	15
2	Managerial Aspects of Innovations functions	15
3	Product innovations, Process Innovations and Innovations Diffusion	15
4	New Product Development Strategy	15
Total		60

Objectives

SN	Objectives
1	To understand the concept of innovations and relevance of innovations in the present day scenario.
2	To understand the importance of protecting innovations and legal aspects related to innovations
3	To study product innovations, process innovations and innovations diffusion
4	To acquaint the students with stages in new product development

Sr. No.	Modules / Units
1	Innovations Management
	<ul style="list-style-type: none"> • Introduction -Innovations Management Innovations: Concept; Features; Types of Innovations; Innovations management; Features of Innovations Management; Significance of innovations; Principles of innovations. • Thinking Tools for Innovations Left and right brain thinking; Creative thinking; Traditional V/S Creative thinking; Intuition; Introduction to creativity; Process of creativity; Creativity methods • Legal Aspects of innovations Safeguarding innovations; Concept of Intellectual Property Rights; Patents; Patenting trends; trademarks; Industrial designs; Copyrights ;Trade secrets
2	Managerial Aspects of Innovations functions
	<ul style="list-style-type: none"> • Organizing for Innovations Introduction; Concepts; Organizational theories and structures; Traits of innovative organization; Factors influencing organizational design and Size decision. • Strategizing Innovations Introduction; Innovations as a strategy component; Developing innovation strategy; Innovation strategies; Market standing based strategies. • Managing Innovations Functions Introduction; Style at the top; Planning; Organizing; Staffing; Controlling; Characteristics of good management • Climate and culture for innovations Introduction; Need for creative organizations; Characteristics of creative organizations; Creating creative organizations – 7s framework; Fostering innovations climate and culture.
3	Product innovations, Process Innovations and Innovations Diffusion
	<ul style="list-style-type: none"> • Introduction to product innovations Types of new products; Technology strategy for product innovation; New product development process; Packaging innovations; Positioning innovations; New product failures; Cases of Innovating companies. • Process Innovations Introduction; Concept of Process; Features of process; Types of process innovations; Process Management; Process improvement methods; Business process reengineering; Benchmarking. • Innovations Diffusion Introduction; Concept of diffusion and adoption; Impact of innovations; Diffusion as an integral part of innovation strategy; Innovations diffusion theories; Factors influencing diffusion strategy; Internalization of innovations.
4	New Product Development Strategy
	<ul style="list-style-type: none"> • New Product Development and Product specifications Concept of new product development, specifications: Establishment of specifications, Establishing Target specifications; Setting the final specifications. • Concept Generation, Selection and Testing 5 step methods of concept generation, Methods for selecting a concept; Benefits of choosing a structured method; Concept screening; Concept scoring, 7- Test method of concept testing. • Product testing Introduction, Purpose of product testing; Overriding concerns of product testing; Major decision in constructing a product test.

**Revised Syllabus of Courses of Bachelor of Management Studies (BMS)
Programme at Semester III
with Effect from the Academic Year 2017-2018**

**Elective Courses (EC)
Group B. Marketing Electives**

3. Advertising

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Advertising	15
2	Strategy and Planning Process in Advertising	15
3	Creativity in Advertising	15
4	Budget, Evaluation, Current trends and careers in Advertising	15
Total		60

Objectives

SN	Objectives
1	To understand and examine the growing importance of advertising
2	To understand the construction of an effective advertisement
3	To understand the role of advertising in contemporary scenario
4	To understand the future and career in advertising

Sr. No.	Modules / Units
1	Introduction to Advertising
	<ul style="list-style-type: none"> • Definition, Evolution of Advertising, Importance, Scope, Features, Benefits, Five M's of Advertising • Types of Advertising –consumer advertising, industrial advertising, institutional advertising, classified advertising, national advertising, generic advertising • Theories of Advertising : Stimulus Theory, AIDA, Hierarchy Effects Model, Means – End Theory, Visual Verbal Imaging, Cognitive Dissonance • Ethics and Laws in Advertising : Puffery, Shock Ads, Subliminal Advertising, Weasel Claim, Surrogate Advertising, Comparative Advertising Code of Ethics, Regulatory Bodies, Laws and Regulation – CSR, Public Service Advertising, Corporate Advertising, Advocacy Advertising • Social, cultural and Economic Impact of Advertising, the impact of ads on Kids, Women and Advertising
2	Strategy and Planning Process in Advertising
	<ul style="list-style-type: none"> • Advertising Planning process & Strategy : Introduction to Marketing Plan, Advertising Plan- Background, situational analysis related to Advertising issues, Marketing Objectives, Advertising Objectives, Target Audience, Brand Positioning (equity, image personality), creative Strategy, message strategy, media strategy, Integration of advertising with other communication tools • Role of Advertising in Marketing Mix : Product planning, product brand policy, price, packaging, distribution, Elements of Promotion, Role of Advertising in PLC • Advertising Agencies – Functions – structure – types - Selection criteria for Advertising agency – Maintaining Agency–client relationship, Agency Compensation.
3	Creativity in Advertising
	<ul style="list-style-type: none"> • Introduction to Creativity – definition, importance, creative process , Creative strategy development – Advertising Campaign – determining the message theme/major selling ideas – introduction to USP – positioning strategies – persuasion and types of advertising appeals – role of source in ads and celebrities as source in Indian ads – execution styles of presenting ads. • Role of different elements of ads – logo, company signature, slogan, tagline, jingle, illustrations, etc – • Creating the TV commercial – Visual Techniques, Writing script, developing storyboard, other elements (Optical, Soundtrack, Music) • Creating Radio Commercial – words, sound, music – scriptwriting the commercial – clarity, coherence, pleasantness, believability, interest, distinctiveness • Copywriting: Elements of Advertisement copy – Headline, sub-headline, Layout, Body copy, slogans. Signature, closing idea, Principles of Copywriting for print, OOH, essentials of good copy, Types of Copy, Copy Research

Sr. No.	Modules / Units
4	Budget, Evaluation, Current trends and careers in Advertising
	<ul style="list-style-type: none"> • Advertising Budget – Definition of Advertising Budget, Features, Methods of Budgeting • Evaluation of Advertising Effectiveness – Pre-testing and Post testing Objectives, Testing process for Advertising effectiveness, Methods of Pre-testing and Post-testing, Concept testing v/s Copy testing • Current Trends in Advertising : Rural and Urban Advertising, Digital Advertising, Content Marketing (Advertorials), retail advertising, lifestyle advertising, Ambush Advertising, Global Advertising – scope and challenges – current global trends • Careers in Advertising : careers in Media and supporting firms, freelancing options for career in advertising, role of Advertising Account Executives, campaign Agency family tree – topmost advertising agencies and the famous advertisements designed by them

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**Elective Courses (EC)
Group B. Marketing Electives**

4. Social Marketing

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Social Marketing & Its Environment	15
2	Social Marketing Plan, STP and Marketing Mix	15
3	Managing Behaviour for Social Change & NPO & CSR	15
4	Social marketing – A Sectoral Overview & Careers	15
Total		60

Objectives

SN	Objectives
1	Understand the concept of social marketing, compare and contrast marketing in a profit-oriented corporate and a nonprofit social environment.
2	Analyze the impact of environment on social marketing & study the various behavior models/frameworks/theories for social change.
3	To study the basis of Segmentation, Targeting and Positioning and identify marketing mix of social marketing.
4	To provide an overview of the Not for Profit Sector (NPO) and comment on the CSR provision in the companies act of 2013.
5	To study overview of social marketing in various key sectors and Identify basic ethical issues in Social marketing and appreciate the careers in Social Marketing

Sr. No.	Modules / Units
1	Introduction to Social Marketing & Its Environment
	<p>Definition of Social Marketing, Features, Need for Social Marketing, Evolution of Social Marketing, Social Marketing v/s Commercial Marketing, Challenges of Social Marketing. Social Marketing Unique Value Proposition, Relevance of Social marketing.</p> <p>Environment in Social Marketing, Components, Impact of Environment on Social Marketing.</p>
2	Social Marketing Plan, STP and Marketing Mix
	<ul style="list-style-type: none"> • Social Marketing Plan, Segmentation, Targeting & Positioning Social Marketing Plan, Steps in developing social marketing plan, importance of planning. Segmentation, Basis of Segmentation, Criteria for evaluating segments, Targeting, Selecting Target Audience for Social Marketing, Positioning and Types of positioning. • Social Marketing Mix <ol style="list-style-type: none"> 1. Product: Social Product, Level of Product, Social Product Branding Decision. 2. Price: Monetary and non-monetary incentives for desired behavior, Pricing Objectives, Pricing Strategies. 3. Place: 5 A's of Distribution of Product in social marketing, Types of distribution channel 4. Promotion: Developing a Promotion Mix for social product, Message Strategy, Messenger Strategy, Creativity Strategy, selecting communication channel.
3	Managing Behaviour for Social Change & NPO & CSR
	<ul style="list-style-type: none"> • Managing Behaviour for Social Change Types of Behaviour Objectives, Knowledge objectives and belief objectives, Behaviour Change Models, Theories and Frameworks: Social Norm Theory, The diffusion of innovation model, The health belief model, The ecological model, Theory of reasoned action and theory of planned behaviour. Social Cognitive theory/social learning, The behavioural economics framework and the nudge factor, the science of habit framing, • Not for Profit Organization (NPO) & CSR Meaning, NGO, Voluntary Organization, Third Sector, NPO Sector. Status of Voluntary sector in India. Starting a Voluntary Organization in India: Trust, Society, Section 8 Company under the Companies Act of 2013. CSR, Meaning, Overview of CSR in India, Overview of CSR rules for corporation under Companies Act of 2013, CSR Impact Evaluation. Need for Governance in Not for Profit Sector, Ethics in Social Marketing
4	Social Marketing – A Sectoral Overview & Careers
	<ul style="list-style-type: none"> • Marketing Health • Marketing Education • Marketing Medicare • Marketing Sanitation • Marketing Financial Literacy & Savings • Marketing Digital Literacy • Marketing of Social Issues of Youth. • Social Work as a profession and Social Entrepreneurship, Careers in Social Marketing.

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**Elective Courses (EC)
Group C. Human Resource Electives**

1. Recruitment & Selection

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Recruitment	18
2	Selection	15
3	Induction	15
4	Soft Skills	12
Total		60

Objectives

SN	Objectives
1	The objective is to familiarize the students with concepts and principles, procedure of Recruitment and Selection in an organization.
2	To give an in depth insight into various aspects of Human Resource management and make them acquainted with practical aspect of the subject.

Sr. No.	Modules / Units
1	Recruitment
	<ul style="list-style-type: none"> • Concepts of Recruitment- -Meaning, Objectives, Scope & Definition, Importance and relevance of Recruitment. • Job Analysis--Concept, Specifications, Description, Process And Methods, Uses of Job Analysis • Job Design--Introduction, Definition, Modern Techniques, Factors affecting Job Design, Contemporary Issues in Job Designing. • Source or Type of Recruitment– a) Direct/Indirect, b)Internal/ External. Internal-Notification, Promotion– Types, Transfer –Types, Reference External-Campus Recruitment, Advertisement, Job Boards Website/Portals, Internship, Placement Consultancies-Traditional (In-House, Internal Recruitment, On Campus, Employment And Traditional Agency). Modern (Recruitment Books, Niche Recruitments, Internet Recruitment, Service Recruitment, Website and Job, Search Engine, Social Recruiting and Candidate Paid Recruiters). • Technique of Recruitment-Traditional Vs Modern Recruitment • Evaluation of Recruitment-Outsourcing Programme
2	Selection
	<ul style="list-style-type: none"> • Selection-Concept of Selection, Criteria for Selection, Process, Advertisement and Application (Blank Format). • Screening-Pre and Post Criteria for Selection, Steps of Selection • Interviewing-Types and Guidelines for Interviewer & Interviewee, Types of Selection Tests, Effective Interviewing Techniques. • Selection Hurdles and Ways to Overcome Them
3	Induction
	<ul style="list-style-type: none"> • Induction-Concept, Types-Formal /Informal, Advantages of Induction ,How to make Induction Effective • Orientation & On boarding-Programme and Types, Process. • Socialisation-Types-Anticipatory, Encounter, Setting in, Socialisation Tactics • Current trends in Recruitment and Selection Strategies– with respect to Service, Finance, I.T., Law And Media Industry
4	Soft Skills
	<ul style="list-style-type: none"> • Preparing Bio-data and C.V. • Social and Soft Skills – Group Discussion &Personal Interview, Video and Tele Conferencing Skills, • Presentation and Negotiation Skills, Aesthetic Skills, • Etiquettes-Different Types and Quitting Techniques. • Exit Interview-Meaning, importance.

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**Elective Courses (EC)
Group C. Human Resource Electives**

2. Motivation & Leadership

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Motivation -I	12
2	Motivation-II	15
3	Leadership-I	17
4	Leadership-II	16
Total		60

Objectives

SN	Objectives
1	To gain knowledge of the leadership strategies for motivating people and changing organizations
2	To study how leaders facilitate group development and problem solving and work through problems and issues as well as transcend differences
3	To acquaint the students about practical approaches to Motivation and Leadership & its application in the Indian context

Sr. No.	Modules / Units
1	Motivation-I
	<ul style="list-style-type: none"> • Concept of motivation, Importance, Tools of Motivation. • Theory Z, Equity theory. • Process Theories-Vroom's Expectancy Theory, Valency-Four drive model.
2	Motivation-II
	<ul style="list-style-type: none"> • East v/s West, motivating workers (in context to Indian workers) • The Indian scene – basic differences. • Work –Life balance – concept, differences, generation and tips on work life balance.
3	Leadership-I
	<ul style="list-style-type: none"> • Leadership– Meaning, Traits and Motives of an Effective Leader, Styles of Leadership. • Theories –Trait Theory, Behavioural Theory, Path Goal Theory. • Transactional v/s Transformational leaders. • Strategic leaders– meaning, qualities. • Charismatic Leaders– meaning of charisma, Qualities, characteristics, types of charismatic leaders (socialized, personalized, office-holder, personal, divine)
4	Leadership-II
	<ul style="list-style-type: none"> • Great leaders, their style, activities and skills (Ratan Tata, Narayan Murthy, Dhirubhai Ambani, Bill Gates, Mark Zuckerberg, Donald Trump) • Characteristics of creative leaders and organization methods to enhance creativity (Andrew Dubrein). • Contemporary issues in leadership–Leadership roles, team leadership, mentoring, self leadership, online leadership, finding and creating effective leader.

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**Elective Courses (EC)
Group C. Human Resource Electives**

3. Employees Relations & Welfare

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Overview of Employee Relations and Collective Bargaining	15
2	Overview of Employee Welfare	15
3	Welfare and Work Environment Management	15
4	Workers Participation and Employee Grievance	15
Total		60

Objectives

SN	Objectives
1	To understand the nature and importance of employee relations in an organization
2	To understand the importance of collective bargaining and Workers participation
3	To understand the causes and effects of employee grievances as well as the procedure to solve the same

Sr. No.	Modules / Units
1	Overview of Employee Relations and Collective Bargaining
	<ul style="list-style-type: none"> • Employee Relations - Meaning, Scope, Elements of Employee Relations, Role of HR in Employee Relations • Employee Relation Policies – Meaning and Scope. • Ways to Improve Employee Relations • Collective Bargaining – Meaning, Characteristics, Need and Importance, Classification of collective bargaining - Distributive bargaining, Integrative bargaining, Attitudinal structuring and Intra-organizational bargaining; Principles of Collective Bargaining, Process, Causes for Failure of Collective Bargaining, Conditions for Successful Collective Bargaining • Collective Bargaining Strategies - Parallel or Pattern Bargaining, Multi-employer or Coalition Bargaining, Multi-unit or Coordinated Bargaining, and Single-unit Bargaining • Current Trends in Collective Bargaining
2	Overview of Employee Welfare
	<ul style="list-style-type: none"> • Meaning, Need for Employee Welfare, Principles of Employee/ Labour Welfare, Scope for Employee/ Labour Welfare in India, Types of Welfare Services – Individual and Group. • Historical Development of Employee/ Labour Welfare in India – Pre and Post-Independence, Employee/ Labour Welfare Practices in India • Approaches to Employee/ Labour Welfare – Paternalistic, Atomistic, Mechanistic, Humanistic approach • Theories of Employee Welfare—Policing Theory, Religion Theory, Philanthropic Theory, Trusteeship Theory, Public Relations Theory, Functional Theory • Administration of Welfare Facilities – Welfare Policy, Organisation of Welfare, Assessment of Effectiveness.
3	Welfare and Work Environment Management
	<ul style="list-style-type: none"> • Agencies for Labour Welfare – Central Government, State Government, Employers, Trade Union • Women Welfare - Meaning, Need for women welfare, Provision of Factories Act as applicable for women welfare • Responsibility of Employers towards labour welfare • Work Environment Management – Meaning, Need for healthy work environment, measures for providing healthy work, Fatigue at work – Meaning, Causes and Symptoms of Fatigue, Boredom at Workplace – Meaning, Hazards at Workplace – Meaning, Types of Hazards – Physical and Social, Hazard Management – Meaning and Process, Hazard Audit - Concept • Accidents and Safety Issues at Workplace – Safety, Safety Culture
4	Workers Participation and Employee Grievance
	<ul style="list-style-type: none"> • Workers Participation in Management – Concept, Pre-requisites, forms & levels of participation, Benefit of Workers Participation in Management, Importance of employee stock option plans as a method of participation. • Employee Grievance – Meaning, Features, Causes and Effects of Employee Grievances, Employee Grievance Handling Procedure, Effective Ways of Handling Grievance • Role of Industrial Relations Manager in Promoting & Establishing Peaceful Employee Relations

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**Elective Courses (EC)
Group C. Human Resource Electives**

4. Organisation Behaviour & HRM

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Organisational Behaviour I	12
2	Organisational Behaviour II	13
3	Human Resource Management-I	17
4	Human Resource Management-II	18
Total		60

Objectives

SN	Objectives
1	The objective of this course is to familiarize the student with the fundamental aspects of Various issues associated with Human Resource Management as a whole.
2	The course aims to give a comprehensive overview of Organization Behaviour as a separate area of management.
3	To introduce the basic concepts, functions and processes & create an awareness of the role, functions and functioning of Human Resource Management & OB.

Sr. No.	Modules / Units
1	Organisational Behaviour-I
	<ul style="list-style-type: none"> • Introduction to Organizational Behaviour-Concept, definitions, Evolution of OB • Importance of Organizational Behaviour-Cross Cultural Dynamics, Creating Ethical Organizational Culture & Climate • Individual and Group Behaviour-OB models–Autocratic, Custodial, Supportive, Collegial & SOBC in context with Indian OB • Human Relations and Organizational Behaviour
2	Organisational Behaviour-II
	<ul style="list-style-type: none"> • Managing Communication: Conflict management techniques. • Time management strategies. • Learning Organization and Organizational Design • Rewards and Punishments-Termination, layoffs, Attrition, Retrenchment, Separations, Downsizing
3	Human Resource Management-I
	<ul style="list-style-type: none"> • HRM-Meaning, objectives, scope and functions • HRP-Definition, objectives, importance, factors affecting HRP, Process of HRP, Strategies of HRM , Global HR Strategies • HRD-Concept ,meaning, objectives, HRD functions
4	Human Resource Management-II
	<ul style="list-style-type: none"> • Performance Appraisal: concept, process, methods and problems, KRA'S • Compensation-concept, components of Pay Structure, Wage and salary administration, Incentives and Employee benefits. • Career planning-concept of career Planning, Career stages and carrier planning

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***2. Ability Enhancement Courses (AEC)
2A. Ability Enhancement Compulsory Course***

3. Information Technology in Business Management-I

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to IT Support in Management	15
2	Office Automation using MS-Office	15
3	Email, Internet and its Applications	15
4	E-Security	15
Total		60

Objectives

SN	Objectives
1	To learn basic concepts of Information Technology, its support and role in Management, for managers
2	Module II comprises of practical hands on training required for office automation. It is expected to have practical sessions of latest MS-Office software
3	To understand basic concepts of Email, Internet and websites, domains and security therein
4	To recognize security aspects of IT in business, highlighting electronic transactions, advanced security features

Sr. No.	Modules / Units
1	<p>Introduction to IT Support in Management</p> <ul style="list-style-type: none"> <li>• Information Technology concepts Concept of Data, Information and Knowledge Concept of Database <li>• Introduction to Information Systems and its major components. Types and Levels of Information systems. Main types of IT Support systems Computer based Information Systems (CBIS) <ul style="list-style-type: none"> <li>▪ Types of CBIS - brief descriptions and their interrelationships/hierarchies <li>▪ Office Automation System(OAS) <li>▪ Transaction Processing System(TPS) <li>▪ Management Information System(MIS) <li>▪ Decision Support Systems (DSS) <li>▪ Executive Information System(EIS) <li>▪ Knowledge based system, Expert system <li>• Success and Failure of Information Technology. Failures of Nike and AT&T <li>• IT Development Trends. Major areas of IT Applications in Management <li>• Concept of Digital Economy and Digital Organization. <li>• IT Resources Open Source Software - Concept and Applications. Study of Different Operating Systems. (Windows / Linux/ DOS)
2	<p>Office Automation using MS Office</p> <ul style="list-style-type: none"> <li>• Learn Word: Creating/Saving of Document Editing and Formatting Features Designing a title page, Preparing Index, Use of SmartArt Cross Reference, Bookmark and Hyperlink. Mail Merge Feature. <li>• Spreadsheet application (e.g. MS-Excel/openoffice.org) Creating/Saving and editing spreadsheets Drawing charts. Using Basic Functions: text, math & trig, statistical, date & time, database, financial, logical Using Advanced Functions : Use of VLookup/HLookup Data analysis – sorting data, filtering data (AutoFilter , Advanced Filter), data validation, what-if analysis (using data tables/scenarios), creating sub-totals and grand totals, pivot table/chart, goal seek/solver, <li>• Presentation Software Creating a presentation with minimum 20 slides with a script. Presenting in different views, Inserting Pictures, Videos, Creating animation effects on them Slide Transitions, Timed Presentations Rehearsal of presentation

Sr. No.	Modules / Units
3	Email, Internet and its Applications
	<ul style="list-style-type: none"> • Introduction to Email Writing professional emails Creating digitally signed documents. • Use of Outlook : Configuring Outlook, Creating and Managing profile in outlook, Sending and Receiving Emails through outlook Emailing the merged documents. Introduction to Bulk Email software • Internet Understanding Internet Technology Concepts of Internet, Intranet, Extranet Networking Basics, Different types of networks. Concepts (Hubs, Bridges, Routers, IP addresses) Study of LAN, MAN, WAN • DNS Basics. Domain Name Registration, Hosting Basics. • Emergence of E-commerce and M-Commerce Concept of E-commerce and M-Commerce Definition of E-commerce and M-Commerce Business models of e-commerce: models based on transaction party (B2B, B2C, B2G, C2B, C2C, E-Governance) Models based on revenue models, Electronics Funds Transfer, Electronic Data Interchange.
4	E-Security Systems
	<ul style="list-style-type: none"> • Threats to Computer systems and control measures. Types of threats- Virus, hacking, phishing, spyware, spam, physical threats (fire, flood, earthquake, vandalism) Threat Management • IT Risk Definition, Measuring IT Risk, Risk Mitigation and Management • Information Systems Security • Security on the internet Network and website security risks Website Hacking and Issues therein. Security and Email • E-Business Risk Management Issues Firewall concept and component, Benefits of Firewall • Understanding and defining Enterprise wide security framework • Information Security Environment in India with respect to real Time Application in Business Types of Real Time Systems, Distinction between Real Time, On – line and Batch Processing System. Real Time Applications viz. Railway / Airway / Hotel Reservation System, ATMs, EDI Transactions - definition, advantages, examples; E-Cash, Security requirements for Safe E-Payments Security measures in International and Cross Border financial transactions • Threat Hunting Software

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***2. Ability Enhancement Courses (AEC)
2B. Skill Enhancement Courses (SEC)***

**4. Foundation Course –III
Environmental Management**

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Environmental Concepts	12
2	Environment degradation	11
3	Sustainability and role of business	11
4	Innovations in business- an environmental Perspective	11
Total		45

Sr. No.	Modules / Units
1	Environmental Concepts:
	<ul style="list-style-type: none"> • Environment: Definition and composition, Lithosphere, Atmosphere, Hydrosphere, Biosphere • Biogeochemical cycles - Concept and water cycle • Ecosystem & Ecology; Food chain, food web & Energy flow pyramid • Resources: Meaning, classification(Renewable & non-renewable), types & Exploitation of Natural resources in sustainable manner
2	Environment degradation
	<ul style="list-style-type: none"> • Degradation-Meaning and causes, degradation of land, forest and agricultural land and its remedies • Pollution – meaning, types, causes and remedies (land, air, water and others) • Global warming: meaning, causes and effects. • Disaster Management: meaning, disaster management cycle. • Waste Management: Definition and types -solid waste management anthropogenic waste, e-waste & biomedical waste (consumerism as a cause of waste)
3	Sustainability and role of business
	<ul style="list-style-type: none"> • Sustainability: Definition, importance and Environment Conservation. • Environmental clearance for establishing and operating Industries in India. • EIA, Environmental auditing, ISO 14001 • Salient features of Water Act, Air Act and Wildlife Protection Act. • Carbon bank & Kyoto protocol
4	Innovations in business- an environmental perspective
	<p>Non-Conventional energy sources- Wind, Bio-fuel, Solar, Tidal and Nuclear Energy.</p> <p>Innovative Business Models: Eco-tourism, Green marketing, Organic farming, Eco-friendly packaging, Waste management projects for profits ,other business projects for greener future</p>

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***2. Ability Enhancement Courses (AEC)
2B. Skill Enhancement Courses (SEC)***

Foundation Course- Contemporary Issues- III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Human Rights Provisions, Violations and Redressal	12
2	Dealing With Environmental Concerns	11
3	Science and Technology I	11
4	Soft Skills for Effective Interpersonal Communication	11
Total		45

Sr. No.	Modules / Units
1	Human Rights Violations and Redressal
	<p>A. Scheduled Castes- Constitutional and legal rights, Forms of violations, Redressal mechanisms. (2 Lectures)</p> <p>B. Scheduled tribes- Constitutional and legal rights, Forms of violations, Redressal mechanisms. (2 Lectures)</p> <p>C. Women- Constitutional and legal rights, Forms of violations, Redressal mechanisms. (2 Lectures)</p> <p>D. Children- Constitutional and legal rights, Forms of violations, Redressal mechanisms. (2 Lectures)</p> <p>E. People with Disabilities, Minorities, and the Elderly population- Constitutional and legal rights, Forms of violations, Redressal mechanisms. (4 Lectures)</p>
2	Dealing With Environmental Concerns
	<p>A. Concept of Disaster and general effects of Disasters on human life- physical, psychological, economic and social effects. (3 Lectures)</p> <p>B. Some locally relevant case studies of environmental disasters. (2 Lectures)</p> <p>C. Dealing with Disasters - Factors to be considered in Prevention, Mitigation (Relief and Rehabilitation) and disaster Preparedness. (3 Lectures)</p> <p>D. Human Rights issues in addressing disasters- issues related to compensation, equitable and fair distribution of relief and humanitarian approach to resettlement and rehabilitation. (3 Lectures)</p>
3	Science and Technology – I
	<p>A. Development of Science- the ancient cultures, the Classical era, the Middle Ages, the Renaissance, the Age of Reason and Enlightenment. (3 Lectures)</p> <p>B. Nature of science- its principles and characteristics; Science as empirical, practical, theoretical, validated knowledge. (2 Lectures)</p> <p>C. Science and Superstition- the role of science in exploding myths, blind beliefs and prejudices; Science and scientific temper- scientific temper as a fundamental duty of the Indian citizen. (3 Lectures)</p> <p>D. Science in everyday life- technology, its meaning and role in development; Interrelation and distinction between science and technology. (3 Lectures)</p>
4	Soft Skills for Effective Interpersonal Communication
	<p>Part A (4 Lectures)</p> <p>I) Effective Listening - Importance and Features.</p> <p>II) Verbal and Non-Verbal Communication; Public-Speaking and Presentation Skills.</p> <p>III) Barriers to Effective Communication; Importance of Self-Awareness and Body Language.</p> <p>Part B (4 Lectures)</p> <p>I) Formal and Informal Communication - Purpose and Types.</p> <p>II) Writing Formal Applications, Statement of Purpose (SOP) and Resume.</p> <p>III) Preparing for Group Discussions, Interviews and Presentations.</p> <p>Part C (3 Lectures)</p> <p>I) Leadership Skills and Self-Improvement - Characteristics of Effective Leadership.</p> <p>II) Styles of Leadership and Team-Building.</p>

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11. Sathe, Satyaranjan P., *Judicial Activism in India*, Oxford University Press, New Delhi, 2003.
12. Singh, Ashok Kumar, *Science and Technology for Civil Service Examination*, Tata McGraw Hill, New Delhi, 2012.
13. Thorpe, Edgar, *General Studies Paper I Volume V*, Pearson, New Delhi, 2017.

Projects / Assignments (for Internal Assessment)

- i. Projects/Assignments should be drawn for the component on Internal Assessment from the topics in **Module 1 to Module 4**.
- ii. Students should be given a list of possible topics - at least 3 from each Module at the beginning of the semester.
- iii. The Project/Assignment can take the form of Street-Plays / Power-Point Presentations / Poster Exhibitions and similar other modes of presentation appropriate to the topic.
- iv. Students can work in groups of not more than 8 per topic.
- v. Students must submit a hard / soft copy of the Project / Assignment before appearing for the semester end examination.

QUESTION PAPER PATTERN (Semester III)

The Question Paper Pattern for Semester End Examination shall be as follows:

TOTAL MARKS: 75

DURATION: 150 MINUTES

QUESTION NUMBER	DESCRIPTION	MARKS ASSIGNED
1	i. Question 1 A will be asked on the meaning / definition of concepts / terms from all Modules. ii. Question 1 B will be asked on the topic of the Project / Assignment done by the student during the Semester iii. In all 8 Questions will be asked out of which 5 have to be attempted.	a) Total marks: 15 b) For 1 A, there will be 3 marks for each sub-question. c) For 1 B there will be 15 marks without any break-up.
2	Descriptive Question with internal option (A or B) on Module 1	15
3	Descriptive Question with internal option (A or B) on Module 2	15
4	Descriptive Question with internal option (A or B) on Module 3	15
5	Descriptive Question with internal option (A or B) on Module 4	15

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2. Ability Enhancement Courses (AEC)

2B. Skill Enhancement Courses (SEC)

4. Foundation Course in NSS - III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Value System & Gender sensitivity	12
2	Disaster preparedness & Disaster management	10
3	Health, hygiene & Diseases	13
4	Environment & Energy conservation	10
Total		45

Sr. No.	Modules / Units
1	Value System & Gender sensitivity
	UNIT - I – Value System Meaning of value, Types of values- human values and social responsibilities- Indian value system- the concepts and its features UNIT - II - Gender sensitivity and woman empowerment Concept of gender- causes behind gender related problems- measures Meaning of woman empowerment- schemes for woman empowerment in India
2	Disaster preparedness & Disaster management
	UNIT - I - Basics of Disaster preparedness Disaster- its meaning and types Disaster preparedness- its meaning and methods UNIT - II - Disaster management Disaster management- concept- disaster cycle - role of technology in disaster response- role of as first responder – the study of 'Avhan' Model
3	Health, hygiene & Diseases
	UNIT - I - Health and hygiene Concept of complete health and maintenance of hygiene UNIT - II - Diseases and disorders- preventive campaigning Diseases and disorders- preventive campaigning in Malaria, Tuberculosis, Dengue, Cancer, HIV/AIDS, Diabetes
4	Environment & Energy conservation
	UNIT - I Environment and Environment enrichment program Environment- meaning, features , issues, conservation of natural resources and sustainability in environment UNIT - II Energy and Energy conservation program Energy- the concept, features- conventional and non- conventional energy Energy conservation- the meaning and importance

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***2. Ability Enhancement Courses (AEC)
2B. Skill Enhancement Courses (SEC)***

4. Foundation Course in NCC - III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	National Integration & Awareness	10
2	Drill: Foot Drill	10
3	Adventure Training and Environment Awareness and Conservation	05
4	Personality Development and Leadership	10
5	Specialized subject (ARMY)	10
	Total	45

Sr. No.	Modules / Units
1	National Integration & Awareness
	<p>Desired outcome: The students will display sense of patriotism, secular values and shall be transformed into motivated youth who will contribute towards nation building through national unity and social cohesion.</p> <p>The students shall enrich themselves about the history of our beloved country and will look forward for the solutions based on strengths to the challenges to the country for its development.</p> <ul style="list-style-type: none"> • Freedom Struggle and nationalist movement in India. • National interests, Objectives, Threats and Opportunities. • Problems/ Challenges of National Integration. • Unity in Diversity
2	Drill: Foot Drill
	<p>Desired outcome: The students will demonstrate the sense of discipline, improve bearing, smartness, turnout, develop the quality of immediate and implicit obedience of orders, with good reflexes.</p> <ul style="list-style-type: none"> • Side pace, pace forward and to the rear • Turning on the march and whiling • Saluting on the march • Marking time, forward march and halt in quick time • Changing step • Formation of squad and squad drill
3	Adventure Training, Environment Awareness and Conservation
3A	Adventure Training
	<p>Desired outcome: The students will overcome fear & inculcate within them the sense of adventure, sportsmanship, esprit-d-corp and develop confidence, courage, determination, diligence and quest for excellence.</p> <ul style="list-style-type: none"> • Any Two such as – Obstacle course, Slithering, Trekking, Cycling, Rock Climbing, Para Sailing, Sailing, Scuba Diving etc.
3B	Environment Awareness and Conservation
	<p>Desired outcome: The student will be made aware of the modern techniques of waste management and pollution control.</p> <ul style="list-style-type: none"> • Waste management • Pollution control, water, Air, Noise and Soil
4	Personality Development and Leadership
	<p>Desired outcome: The student will inculcate officer like qualities with desired ability to take right decisions.</p> <ul style="list-style-type: none"> • Time management • Effect of Leadership with historical examples • Interview Skills • Conflict Motives- Resolution

Sr. No.	Modules / Units
5	Specialized Subject: Army Or Navy Or Air
	<p><u>Army</u> Desired outcome: It will acquaint, expose & provide knowledge about Army/ Navy/ Air force and to acquire information about expanse of Armed Forces ,service subjects and important battles</p> <p>A. Armed Force</p> <ul style="list-style-type: none"> • Task and Role of Fighting Arms • Modes of Entry to Army • Honors and Awards <p>B. Introduction to Infantry and weapons and equipments</p> <ul style="list-style-type: none"> • Characteristics of 5.56mm INSAS Rifle, Ammunition, Fire power, Stripping, Assembling and Cleaning • Organization of Infantry Battalion. <p>C. Military history</p> <ul style="list-style-type: none"> • Study of battles of Indo-Pak War 1965,1971 and Kargil • War Movies <p>D. Communication</p> <ul style="list-style-type: none"> • Characteristics of Walkie-Talkies • Basic RT Procedure • Latest trends and Development (Multi Media, Video Conferencing, IT) <p style="text-align: center;">OR</p> <p><u>Navy</u></p> <p>A. Naval orientation and service subjects</p> <ul style="list-style-type: none"> • Organization of Ship- Introduction on Onboard Organization • Naval Customs and Traditions • Mode of Entry into Indian Navy • Branches of the Navy and their functions • Naval Campaign (Battle of Atlantic, Pearl Harbour, Falkland War/Fleet Review/ PFR/ IFR)s <p>B. Ship and Boat Modelling</p> <ul style="list-style-type: none"> • Types of Models • Introduction of Ship Model- Competition Types of Model Prepare in NSC and RDC • Care and handling of power-tools used- maintenance and purpose of tools

Sr. No.	Modules / Units
	<p>C. Search and Rescue</p> <ul style="list-style-type: none"> • Role of Indian Coast Guard related to SAR <p>D. Swimming</p> <ul style="list-style-type: none"> • Floating and Breathing Techniques- Precautions while Swimming <p style="text-align: center;">OR</p> <p><u>AIR</u></p> <p>A. General Service Knowledge</p> <ul style="list-style-type: none"> • Organization Of Air Force • Branches of the IAF. <p>B. Principles of Flight</p> <ul style="list-style-type: none"> • Venturi Effect • Aerofoil • Forces on an Aircraft • Lift and Drag <p>C. Airmanship</p> <ul style="list-style-type: none"> • ATC/RT Procedures • Aviation Medicine <p>D. Aero- Engines</p> <ul style="list-style-type: none"> • Types of Engines • Piston Engines • Jet Engines • Turboprop Engines

***Revised Syllabus of Courses of Bachelor of Management Studies
(BMS) Programme at Semester III
with Effect from the Academic Year 2017-2018***

***2. Ability Enhancement Courses (AEC)
2B. Skill Enhancement Courses (SEC)***

4. Foundation Course in Physical Education - III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Overview of Nutrition	10
2	Evaluation of Health, Fitness and Wellness	10
3	Prevention and Care of Exercise Injuries	10
4	Sports Training	15
Total		45

Sr. No.	Modules / Units
1	Overview of Nutrition
	<ul style="list-style-type: none"> • Introduction to nutrition & its principles • Role of Nutrition in promotion of health • Dietary Guidelines for Good Health • Regulation of water in body and factors influencing body temperature.
2	Evaluation of Health, Fitness and Wellness
	<ul style="list-style-type: none"> • Meaning & Concept of holistic health • Evaluating Personal health-basic parameters • Evaluating Fitness Activities – Walking & Jogging • Myths & mis-conceptions of Personal fitness
3	Prevention and Care of Exercise Injuries
	<ul style="list-style-type: none"> • Types of Exercise Injuries • First Aid- Importance & application in Exercise Injuries • Management of Soft tissues injuries • Management of bone injuries
4	Sports Training
	<ul style="list-style-type: none"> • Definition, aims & objectives of Sports training • Importance of Sports training • Principles of Sports training • Drug abuse & its effects

**Revised Syllabus of Courses of Bachelor of Management Studies (BMS)
Programme at Semester III
With Effect from the Academic Year 2017-2018**

3. Core Courses (CC)

5. Business Planning & Entrepreneurial Management

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Foundations of Entrepreneurship Development	15
2	Types & Classification Of Entrepreneurs	15
3	Entrepreneur Project Development & Business Plan	15
4	Venture Development	15
Total		60

Objectives

SN	Objectives
1	Entrepreneurship is one of the major focus areas of the discipline of Management. This course introduces Entrepreneurship to budding managers.
2	To develop entrepreneurs & to prepare students to take the responsibility of full line of management function of a company with special reference to SME sector.

Sr. No.	Modules / Units
1	Foundations of Entrepreneurship Development:
	<ul style="list-style-type: none"> ● Foundations of Entrepreneurship Development: Concept and Need of Entrepreneurship Development Definition of Entrepreneur, Entrepreneurship, Importance and significance of growth of entrepreneurial activities Characteristics and qualities of entrepreneur ● Theories of Entrepreneurship: Innovation Theory by Schumpeter & Imitating Theory of High Achievement by McClelland X-Efficiency Theory by Leibenstein Theory of Profit by Knight Theory of Social change by Everett Hagen ● External Influences on Entrepreneurship Development: Socio-Cultural, Political, Economical, Personal. Role of Entrepreneurial culture in Entrepreneurship Development.
2	Types & Classification Of Entrepreneurs
	<ul style="list-style-type: none"> ● Intrapreneur –Concept and Development of Intrapreneurship ● Women Entrepreneur – concept, development and problems faced by Women Entrepreneurs, Development of Women Entrepreneurs with reference to Self Help Group ● Social entrepreneurship–concept, development of Social entrepreneurship in India. Importance and Social responsibility of NGO’s. ● Entrepreneurial development Program (EDP)– concept, factor influencing EDP. Option available to Entrepreneur. (Ancillarisation, BPO, Franchise, M&A)
3	Entrepreneur Project Development & Business Plan
	<ul style="list-style-type: none"> ● Innovation, Invention, Creativity, Business Idea, Opportunities through change. ● Idea generation– Sources-Development of product /idea, ● Environmental scanning and SWOT analysis ● Creating Entrepreneurial Venture-Entrepreneurship Development Cycle ● Business Planning Process-The business plan as an Entrepreneurial tool, scope and value of Business plan. ● Elements of Business Plan, Objectives, Market and Feasibility Analysis, Marketing, Finance, Organization & Management, Ownership, ● Critical Risk Contingencies of the proposal, Scheduling and milestones.
4	Venture Development
	<ul style="list-style-type: none"> ● Steps involved in starting of Venture ● Institutional support to an Entrepreneur ● Venture funding, requirements of Capital (Fixed and working) Sources of finance, problem of Venture set-up and prospects ● Marketing: Methods, Channel of Marketing, Marketing Institutions and Assistance. ● New trends in entrepreneurship

**Revised Syllabus of Courses of Bachelor of Management Studies (BMS)
Programme at Semester III
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3. Core Courses (CC)

6. Accounting for Managerial Decisions

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Analysis and Interpretation of Financial statements	15
2	Ratio analysis and Interpretation	15
3	Cash flow statement	15
4	Working capital	15
Total		60

Objectives

SN	Objectives
1	To acquaint management learners with basic accounting fundamentals.
2	To develop financial analysis skills among learners.
3	The course aims at explaining the core concepts of business finance and its importance in managing a business

Sr. No.	Modules / Units
1	Analysis and Interpretation of Financial statements
	<ul style="list-style-type: none"> • Study of balance sheet of limited companies. Study of Manufacturing, Trading, Profit and Loss A/c of Limited Companies • Vertical Form of Balance Sheet and Profit & Loss A/c-Trend Analysis, Comparative Statement & Common Size.
2	Ratio analysis and Interpretation
	<ul style="list-style-type: none"> • Ratio analysis and Interpretation(based on vertical form of financial statements)including conventional and functional classification restricted to: • Balance sheet ratios: Current ratio, Liquid Ratio, Stock Working capital ratio, Proprietary ratio, Debt Equity Ratio, Capital Gearing Ratio. • Revenue statement ratios: Gross profit ratio, Expenses ratio, Operating ratio, Net profit ratio, Net Operating Profit Ratio, Stock turnover Ratio, Debtors Turnover , Creditors Turnover Ratio • Combined ratios: Return on capital Employed (including Long term borrowings), Return on Proprietors fund (Shareholder fund and Preference Capital), Return on Equity Capital, Dividend Payout Ratio, Debt Service Ratio, • Different modes of expressing ratios:-Rate, Ratio, Percentage, Number. Limitations of the use of Ratios.
3	Cash flow statement
	Preparation of cash flow statement(AccountingStandard-3(revised))
4	Working capital
	<ul style="list-style-type: none"> • Working capital-Concept, Estimation of requirements in case of Trading & Manufacturing Organizations. • Receivables management-Meaning & Importance, Credit Policy Variables, methods of Credit Evaluation(Traditional and Numerical- Credit Scoring); Monitoring the Debtors Techniques [DSO, Ageing Schedule]

**Revised Syllabus of Courses of Bachelor of Management Studies (BMS)
Programme at Semester III
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3. Core Courses (CC)

7. Strategic Management

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction	12
2	Strategy Formulation	16
3	Strategic Implementation	18
4	Strategic Evaluation & Control	14
Total		60

Objectives

SN	Objectives
1	The objective of this course is to learn the management policies and strategies at every Level to develop conceptual skills in this area as well as their application in the corporate world.
2	The focus is to critically examine the management of the entire enterprise from the Top Management view points.
3	This course deals with corporate level Policy & Strategy formulation areas. This course aims to developing conceptual skills in this area as well as their application in the corporate world.

Sr. No.	Modules / Units
1	Introduction
	<ul style="list-style-type: none"> • Business Policy-Meaning, Nature, Importance • Strategy-Meaning, Definition • Strategic Management-Meaning, Definition, Importance, Strategic management • Process & Levels of Strategy and Concept and importance of Strategic Business Units (SBU's) • Strategic Intent-Mission, Vision, Goals, Objective, Plans
2	Strategy Formulation
	<ul style="list-style-type: none"> • Environment Analysis and Scanning(SWOT) • Corporate Level Strategy (Stability, Growth, Retrenchment, Integration and Internationalization) • Business Level Strategy(Cost Leadership, Differentiation, Focus) • Functional Level Strategy(R&D, HR, Finance, Marketing, Production)
3	Strategic Implementation
	<ul style="list-style-type: none"> • Models of Strategy making. • Strategic Analysis& Choices &Implementation: BCG Matrix, GE 9Cell, Porter5 Forces, 7S Frame Work • Implementation: Meaning, Steps and implementation at Project, Process, Structural ,Behavioural ,Functional level.
4	Strategic Evaluation & Control
	<p>Strategic Evaluation & Control– Meaning, Steps of Evaluation & Techniques of Control</p> <p>Synergy: Concept , Types , evaluation of Synergy. Synergy as a Component of Strategy & its Relevance.</p> <p>Change Management– Elementary Concept</p>

Bachelor of Management Studies (BMS)
Programme
Under Choice Based Credit, Grading and Semester System
Course Structure

(To be implemented from Academic Year- 2017-2018)

Semester IV

No. of Courses	Semester IV	Credits
1	<i>Elective Courses (EC)</i>	
1& 2	*Any one group of courses from the following list of the courses	06
2	<i>Ability Enhancement Courses (AEC)</i>	
2A	<i>Ability Enhancement Compulsory Course (AECC)</i>	
3	Information Technology in Business Management-II	03
2B	<i>**Skill Enhancement Courses (SEC)</i>	
4	Any one course from the following list of the courses	02
3	<i>Core Courses (CC)</i>	
5	Business Economics-II	03
6	Business Research Methods	03
7	Production & Total Quality Management	03
Total Credits		20

<i>**List of Skill Enhancement Courses (SEC) for Semester IV (Any One)</i>	
1	Foundation Course (Ethics & Governance)- IV
2	Foundation Course- Contemporary Issues- IV
3	Foundation Course in NSS - IV
4	Foundation Course in NCC - IV
5	Foundation Course in Physical Education - IV

**Revised Syllabus of Courses of Bachelor of Management Studies (BMS)
Programme at Semester IV
with Effect from the Academic Year 2017-2018**

**Elective Courses (EC)
Group A. Finance Electives**

1. Financial Institutions & Markets

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Financial System in India	16
2	Financial Regulators & Institutions in India (detail discussion on their role and functions)	16
3	Financial Markets (In Details)	16
4	Managing Financial Systems Design	12
Total		60

Objectives

SN	Objectives
1	The Course aims at providing the students basic knowledge about the structure, role and functioning of financial institutions and markets in the financial system in India.
2	To inculcate understanding relating to managing of financial system

Sr. No.	Modules / Units
1	Financial System in India
	<ul style="list-style-type: none"> • Financial System Theoretical Settings – Meaning, Importance, Functions of financial system, Indian financial system from financial neutrality to financial activism and from financial volatility to financial stability. Role of government in Financial development , Phases of Indian financial system since independence (State Domination – 1947-1990, Financial sector reforms 1991 till Financial sector Legislative Reforms Commission 2013) (Only an Overview) Monitoring Framework for financial Conglomerates, • Structure of Indian financial system – Financial Institutions (Banking & Non-Banking), Financial Markets (Organized and Unorganized) Financial Assets/Instruments, Financial Services(Fund based & Free Based) – (In details) • Microfinance - Conceptual Framework – Origin, Definitions, Advantages, Barriers, Microfinance Models in India
2	Financial Regulators & Institutions in India (detail discussion on their role and functions)
	<ul style="list-style-type: none"> • Financial Regulators – Ministry of Finance (Dept of DEA, Expenditure ,Revenue, financial services and disinvestment) RBI- Changing role of RBI in the financial sector, global crisis and RBI, Ministry of Corporate Affairs, SEBI, Pension Fund Regulatory and Development Authority, IRDA. • Financial Institutions- Role, Classification, Role of Commercial banks, IFCI, IDBI, Industrial Credit and Investment Corporation of India, SFC, Investment institutions in India (LIC, GIC) NBFC services provided by NBFC. • Specialized Financial Institutions – EXIM, NABARD, SIDBI, NHB, SIDC, SME Rating agency of India Ltd, IIFCL, IWRFC (Their role, functions and area of concerns)
3	Financial Markets (In Details)
	<ul style="list-style-type: none"> • Indian Money Market – Meaning, Features, Functions, Importance, Defects, Participants, Components (Organized and Unorganized) (in details) and Reforms • Indian Capital Market - Meaning, Features, Functions, Importance, Participants, Instruments, Reforms in Primary and Secondary Market, Stock Indices, NSE, BSE, ADR and GDR • Introduction of Commodity and Derivative Markets • Insurance and Mutual funds – An introduction
4	Managing Financial Systems Design
	<ul style="list-style-type: none"> • Financial System Design – Meaning, Stakeholder Lender Conflict, Manager Stock holder conflict, Conflict Resolution and Financial System Design, Bank oriented systems and Market oriented systems its advantages and drawbacks, Dimensions of well-functioning financial systems • At global level – Financial system designs of Developed countries (Japan, Germany , UK and USA) (Brief Summary) • Case studies relating to disinvestments polices of PSU in India, Global crises and failures in market systems around world

**Revised Syllabus of Courses of Bachelor of Management Studies (BMS)
Programme at Semester IV
with Effect from the Academic Year 2017-2018**

**Elective Courses (EC)
Group A. Finance Electives**

2. Auditing

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Auditing	15
2	Audit Planning, Procedures and Documentation	15
3	Auditing Techniques and Internal Audit Introduction	15
4	Auditing Techniques: Vouching & Verification	15
Total		60

Objectives

SN	Objectives
1	To enable students get acquaint with the various concepts of auditing.
2	To ensure students understand and practice the various techniques of auditing while managing their finances

Sr. No.	Modules / Units
1	Introduction to Auditing
	<ul style="list-style-type: none"> • Basics – Financial Statements, Users of Information, Definition of Auditing, Objectives of Auditing – Primary and Secondary, Expression of opinion, Detection of Frauds and Errors, Inherent limitations of Audit. Difference between Accounting and Auditing, Investigation and Auditing. • Errors & Frauds – Definitions, Reasons and Circumstances, Types of Error – Commission, Omission, Compensating error. Types of frauds, Risk of fraud and Error in Audit, Auditors Duties and Responsibilities in case of fraud • Principles of Audit – Integrity, Objectivity, Independence, Skills, Competence, Work performed by others, Documentation, Planning, Audi Evidence, Accounting System and Internal Control, Audit Conclusions and Reporting • Types of Audit – Meaning, Advantages, Disadvantages of Balance sheet Audit, Interim Audit, Continuous Audit, Concurrent Audit and Annual Audit
2	Audit Planning, Procedures and Documentation
	<ul style="list-style-type: none"> • Audit Planning – Meaning, Objectives, Factors to be considered, Sources of obtaining information, Discussion with Client, Overall Audit Approach. • Audit Program – Meaning, Factors, Advantages and Disadvantages, Overcoming Disadvantages, Methods of Work , Instruction before commencing Work, Overall Audit Approach • Audit Working Papers - Meaning, importance, Factors determining Form and Contents, Main Functions / Importance, Features, Contents of Permanent Audit File, Temporary Audit File, Ownership, Custody, Access of Other Parties to Audit Working Papers, Auditors Lien on Working Papers, Auditors Lien on Client's Books • Audit Notebook – Meaning, structure, Contents, General Information, Current Information, Importance
3	Auditing Techniques and Internal Audit Introduction
	<ul style="list-style-type: none"> • Test Check - Test Checking Vs Routing Checking, test Check meaning, features, factors to be considered, when Test Checks can be used, advantages disadvantages precautions. • Audit Sampling - Audit Sampling, meaning, purpose, factors in determining sample size -Sampling Risk, Tolerable Error and expected error, methods of selecting Sample Items Evaluation of Sample Results auditors Liability in conducting audit based on Sample • Internal Control - Meaning and purpose, review of internal control, advantages, auditors duties, review of internal control, Inherent Limitations of Internal control, internal control samples for sales and debtors, purchases and creditors, wages and salaries. Internal Checks Vs Internal Control, Internal Checks Vs Test Checks • Internal Audit - Meaning, basic principles of establishing Internal audit, objectives, evaluation of internal Audit by statutory auditor, usefulness of Internal Audit, Internal Audit Vs External Audit,, Internal Checks Vs Internal Audit

Sr. No.	Modules / Units
4	Auditing Techniques: Vouching & Verification
	<ul style="list-style-type: none"> • Audit of Income - Cash Sales, Sales on Approval, Consignment Sales, Sales Returns Recovery of Bad Debts written off, Rental Receipts, Interest and Dividends Received Royalties Received • Audit of Expenditure - Purchases, Purchase Returns, Salaries and Wages, Rent, Insurance Premium, Telephone expense Postage and Courier, Petty Cash Expenses, Travelling Commission Advertisement, Interest Expense • Audit of Assets Book Debts / Debtors, Stocks -Auditors General Duties; Patterns, Dies and Loose Tools, Spare Parts, Empties and Containers Quoted Investments and Unquoted Investment Trade Marks / Copyrights Patents Know-How Plant and Machinery Land and Buildings Furniture and Fixtures • Audit of Liabilities - Outstanding Expenses, Bills Payable Secured loans Unsecured Loans, Contingent Liabilities

**Revised Syllabus of Courses of Bachelor of Management Studies (BMS)
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with Effect from the Academic Year 2017-2018**

**Elective Courses (EC)
Group A. Finance Electives**

3. Strategic Cost Management

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Strategic Cost Management(Only Theory)	20
2	Activity Based Costing	20
3	Strategic Cost Management performance assessment (Only theory)	08
4	Variance Analysis & Responsibility Accounting (Practical Problems)	12
Total		60

Objectives

SN	Objectives
1	Learners should develop skills of analysis, evaluation and synthesis in cost and management accounting
2	The subject covers the complex modern industrial organizations within which the various facets of decision-making and controlling operations take place.

Sr. No.	Modules / Units
1	Introduction to Strategic Cost Management(Only Theory)
	<ul style="list-style-type: none"> • Strategic Cost Management (SCM): Concept and Philosophy-Objectives of SCM-Environmental influences on cost management practices, Key elements in SCM-Different aspects of Strategic Cost Management: Value Analysis & Value Engineering, Wastage Control, Disposal Management, Business Process Re-engineering, Total Quality Management, Total Productive Maintenance, Energy Audit, Control of Total Distribution Cost & Supply Cost, Cost Reduction & Product Life Cycle Costing(An Overview)
2	Activity Based Costing
	<ul style="list-style-type: none"> • Activity Based Management and Activity Based Budgeting: Concept, rationale, issues, limitations. Design and Implementation of Activity Based Costing (Practical Problems on ABC), Life Cycle Costing, Kaizen Costing, Back Flush Costing. Evaluation criterion; Return on Cash Systems; Transfer Pricing and Divisional Performance. Transfer Pricing in International Business, Marginal Costing and Managerial Decision Mix (Practical Problems)
3	Strategic Cost Management performance assessment (Only theory)
	<ul style="list-style-type: none"> • Cost Audit & Management Audit under companies Act, with reference to strategic assessment of cost & managerial performance- Strategic Cost-Benefit Analysis of different business restructuring propositions-Entrepreneurial approach to cost Management, with reference to core competencies, strategic advantages & long-term perspective of cost Management. Six Sigma, Learning Curve, Praise Analysis and Simulation
4	Variance Analysis & Responsibility Accounting (Practical Problems)
	<ul style="list-style-type: none"> • Standard Costing (Material, Labour, Overhead, Sales & Profit) • Responsibility Accounting –Introduction, Types & Evaluation of Profit Centre and Investment Centre

**Revised Syllabus of Courses of Bachelor of Management Studies (BMS)
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with Effect from the Academic Year 2017-2018**

**Elective Courses (EC)
Group A. Finance Electives**

4. Corporate Restructuring

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Corporate Restructuring – Introduction and Concepts (Only Theory)	15
2	Accounting of Internal Reconstruction (Practical and theory)	15
3	Accounting of External Reconstruction (Amalgamation/ Mergers/ Takeovers and Absorption)(Practical and theory)	15
4	Impact of Reorganization on the Company - An Introduction (Only Theory)	15
Total		60

Objectives

SN	Objectives
1	To impart knowledge relating to legal, accounting and practical implementation of corporate restructuring.
2	The subject covers the complex facets of corporate restructuring process

Sr. No.	Modules / Units
1	Corporate Restructuring – Introduction and Concepts (Only Theory)
	<ul style="list-style-type: none"> • Corporate Restructuring - Historical Background, Meaning of Corporate Restructuring, Corporate Restructuring as a Business Strategy, Need and Scope of Corporate Restructuring. • Planning, Formulation and Execution of Various Restructuring Strategies, Important Aspects to be considered while Planning or Implementing Corporate Restructuring Strategies. • Forms of Restructuring - Merger, Demerger, Reverse merger , Disinvestment , Takeover/acquisition, Joint Venture (JV), Strategic Alliance, Franchising and Slump sale
2	Accounting of Internal Reconstruction (Practical and theory)
	<ul style="list-style-type: none"> • Need for reconstruction and Company Law provisions, Distinction between internal and external reconstructions • Methods including alteration of share capital, variation of share-holder rights, sub division, consolidation, surrender and reissue/cancellation, reduction of share capital, with relevant legal provisions and accounting treatments for same.
3	Accounting of External Reconstruction (Amalgamation/ Mergers/ Takeovers and Absorption)(Practical and theory)
	<ul style="list-style-type: none"> • In the nature of merger and purchase with corresponding accounting treatments of pooling of interests and purchase methods respectively • Computation and meaning of purchase consideration and Problems based on purchase method of accounting only.
4	Impact of Reorganization on the Company - An Introduction (Only Theory)
	<ul style="list-style-type: none"> • Change in the Internal Aspects on Reorganization – Change of Name and Logo, Revised Organization Chart, Communication, Employee Compensation, Benefits and Welfare Activities, Aligning Company Policies, Aligning Accounting and Internal Database Management Systems, Re-Visiting Internal Processes and Re-Allocation of People • Change in External Aspects on Reorganization - Engagement with Statutory Authorities, Revised ISO Certification and Similar Other Certifications, Revisiting past Government approvals, decisions and other contracts. • Impact of Reorganization - Gain or Loss to Stakeholders, Implementation of Objectives, Integration of Businesses and Operations, Post Merger Success and Valuation and Impact on Human and Cultural Aspects.

**Revised Syllabus of Courses of Bachelor of Management Studies (BMS)
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**Elective Courses (EC)
Group B. Marketing Electives**

1. Integrated Marketing Communication

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Integrated Marketing Communication	15
2	Elements of IMC – I	15
3	Elements of IMC – II	15
4	Evaluation & Ethics in Marketing Communication	15
Total		60

Objectives

SN	Objectives
1	To equip the students with knowledge about the nature, purpose and complex construction in the planning and execution of an effective Integrated Marketing Communication (IMC) program.
2	To understand the various tools of IMC and the importance of co-ordinating them for an effective marketing communication program.

Sr. No.	Modules / Units
1	Introduction to Integrated Marketing Communication
	<ul style="list-style-type: none"> • Meaning, Features of IMC, Evolution of IMC, Reasons for Growth of IMC. • Promotional Tools for IMC, IMC planning process, Role of IMC in Marketing • Communication process, Traditional and alternative Response Hierarchy Models • Establishing objectives and Budgeting: Determining Promotional Objectives, Sales vs Communication Objectives, DAGMAR, Problems in setting objectives, setting objectives for the IMC Program.
2	Elements of IMC – I
	<ul style="list-style-type: none"> • Advertising – Features, Role of Advertising in IMC, Advantages and Disadvantages, Types of Advertising, Types of Media used for advertising. • Sales promotion – Scope, role of Sales Promotion as IMC tool, Reasons for the growth, Advantages and Disadvantages, Types of Sales Promotion, objectives of consumer and trade promotion, strategies of consumer promotion and trade promotion, sales promotion campaign, evaluation of Sales Promotion campaign.
3	Elements of IMC – II
	<ul style="list-style-type: none"> • Direct Marketing - Role of direct marketing in IMC, Objectives of Direct Marketing, Components for Direct Marketing, Tools of Direct Marketing – direct mail, catalogues, direct response media, internet, telemarketing, alternative media evaluation of effectiveness of direct marketing • Public Relations and Publicity – Introduction, Role of PR in IMC, Advantages and Disadvantages, Types of PR, Tools of PR ,Managing PR – Planning, implementation, evaluation and Research, Publicity, Sponsorship – definition, Essentials of good sponsorship, event sponsorship, cause sponsorship • Personal Selling – Features, Role of Personal Selling in IMC, advantages and disadvantages of Personal Selling, Selling process, Importance of Personal Selling
4	Evaluation & Ethics in Marketing Communication
	<ul style="list-style-type: none"> • Evaluating an Integrated Marketing program – Evaluation process of IMC – Message Evaluations, Advertising tracking research – copy testing – emotional reaction test, cognitive Neuro science – online evaluation, Behavioural Evaluation – sales and response rate, POPAI, Toll free numbers, QR codes and facebook likes, response cards, Internet responses, redemption rate Test Markets – competitive responses, scanner data, Purchase simulation tests • Ethics and Marketing communication – stereotyping, targeting vulnerable customers, offensive brand messages – legal issues – Commercial free speech, misleading claims, puffery, fraud, questionable B2B practices • Current Trends in IMC – Internet & IMC, Advertising on internet, PR through Internet Banner, Sales promotion on Internet, direct marketing on internet.

**Revised Syllabus of Courses of Bachelor of Management Studies (BMS)
Programme at Semester IV
with Effect from the Academic Year 2017-2018**

**Elective Courses (EC)
Group B. Marketing Electives**

2. Rural Marketing

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction	15
2	Rural Market	15
3	Rural Marketing Mix	15
4	Rural Marketing Strategies	15
Total		60

Objectives

SN	Objectives
1	The objective of this course is to explore the students to the Agriculture and Rural Marketing environment so that they can understand consumer's and marketing characteristics of the same for understanding and contributing to the emerging challenges in the upcoming global economic scenario.

Sr. No.	Modules / Units
1	Introduction
	<ul style="list-style-type: none"> • Introduction to Rural Market, Definition & Scope of Rural Marketing. • Rural Market in India-Size & Scope, Rural development as a core area, Efforts put for Rural development by government (A brief Overview). • Emerging Profile of Rural Markets in India, • Problems of rural market. • Constraints in Rural Marketing and Strategies to overcome constraints
2	Rural Market
	<ul style="list-style-type: none"> • Rural Consumer Vs Urban Consumers– a comparison. • Characteristics of Rural Consumers. • Rural Market Environment: <ul style="list-style-type: none"> a)Demographics– Population, Occupation Pattern, Literacy Level; b)Economic Factors-Income Generation, Expenditure Pattern, Rural Demand and Consumption Pattern, Rural Market Index; Land Use Pattern, c)Rural Infrastructure -Rural Housing, Electrification, Roads • Rural Consumer Behaviour: meaning, Factors affecting Rural Consumer Behaviour-Social factors, Cultural factors, Technological factors, Lifestyle, Personality.
3	Rural Marketing Mix
	<ul style="list-style-type: none"> • Relevance of Marketing mix for Rural market/Consumers. • Product Strategies, Rural Product Categories-FMCGs, Consumer Durables, Agriculture Goods & Services; Importance of Branding, Packaging and Labelling. • Nature of Competition in Rural Markets, the problem of Fake Brands • Pricing Strategies & objectives • Promotional Strategies. Segmentation, Targeting & Positioning for rural market.
4	Rural Marketing Strategies
	<ul style="list-style-type: none"> • Distribution Strategies for Rural consumers. Channels of Distribution- HAATS, Mandis, Public Distribution System, Co-operative society, Distribution Models of FMCG, Companies HUL, ITC etc. Distribution networks, Ideal distribution model for rural markets (Case study based) • Communication Strategy. Challenges in Rural Communication, Developing Effective Communication, Determining Communication Objectives, Designing the Message, Selecting the Communication Channels. Creating Advertisements for Rural Audiences. Rural Media- Mass media, Non-Conventional Media, Personalized media;

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**Elective Courses (EC)
Group B. Marketing Electives**

3. Event Marketing

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Events	15
2	Segmenting, Targeting and Positioning of Events and Concept of Product in Events	15
3	Concept of Pricing and Promotion in Events	15
4	Trends and Challenges in Event Marketing	15
Total		60

Objectives

SN	Objectives
1	To understand basic concepts of Event Marketing.
2	To impart knowledge to learners about categories of Events.
3	To understand segmenting, targeting and positioning in the context of Event Marketing.
4	To familiarize learners with trends and challenges in Event Marketing.

Sr. No.	Modules / Units
1	Introduction to Events
	<ul style="list-style-type: none"> • Definition and Meaning of Event Marketing ; The Evolution of Event Marketing, Advantages of Event Marketing, 5 C's of Events- Conceptualization, costing, canvassing, customization, carrying-out; Event Designing; Reach; Interaction- Interaction Points, Direct Interaction, Indirect Interaction, Interaction Catalysts or Enablers. • Importance of Events as a Marketing Communication Tool; Events as a Marketing Tool: The Varied Marketing Needs Addressed by Events: Brand Building, Focus on Target Market, Implementation of Marketing Plan, Marketing Research, Relationship Building, Creating opportunities for better deals with different media, Events and their Economic implications. • Concept of Event Creativity, Key Elements of Events: Event Infrastructure; Customer Groups; Clients; Event Organizers; Venue; Media
2	Segmenting, Targeting and Positioning of Events and Concept of Product in Events
	<ul style="list-style-type: none"> • Concept of Market in Events; Segmentation and targeting of the Market for events; Positioning of events-Event Property. • Concept of Product in Events: Benefit Levels-Core, generic, expected, augmented; Categories of Events: Competitive Events, Artistic Expression, Cultural Celebrations, Exhibition Events, Charitable Events ,Special Business Events, Retail Events. • Event Variations- Time Frame Based, Concept Based, Artist Based, Client Industry Based
3	Concept of Pricing and Promotion in Events
	<ul style="list-style-type: none"> • Risk Rating, Setting Pricing Objectives, Understanding local legislations and tax laws, Feedback about events from the market, skills required for negotiating the best price, validation against pricing objectives, pricing decisions, Event Charges: Percentage of the total Event Cost, Flat Fee, Package Price, Hourly Rate. • Networking Components: Print Media, Radio, Television, Internet, Outdoor Media, Direct Marketing, Sales Promotion, Public Relations, Merchandising, In-venue Publicity. • Event Sponsorship: Concept of Sponsorship, Sponsorship in a communication context, Synergy between sponsor and Event, Identifying Potential sponsors, Impact Measurement, Practical Sponsor Incentivization, In-Kind Sponsorship.
4	Trends and Challenges in Event Marketing
	<ul style="list-style-type: none"> • e-event marketing, Virtual Events, Societal Event Marketing, Green Event, Cause-Related Event Marketing, Sports Event Marketing. • Safety and Security of Event • Event Crisis Management • Growth of Event Industry in India • Career in Event Marketing

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**Elective Courses (EC)
Group B. Marketing Electives**

4. Tourism Marketing

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Tourism Marketing	15
2	Tourism Market Segmentation & Product Mix of Tourism Marketing	15
3	Concept of Pricing, Place, Promotion and Expanded marketing mix for tourism marketing	15
4	Global tourism, tourism organizations and Challenges for Indian Tourism Industry	15
Total		60

Objectives

SN	Objectives
1	To understand basic concepts and strategies of Tourism Marketing.
2	To impart knowledge to learners about types of tourism.
3	To understand segmentation and Marketing mix in the context of Tourism Marketing.
4	To familiarize learners with trends and challenges in Tourism Marketing.

Sr. No.	Modules / Units
1	Introduction to Tourism Marketing
	<ul style="list-style-type: none"> • Meaning of Tourism & Tourist, Features of Tourism, Purpose of Tourism, Adverse Effects of Tourism, Factors Influencing growth of Tourism, Classification of Tourism; Types of Tourism: Health, adventure, rural, cultural, religious, eco-Tourism, wedding Tourism, cruise Tourism. • Tourism Marketing Meaning, Objectives of Tourism Marketing, Importance of Tourism Marketing, Problems of Tourism Marketing. • Phases of Tourism: Economic Approach, Environmental Approach, Cost Benefit Approach. • Tourism Planning: Process, Study of market, Levels of tourism planning, Organization of a tour. Tour Operators and Travel Agents: functions, types, distribution network, Travel agency operations, Travel Organization-Individual and group, travel itinerary. Travel Formalities and Documentation.
2	Tourism Market Segmentation & Product Mix of Tourism Marketing
	<ul style="list-style-type: none"> • Tourism Market Segmentation: Meaning, Need for Market Segmentation in Tourism Importance of Market Segmentation in Tourism Bases for Segmentation in Tourism Tourist Typology: Cohens Typology, Plog's Typology • 4 'A's of Tourism Attraction: Meaning, Typology of Attraction, Natural, Artificial, Cultural, Social, Managed Attraction for Tourist, Peter's Inventory of Tourist Accommodation: Meaning, Typology of Accommodation Accessibility: Meaning, Transportation System for Tourism, Surface Transport, Railways and its contribution to tourism, Sea & Waterways, Airways Amenities: Meaning, Amenities & Facilities at the destination. • Marketing Strategy: Hard v/s Soft Tourism Strategy. • Product Mix of Tourism Marketing: Meaning, Tourism Destination Life Cycle, Factors for tourism destination selection, launching a new tourism product, Tourism Product and Package Tour, Itinerary meaning, Types of Itinerary, Drawing a Itinerary for Tourist, Reservation meaning, Sources of reservation, Modes of Reservation, Ticketing Procedure
3	Concept of Pricing, Place, Promotion and Expanded marketing mix for tourism marketing
	<ul style="list-style-type: none"> • Price: Meaning, Factors Influencing Tourism Pricing, Tourism Pricing Objectives, Tourism Pricing Policies • Place: Meaning, Factors Influencing Tourism Distribution, Tourism Distribution System, Middlemen in Tourism Industry, Functions of Middlemen, Travel Guide Meaning, Essential of an ideal travel guide. • Promotion: Tourism Advertising, Tourism Publicity, Tourism Public Relation, Tourism Sales promotion Technique, Personal Selling in Tourism, Skills required for Selling Tourism Product, Electronics Channel of Tourism • People: Moment of Truth in Tourism, Employee as an element of people mix, Internal Marketing, Objectives of Internal Marketing, Internal marketing Process. • Process: Meaning, Factors to be considered while designing the service process, Tourism Service Blueprinting: Meaning, Steps, Benefits of Blueprinting • Physical Evidence for Tourism

Sr. No.	Modules / Units
4	Global Tourism, Tourism Organizations and Challenges for Indian Tourism Industry
	<ul style="list-style-type: none"> • Global Tourism Market: Overview of Tourism Market of America, Mauritius, Asia Pacific, Thailand, Vietnam, China, Singapore, Middle East and Gulf, UK and other European Countries. • Status of tourism in developing countries. • India as a Tourist Destination: A conceptual framework, Destination Image, Building Brand India; Incredible India Campaign • Challenges for Indian Tourism Industry • Tourism Organizations: World Trade Organization (WTO), International Civil Aviation Organization (ICAO), International Air Transport Association (IATA), Pacific Asia Travel Association (PATA), Universal Federation of Travel Agents Association (UFTAA), Travel Agents Association of India (TAAI), Indian Association of Tour Operators (IATO), Ministry of Tourism, Government of India, India Tourism Development Corporation.

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**Elective Courses (EC)
Group C. Human Resource Electives**

1. Human Resource Planning and Information System

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Overview of Human Resource Planning (HRP)	15
2	Job Analysis, Recruitment and Selection	15
3	HRP Practitioner, Aspects of HRP and Evaluation	15
4	Human Resource Information Systems	15
Total		60

Objectives

SN	Objectives
1	To Understand the Concept and Process of HRP
2	To Understand Ways of matching Job Requirements and Human Resource Availability
3	To Explore the concept of Strategic HRP
4	To Understand the applications of HRIS

Sr. No.	Modules / Units
1	Overview of Human Resource Planning (HRP)
	<p>a) Overview of Human Resource Planning (HRP): Human Resource Planning–Meaning, Features, Scope, Approaches, Levels of HRP, Types, Tools, Activities for HRP, Requirements for Effective HR Planning. Process of HRP- Steps in HRP, HR Demand Forecasting–Factors, Techniques – (Concepts Only) Managerial Judgement, Ratio Trend Analysis, Regression Analysis, Work Study Technique, Delphi Technique. HR Supply Forecasting– Factors, Techniques – (Concepts Only) Skills Inventories, Succession Plans, Replacement Charts, Staffing Tables.</p> <ul style="list-style-type: none"> • Barriers in Effective Implementation of HRP and Ways to Overcome Them. • Strategic Human Resource Planning –Meaning and Objectives. • Link between Strategic Planning and HRP through Technology. • HR Policy –Meaning, Importance. • HR Programme-Meaning and Contents.
2	Job Analysis, Recruitment and Selection
	<p>a) Job Analysis, Recruitment and Selection:</p> <ul style="list-style-type: none"> • Job Analysis-Meaning, Features, Advantages. • Job Design: Concept, Issues. • Job Redesign –Meaning, Process, Benefits. Matching Human Resource Requirement and Availability through: Retention- Meaning, Strategies, Resourcing- Meaning, Types. Flexibility – Flexible work practices, Downsizing- Meaning, Reasons, Layoff – Meaning, Reasons. • Recruitment - Meaning and Factors affecting Recruitment, Ethical Issues in Recruitment and Selection. • Employee Selection Tests: Meaning, Advantages and Limitations. • Human Resource Audit: Meaning, Need, Objectives, Process, Areas.
3	HRP Practitioner, Aspects of HRP and Evaluation
	<p>a) HRP Practitioner, Aspects of HRP and Evaluation:</p> <ul style="list-style-type: none"> • HRP Practitioner: Meaning, Role. • HRP Management Process: <ul style="list-style-type: none"> ▪ Establish HRP Department Goals and Objectives ▪ Creating HRP Department Structure ▪ Staffing the HRP Department ▪ Issuing Orders ▪ Resolving Conflicts ▪ Communicating ▪ Planning for Needed Resources ▪ Dealing with Power and Politics -Meaning and Types of Power • HRP as Tool to Enhance Organisational Productivity • Impact of Globalisation on HRP.

	<ul style="list-style-type: none"> • Aspects of HRP : Performance Management, Career Management, Management Training and Development, Multi Skill Development • Return on Investment in HRP- Meaning and Importance. • HRP Evaluation- Meaning, Need, Process, Issues to be considered during HRP Evaluation. • Selected Strategic Options and HRP Implications: Restructuring and its Impact on HRP, Mergers and Acquisitions and its Impact on HRP, Outsourcing and its Impact on HRP.
4	Human Resource Information Systems
	<ul style="list-style-type: none"> • Human Resource Information Systems: • Data Information Needs for HR Manager – Contents and Usage of Data. • HRIS-Meaning, Features, Evolution, Objectives, Essentials, Components, Functions, Steps in designing of HRIS, HRIS Subsystems, Mechanisms of HRIS, Benefits, Limitations, Barriers in Effective Implementation of HRIS. • Security Issues in Human Resource Information Systems. • HRIS for HRP • Trends in HRIS

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**Elective Courses (EC)
Group C. Human Resource Electives**

2. Training & Development in HRM

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Overview of Training	15
2	Overview of development	15
3	Concept of Management development	15
4	Performance measurement, Talent management & Knowledge management	15
Total		60

Objectives

SN	Objectives
1	This paper is not pure academic oriented but practice based. It has been designed, keeping in view the needs of the organizations. Successful managerial performance depends on the individual's ability to observe, interpret the issues and modify his approach and behaviour. All organizations need to pay adequate attention to equip their employees. Rapid progress in technology has changed not only in the physical facilities but also in the abstract qualities required of the men who are using them. This paper will attempt to orient the students to tailor themselves to meet the specific needs of the organizations in training and development activities.

Sr. No.	Modules / Units
1	Overview of Training
	<ul style="list-style-type: none"> • Overview of training– concept, scope, importance, objectives, features, need and assessment of training. • Process of Training–Steps in Training, identification of Job Competencies, criteria for identifying Training Needs (Person Analysis, Task Analysis, Organisation Analysis), Types–On the Job &Off the Job Method. • Assessment of Training Needs, Methods & Process of Needs Assessment. • Criteria &designing-Implementation– an effective training program.
2	Overview of Development
	<ul style="list-style-type: none"> • Overview of development– concept, scope, importance & need and features, Human Performance Improvement • Counselling techniques with reference to development employees, society and organization. • Career development– Career development cycle, model for planned self development, succession planning.
3	Concept of Management Development
	<ul style="list-style-type: none"> • Concept of Management Development. • Process of MDP. • Programs &methods, importance, evaluating a MDP.
4	Performance measurement, Talent management & Knowledge management
	<ul style="list-style-type: none"> • Performance measurements– Appraisals, pitfalls &ethics of appraisal. • Talent management –Introduction ,Measuring Talent Management, Integration & future of TM, Global TM &knowledge management— OVERVIEW -Introduction: History, Concepts, • Knowledge Management: Definitions and the Antecedents of KM Information Management to Knowledge Management , Knowledge Management: What Is and What Is Not?, Three stages of KM, KM Life Cycle

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**Elective Courses (EC)
Group C. Human Resource Electives**

3. Change Management

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction	15
2	Impact of Change	15
3	Resistance to Change	15
4	Effective Implementation of Change	15
Total		60

Objectives

SN	Objectives
1	The objective of this paper is to prepare students as organizational change facilitators using the knowledge and techniques of behavioural science.

Sr. No.	Modules / Units
1	Introduction
	<ul style="list-style-type: none"> • Introduction & levels of change. Importance, imperatives of change, Forces of change. Causes-social, economic, technological and organizational. • Organizational culture & change. • Types & Models of change – Kurt Lewin’s change model, Action research, Expanded Process Model., A.J. Leavitts model.
2	Impact of Change
	<ul style="list-style-type: none"> • Change & its implementation.– individual change: concept, need, importance & risk of not having individual perspective. Team Change –concept, need, importance & limitation • Change & its impact– Resistance to change & sources-sources of individual resistance, sources of organizational resistance
3	Resistance to Change
	<ul style="list-style-type: none"> • Overcoming Resistance to change – Manifestations of resistance, Six box model • Minimizing RTC. • OD Interventions to overcome change-meaning and importance, Team intervention, Role analysis Technique, Coaching & mentoring, T-group, Job expectations technique, Behaviour modification, Managing role stress.
4	Effective implementation of change
	<ul style="list-style-type: none"> • Effective implementation of change–change agents and effective change programs. • Systematic approach to change, client & consultant relationship • Classic skills for leaders • Case study on smart change leaders, caselets on Action research.

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**Elective Courses (EC)
Group C. Human Resource Electives**

4. Conflict & Negotiation

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Overview of Conflict	15
2	Conflict Management	15
3	Overview of Negotiation	15
4	Managing Negotiations, Ethics in Negotiation and 3D Negotiation	15
Total		60

Objectives

SN	Objectives
1	To understand the nature of conflicts, their causes and outcomes
2	To study the aspects of conflict management and how to handle them effectively
3	To get insight into negotiations and negotiation process
4	To understand the role of third party negotiation and skills for effective negotiation

Sr. No.	Modules / Units
1	<p>Overview of Conflict</p> <ul style="list-style-type: none"> • Meaning of Conflict, Nature, Transitions in Conflict Thought – Traditional View, Human Relations View, Interactionist View. Functional and Dysfunctional Conflict, Levels of Conflicts, Process of Conflicts. • Meaning of Industrial/ Organizational Conflict, Causes, Benefits and Limitations of Conflicts to the Organization. • Conflict Outcomes - win-lose, lose-lose, compromise, win-win. • Five belief domains of Conflicts – Superiority, Injustice, Vulnerability, Distrust, Helplessness
2	<p>Conflict Management</p> <ul style="list-style-type: none"> • Meaning of Conflict management, Need and Importance of Conflict management, Conflict Resolution Strategies - Competing, Accommodating, Avoiding, Compromising, Collaborative. Strategies for resolving conflicts at – Intra-personal, Inter-personal, Intra-group and Inter group levels. • Prevention of Industrial Conflicts – Labour welfare officer, Tripartite and Bipartite Bodies, Standing Orders, Grievance Procedure, Collective Bargaining. • Settlement of Conflicts – Investigation, Mediator, Conciliation, Voluntary arbitration, compulsory arbitration, labour courts, industrial tribunals, national tribunals
3	<p>Overview of Negotiation</p> <ul style="list-style-type: none"> • Negotiation - Meaning, Importance of Negotiation, Process, Factors/ Elements affecting negotiation, Challenges for an Effective Negotiation • Role of Communication, Personality and Emotions in Negotiation. • Distributive and Integrative Negotiation (concepts) • Cross-Cultural Negotiation – Meaning, Factors influencing cross-cultural negotiations, Ways to resolve Cross Cultural negotiation. • Types of Negotiations in Corporates/ Work Place – Day to Day, Employer – Employee, Negotiation between Colleagues, Commercial Negotiation, Legal Negotiations • International Negotiations - Meaning, Factors affecting negotiation
4	<p>Managing Negotiations, Ethics in Negotiation and 3D Negotiation</p> <ul style="list-style-type: none"> • Third Party Negotiation <ol style="list-style-type: none"> 1. Mediation - Meaning, Role of Mediator 2. Arbitration – Meaning, Role of Arbitrator 3. Conciliation – Meaning, Role of Conciliator 4. Consultation – Meaning, Role of Consultant • Skills for Effective Negotiation • Negotiation as an Approach to Manage Conflicts. • Ethics in Negotiation – Meaning, Need, Ethically Ambiguous Negotiation Tactics. • Culture and Negotiation – Meaning, Influence of culture on negotiations • 3D Negotiation – Meaning, The 3 Dimensions for successful negotiations

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**2. Ability Enhancement Courses (AEC)
2A. Ability Enhancement Compulsory Course**

3. Information Technology in Business Management-II

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Management Information system	15
2	ERP/E-SCM/E-CRM	15
3	Introduction to databases and data warehouse	15
4	Outsourcing	15
Total		60

Objectives

SN	Objectives
1	To understand managerial decision-making and to develop perceptiveness of major functional area of MIS
2	To provide conceptual study of Enterprise Resource Planning, Supply Chain Management, Customer Relationship Management, Key issues in implementation. This module provides understanding about emerging MIS technologies like ERP, CRM, SCM and trends in enterprise applications.
3	To learn and understand relationship between database management and data warehouse approaches, the requirements and applications of data warehouse
4	To learn outsourcing concepts. BPO/KPO industries, their structures, Cloud computing

Sr. No.	Modules / Units
1	Management Information System
	<ul style="list-style-type: none"> • Overview of MIS Definition, Characteristics • Subsystems of MIS (Activity and Functional subsystems) • Structure of MIS • Reasons for failure of MIS. • Understanding Major Functional Systems Marketing & Sales Systems Finance & Accounting Systems Manufacturing & Production Systems Human Resource Systems Inventory Systems • Sub systems, description and organizational levels • Decision support system Definition Relationship with MIS • Evolution of DSS, Characteristics, classification, objectives, components, applications of DSS
2	ERP/E-SCM/E-CRM
	<ul style="list-style-type: none"> • Concepts of ERP • Architecture of ERP Generic modules of ERP • Applications of ERP • ERP Implementation concepts ERP lifecycle • Concept of XRP (extended ERP) • Features of commercial ERP software Study of SAP, Oracle Apps, MS Dynamics NAV, Peoplesoft • Concept of e-CRM E-CRM Solutions and its advantages, How technology helps? • CRM Capabilities and customer Life cycle Privacy Issues and CRM • Data Mining and CRM CRM and workflow Automation • Concept of E-SCM Strategic advantages, benefits E-SCM Components and Chain Architecture • Major Trends in e-SCM • Case studies ERP/SCM/CRM

Sr. No.	Modules / Units
3	Introduction to Data base and Data warehouse
	<ul style="list-style-type: none"> • Introduction to DBMS Meaning of DBMS, Need for using DBMS. Concepts of tables, records, attributes, keys, integrity constraints, schema architecture, data independence. • Data Warehousing and Data Mining Concepts of Data warehousing, Importance of data warehouse for an organization Characteristics of Data warehouse Functions of Data warehouse Data warehouse architecture Business use of data warehouse Standard Reports and queries • Data Mining The scope and the techniques used • Business Applications of Data warehousing and Data mining
4	Outsourcing
	<ul style="list-style-type: none"> • Introduction to Outsourcing Meaning of Outsourcing, Need for outsourcing Scope of Outsourcing. Outsourcing : IT and Business Processes • Business Process Outsourcing (BPO) Introduction • BPO Vendors How does BPO Work? BPO Service scope Benefits of BPO BPO and IT Services Project Management approach in BPO BPO and IT-enabled services • BPO Business Model Strategy for Business Process Outsourcing Process of BPO ITO Vs BPO • BPO to KPO Meaning of KPO KPO vs BPO KPO : Opportunity and Scope KPO challenges KPO Indian Scenario • Outsourcing in Cloud Environment Cloud computing offerings • Traditional Outsourcing Vs. Cloud Computing

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**2. Ability Enhancement Courses (AEC)
2B. Skill Enhancement Courses (SEC)**

**4. Foundation Course –IV
Ethics & Governance**

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Ethics and Business Ethics	12
2	Ethics in Marketing, Finance and HRM	11
3	Corporate Governance	11
4	Corporate Social Responsibility (CSR)	11
Total		45

Objectives

SN	Objectives
1	To understand significance of ethics and ethical practices in businesses which are indispensable for progress of a country
2	To learn the applicability of ethics in functional areas like marketing, finance and human resource management
3	To understand the emerging need and growing importance of good governance and CSR by organisations
4	To study the ethical business practices, CSR and Corporate Governance practiced by various organisations

Sr. No.	Modules / Units
1	Introduction to Ethics and Business Ethics
	<ul style="list-style-type: none"> • Ethics: Concept of Ethics, Evolution of Ethics, Nature of Ethics- Personal, Professional, Managerial Importance of Ethics, Objectives, Scope, Types – Transactional, Participatory and Recognition • Business Ethics: Meaning, Objectives, Purpose and Scope of Business Ethics Towards Society and Stakeholders, Role of Government in Ensuring Business Ethics Principles of Business Ethics, 3 Cs of Business Ethics – Compliance, Contribution and Consequences Myths about Business Ethics Ethical Performance in Businesses in India
2	Ethics in Marketing, Finance and HRM
	<ul style="list-style-type: none"> • Ethics in Marketing: Ethical issues in Marketing Mix, Unethical Marketing Practices in India, Ethical Dilemmas in Marketing, Ethics in Advertising and Types of Unethical Advertisements • Ethics In Finance: Scope of Ethics in Financial Services, Ethics of a Financial Manager – Legal Issues, Balancing Act and Whistle Blower, Ethics in Taxation, Corporate Crime - White Collar Crime and Organised Crime, Major Corporate Scams in India, Role of SEBI in Ensuring Corporate Governance, Cadbury Committee Report, 1992 • Ethics in Human Resource Management: Importance of Workplace Ethics, Guidelines to Promote Workplace Ethics, Importance of Employee Code of Conduct, Ethical Leadership
3	Corporate Governance
	<ul style="list-style-type: none"> • Concept, History of Corporate Governance in India, Need for Corporate Governance • Significance of Ethics in Corporate Governance, Principles of Corporate Governance, Benefits of Good Governance, Issues in Corporate Governance • Theories- Agency Theory, Shareholder Theory, Stakeholder Theory and Stewardship Theory • Corporate Governance in India, Emerging Trends in Corporate Governance, Models of Corporate Governance, Insider Trading
4	Corporate Social Responsibility (CSR)
	<ul style="list-style-type: none"> • Meaning of CSR, Evolution of CSR, Types of Social Responsibility • Aspects of CSR- Responsibility, Accountability, Sustainability and Social Contract • Need for CSR • CSR Principles and Strategies • Issues in CSR • Social Accounting • Tata Group’s CSR Rating Framework • Sachar Committee Report on CSR • Ethical Issues in International Business Practices • Recent Guidelines in CSR • Society’s Changing Expectations of Business With Respect to Globalisation • Future of CSR

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***2. Ability Enhancement Courses (AEC)
2B. Skill Enhancement Courses (SEC)***

Foundation Course- Contemporary Issues- IV

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Significant, Contemporary Rights of Citizens	12
2	Approaches to understanding Ecology	11
3	Science and Technology –II	11
4	Introduction to Competitive Exams	11
Total		45

Sr. No.	Modules / Units
1	Significant, Contemporary Rights of Citizens
	<p>A. Rights of Consumers-Violations of consumer rights and important provisions of the Consumer Protection Act, 2016; Other important laws to protect consumers; Consumer courts and consumer movements. (3 Lectures)</p> <p>B. Right to Information- Genesis and relation with transparency and accountability; important provisions of the Right to Information Act, 2005; some success stories. (3 Lectures)</p> <p>C. Protection of Citizens'/Public Interest-Public Interest Litigation, need and procedure to file a PIL; some landmark cases. (3 Lectures)</p> <p>D. Citizens' Charters, Public Service Guarantee Acts. (3 Lectures)</p>
2	Approaches to understanding Ecology
	<p>A. Understanding approaches to ecology- Anthropocentrism, Biocentrism and Eco centrism, Ecofeminism and Deep Ecology. (3 Lectures)</p> <p>B. Environmental Principles-1: the sustainability principle; the polluter pays principle; the precautionary principle. (4 Lectures)</p> <p>C. Environmental Principles-2: the equity principle; human rights principles; the participation principle. (4 Lectures)</p>
3	Science and Technology –II
	<p>Part A:Some Significant Modern Technologies, Features and Applications (7 Lectures)</p> <p>i. Laser Technology- Light Amplification by Stimulated Emission of Radiation; use of laser in remote sensing, GIS/GPS mapping, medical use.</p> <p>ii. Satellite Technology- various uses in satellite navigation systems, GPS, and imprecise climate and weather analyses.</p> <p>iii. Information and Communication Technology- convergence of various technologies like satellite, computer and digital in the information revolution of today's society.</p> <p>iv. Biotechnology and Genetic engineering- applied biology and uses in medicine, pharmaceuticals and agriculture; genetically modified plant, animal and human life.</p> <p>v. Nanotechnology- definition: the study, control and application of phenomena and materials at length scales below 100 nm; uses in medicine, military intelligence and consumer products.</p> <p>Part B:Issues of Control, Access and Misuse of Technology. (4 Lectures)</p>

Sr. No.	Modules / Units
4	Introduction to Competitive Exams
	<p>Part A. Basic information on Competitive Examinations- the pattern, eligibility criteria and local centres:</p> <ul style="list-style-type: none"> i. Examinations conducted for entry into professional courses - Graduate Record Examinations (GRE), Graduate Management Admission Test (GMAT), Common Admission Test (CAT) and Scholastic Aptitude Test (SAT). ii. Examinations conducted for entry into jobs by Union Public Service Commission, Staff Selection Commission (SSC), State Public Service Commissions, Banking and Insurance sectors, and the National and State Eligibility Tests (NET / SET) for entry into teaching profession. <p>Part B. Soft skills required for competitive examinations- (7 Lectures)</p> <ul style="list-style-type: none"> i. Information on areas tested: Quantitative Ability, Data Interpretation, Verbal Ability and Logical Reasoning, Creativity and Lateral Thinking ii. Motivation: Concept, Theories and Types of Motivation iii. Goal-Setting: Types of Goals, SMART Goals, Stephen Covey's concept of human endowment iv. Time Management: Effective Strategies for Time Management v. Writing Skills: Paragraph Writing, Report Writing, Filing an application under the RTI Act, Consumer Grievance Letter.

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1. Asthana, D. K., and Asthana, Meera, *Environmental Problems and Solutions*, S. Chand, New Delhi, 2012.
2. Bajpai, Asha, *Child Rights in India*, Oxford University Press, New Delhi, 2010.
3. Bhatnagar Mamta and Bhatnagar Nitin, *Effective Communication and Soft Skills*, Pearson India, New Delhi, 2011.
4. G Subba Rao, *Writing Skills for Civil Services Examination*, Access Publishing, New Delhi, 2014
5. Kaushal, Rachana, *Women and Human Rights in India*, Kaveri Books, New Delhi, 2000.
6. Mohapatra, Gaur Krishna Das, *Environmental Ecology*, Vikas, Noida, 2008.
7. Motilal, Shashi, and Nanda, Bijoy Lakshmi, *Human Rights: Gender and Environment*, Allied Publishers, New Delhi, 2007.
8. Murthy, D. B. N., *Disaster Management: Text and Case Studies*, Deep and Deep Publications, New Delhi, 2013.
9. Parsuraman, S., and Unnikrishnan, ed., *India Disasters Report II*, Oxford, New Delhi, 2013
10. Reza, B. K., *Disaster Management*, Global Publications, New Delhi, 2010.
11. Sathe, Satyaranjan P., *Judicial Activism in India*, Oxford University Press, New Delhi, 2003.
12. Singh, Ashok Kumar, *Science and Technology for Civil Service Examination*, Tata McGraw Hill, New Delhi, 2012.
13. Thorpe, Edgar, *General Studies Paper I Volume V*, Pearson, New Delhi, 2017.

Projects / Assignments (for Internal Assessment)

- i. Projects/Assignments should be drawn for the component on Internal Assessment from the topics in **Module 1 to Module 4**.
- ii. Students should be given a list of possible topics - at least 3 from each Module at the beginning of the semester.
- iii. The Project/Assignment can take the form of Street-Plays / Power-Point Presentations / Poster Exhibitions and similar other modes of presentation appropriate to the topic.
- iv. Students can work in groups of not more than 8 per topic.
- v. Students must submit a hard / soft copy of the Project / Assignment before appearing for the semester end examination.

QUESTION PAPER PATTERN (Semester III)

The Question Paper Pattern for Semester End Examination shall be as follows:

TOTAL MARKS: 75

DURATION: 150 MINUTES

QUESTION NUMBER	DESCRIPTION	MARKS ASSIGNED
1	<ol style="list-style-type: none">i. Question 1 A will be asked on the meaning / definition of concepts / terms from all Modules.ii. Question 1 B will be asked on the topic of the Project / Assignment done by the student during the Semesteriii. In all 8 Questions will be asked out of which 5 have to be attempted.	<ol style="list-style-type: none">a) Total marks: 15b) For 1 A, there will be 3 marks for each sub-question.c) For 1 B there will be 15 marks without any break-up.
2	Descriptive Question with internal option (A or B) on Module 1	15
3	Descriptive Question with internal option (A or B) on Module 2	15
4	Descriptive Question with internal option (A or B) on Module 3	15
5	Descriptive Question with internal option (A or B) on Module 4	15

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***2. Ability Enhancement Courses (AEC)
2B. Skill Enhancement Courses (SEC)***

4. Foundation Course in NSS - IV

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Entrepreneurship Development	10
2	Rural Resource Mobilization	10
3	Ideal village & stake of GOS and NGO	13
4	Institutional Social Responsibility and modes of Awareness	12
	Total	45

Sr. No.	Modules / Units
1	Entrepreneurship Development
	UNIT - I Entrepreneurship development Entrepreneurship development- its meaning and schemes Government and self-employment schemes for Entrepreneurship development UNIT - II - Cottage Industry Cottage Industry- its meaning, its role in development process Marketing of cottage products and outlets
2	Rural Resource Mobilization
	UNIT - I - Rural resource mobilization- A case study of eco-village, eco-tourism, agro-tourism UNIT - II - Micro financing with special reference to self-help groups
3	Ideal village & stake of GOS and NGO
	UNIT - I - Ideal village Ideal village- the concept Gandhian Concept of Ideal village Case studies on Ideal village UNIT - II - Government Organisations(GOs) and Non-Government Organisations (NGOs) The concept and functioning
4	Institutional Social Responsibility and modes of Awareness
	UNIT - I - Institutional Social Responsibilities Concept and functioning- case study of adapted village UNIT - II - Modes of awareness through fine Arts Skills Basics of performing Arts as tool for social awareness, street play, creative dance, patriotic song, folk songs and folk dance. Rangoli, posters, flip charts, placards, etc.

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***2. Ability Enhancement Courses (AEC)
2B. Skill Enhancement Courses (SEC)***

4. Foundation Course in NCC - IV

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Disaster Management, Social Awareness and Community Development	10
2	Health and Hygiene	10
3	Drill with Arms	05
4	Weapon Training	10
5	Specialized Subject: Army Or Navy Or Air	10
	Total	45

Sr. No.	Modules / Units
1	Disaster Management, Social Awareness and Community Development
	<p>Disaster Management: Desired outcome: The student shall gain basic information about civil defence organisation / NDMA & shall provide assistance to civil administration in various types of emergencies during natural / manmade disasters</p> <ul style="list-style-type: none"> • Fire Services & Fire fighting • Assistance during Natural / Other Calamities: Flood / Cyclone/ Earth Quake/ Accident etc. <p>Social Awareness and Community Development: Desired outcome: The student shall have an understanding about social evils and shall inculcate sense of whistle blowing against such evils and ways to eradicate such evils.</p> <ul style="list-style-type: none"> • NGOs: Role & Contribution • Drug Abuse & Trafficking • Corruption • Social Evil viz. Dowry/ Female Foeticide/Child Abuse & trafficking etc. • Traffic Control Org. & Anti drunken Driving
2	Health and Hygiene
	<p>Desired outcome: The student shall be fully aware about personal health and hygiene lead a healthy life style and foster habits of restraint and self awareness.</p> <ul style="list-style-type: none"> • Hygiene and Sanitation (Personal and Food Hygiene) • Basics of Home Nursing & First-Aid in common medical emergencies • Wound & Fractures
3	Drill with Arms
	<p>Desired outcome: The students will demonstrate the sense of discipline, improve bearing, smartness, and turnout, and develop the quality of immediate and implicit obedience of orders, with good reflexes.</p> <ul style="list-style-type: none"> • Getting on Parade with Rifle and Dressing at the Order • Dismissing and Falling Out • General Salute, Salami Shastra • Squad Drill • Short/Long tail from the order and vice-versa • Examine Arms
4	Weapon Training
	<p>Desired outcome: The student shall have basic knowledge of weapons and their use and handling.</p> <ul style="list-style-type: none"> • The lying position, Holding and Aiming- I • Trigger control and firing a shot • Range procedure and safety precautions • Theory of Group and Snap Shooting • Short range firing, Aiming- II -Alteration of sight

Sr. No.	Modules / Units
5	Specialized Subject: Army Or Navy Or Air
	<p>Army Desired outcome: The training shall instill patriotism, commitment and passion to serve the nation motivating the youth to join the defence forces. It will also acquaint, expose & provide basic knowledge about armed, naval and air-force subjects</p> <p>A. Map reading</p> <ul style="list-style-type: none"> • Setting a Map, finding North and own position • Map to ground, Ground to Map • Point to Point March <p>B. Field Craft and Battle Craft</p> <ul style="list-style-type: none"> • Observation, Camouflage and Concealment • Field Signals • Types of Knots and Lashing <p>C. Introduction to advanced weapons and role of technology (To be covered by the guest lecturers)</p> <p style="text-align: center;"><i>OR</i></p> <p>Navy</p> <p>A. Naval Communication</p> <ul style="list-style-type: none"> • Semaphore <ul style="list-style-type: none"> ▪ Phonetic Alphabets ▪ Radio Telephony Procedure ▪ Wearing of National Flag, Ensign and Admiral's Flag. <p>B. Seamanship</p> <ul style="list-style-type: none"> • Anchor work <ul style="list-style-type: none"> ▪ Types of Anchor, Purpose and Holding ground • Boat work <ul style="list-style-type: none"> ▪ Demonstrate Rigging a whaler and enterprise boat- Parts of Sail and Sailing Terms ▪ Instructions in Enterprise Class Board including theory of Sailing, Elementary Sailing Tools ▪ Types of Power Boats Used in the Navy and their uses, Knowledge of Anchoring, Securing and Towing a Boat <p>C. Introduction to advanced weapons and role of technology (To be covered by the guest lecturers)</p>

Sr. No.	Modules / Units
	<p style="text-align: center;"><i>OR</i></p> <p>Air</p> <p>A. Air frames</p> <ul style="list-style-type: none">• Fuselage• Main and Tail Plain <p>B. Instruments</p> <ul style="list-style-type: none">• Introduction to RADAR <p>C. Aero modelling</p> <ul style="list-style-type: none">• Flying/ Building of Aero models <p>D. Introduction to advanced weapons and role of technology (To be covered by the guest lecturers)</p>

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***2. Ability Enhancement Courses (AEC)
2B. Skill Enhancement Courses (SEC)***

4. Foundation Course in Physical Education - IV

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Stress Management	10
2	Awards, Scholarship & Government Schemes	10
3	Yoga Education	10
4	Exercise Scheduling/Prescription	15
Total		45

Sr. No.	Modules / Units
1	Stress Management
	<ul style="list-style-type: none"> • Meaning & concept of Stress • Causes of Stress • Managing Stress • Coping Strategies
2	Awards, Scholarship & Government Schemes
	<ul style="list-style-type: none"> • State & National level Sports Awards • State Sports Policy & Scholarship Schemes • National Sports Policy & Scholarship Schemes • Prominent Sports Personalities
3	Yoga Education
	<ul style="list-style-type: none"> • Differences between Yogic Exercises & non- Yogic exercises • Contribution of Yoga to Sports • Principles of Asanas & Bandha • Misconceptions about Yoga
4	Exercise Scheduling/Prescription
	<ul style="list-style-type: none"> • Daily Routine Prescription. • Understanding Activity level & Calorie requirement. • Adherence & Motivation for exercise. • Impact of Lifestyle on Health

**Revised Syllabus of Courses of Bachelor of Management Studies (BMS)
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3. Core Courses (CC)

5. Business Economics- II

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Macroeconomic Data and Theory	15
2	Money, Inflation and Monetary Policy	15
3	Constituents of Fiscal Policy	15
4	Open Economy : Theory and Issues of International Trade	15
	Total	60

Sr. No.	Modules / Units
1	Introduction to Macroeconomic Data and Theory
	<ul style="list-style-type: none"> • Macroeconomics: Meaning, Scope and Importance. • Circular flow of aggregate income and expenditure: closed and open economy models • The Measurement of national product: Meaning and Importance - conventional and Green GNP and NNP concepts - Relationship between National Income and Economic Welfare. • Short run economic fluctuations : Features and Phases of Trade Cycles • The Keynesian Principle of Effective Demand: Aggregate Demand and Aggregate Supply - Consumption Function - Investment function - effects of Investment Multiplier on Changes in Income and Output
2	Money, Inflation and Monetary Policy
	<ul style="list-style-type: none"> • Money Supply: Determinants of Money Supply - Factors influencing Velocity of Circulation of Money • Demand for Money : Classical and Keynesian approaches and Keynes' liquidity preference theory of interest • Money and prices : Quantity theory of money - Fisher's equation of exchange - Cambridge cash balance approach • Inflation: Demand Pull Inflation and Cost Push Inflation - Effects of Inflation- Nature of inflation in a developing economy. • Monetary policy : Meaning, objectives and instruments, inflation targeting
3	Constituents of Fiscal Policy
	<ul style="list-style-type: none"> • Role of a Government to provide Public goods- Principles of Sound and Functional Finance • Fiscal Policy: Meaning, Objectives - Contra cyclical Fiscal Policy and Discretionary Fiscal Policy • Instruments of Fiscal policy : Canons of taxation - Factors influencing incidence of taxation - Effects of taxation Significance of Public Expenditure - Social security contributions- Low Income Support and Social Insurance Programmes - Public Debt - Types, Public Debt and Fiscal Solvency, Burden of debt finance • Union budget -Structure- Deficit concepts-Fiscal Responsibility and Budget Management Act.
4	Open Economy : Theory and Issues of International Trade
	<ul style="list-style-type: none"> • The basis of international trade : Ricardo's Theory of comparative cost advantage - The Heckscher – Ohlin theory of factor endowments- terms of trade - meaning and types Factors determining terms of trade - Gains from trade - Free trade versus protection • Foreign Investment : Foreign Portfolio investment- Benefits of Portfolio capital flows- Foreign Direct Investment - Merits of Foreign Direct Investment - Role of Multinational corporations • Balance of Payments: Structure -Types of Disequilibrium - Measures to correct disequilibrium in BOP. • Foreign Exchange and foreign exchange market : Spot and Forward rate of Exchange - Hedging, Speculation and Arbitrage -Fixed and Flexible exchange rates- Managed flexibility

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3. Core Courses (CC)

6. Business Research Methods

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to business research methods	18
2	Data collection and Processing	14
3	Data analysis and Interpretation	16
4	Advanced techniques in Report Writing	12
Total		60

Objectives

SN	Objectives
1	The course is designed to inculcate the analytical abilities and research skills among the students.
2	The course intends to give hands on experience and learning in Business Research.

Sr. No.	Modules / Units
1	Introduction to business research methods
	<ul style="list-style-type: none"> • Meaning and objectives of research • Types of research– a)Pure, Basic and Fundamental b) Applied, c)Empirical d) Scientific & Social e)Historical f) Exploratory g) Descriptive h)Causal • Concepts in Research: Variables, Qualitative and Quantitative Research • Stages in research process. • Characteristics of Good Research • Hypothesis-Meaning, Nature, Significance, Types of Hypothesis, Sources. • Research design– Meaning, Definition, Need and Importance, Steps in research design, Essentials of a good research design, Areas / Scope of research design and Types-Descriptive, Exploratory and causal. • Sampling– <ul style="list-style-type: none"> a) meaning of sample and sampling, b) methods of sampling-i)Non Probability Sampling– Convenient, Judgment, Quota, Snow ball ii) Probability– Simple Random, Stratified, Cluster, Multi Stage.
2	Data collection and Processing
	<ul style="list-style-type: none"> • Types of data and sources-Primary and Secondary data sources • Methods of collection of primary data <ul style="list-style-type: none"> a) Observation- i)structured and unstructured, ii) disguised and undisguised, iii)mechanical observations (use of gadgets) b) Experimental i)Field ii) Laboratory c) Interview – i) Personal Interview ii)focused group, iii) in- depth interviews - Method, d) Survey– Telephonic survey, Mail, E-mail, Internet survey, Social media, and Media listening. e) Survey instrument– i) Questionnaire designing. f) Types of questions– i) structured/ close ended and ii) unstructured/ open ended, iii) Dicotomous, iv) Multiple Choice Questions. f) Scaling techniques-i) Likert scale, ii) Semantic Differential scale
3	Data analysis and Interpretation
	<ul style="list-style-type: none"> • Processing of data– i) Editing- field and office editing, ii)coding– meaning and essentials, iii) tabulation – note • Analysis of data-Meaning, Purpose, types. • Interpretation of data-Essentials, importance and Significance of processing data • Multivariate analysis– concept only • Testing of hypothesis– concept and problems– i)chi square test, ii) Zandt-test (for large and small sample)
4	Advanced techniques in Report Writing
	<ul style="list-style-type: none"> • Report writing – i) Meaning , importance, functions of reports, essential of a good report, content of report , steps in writing a report, types of reports, Footnotes and Bibliography • Ethics and research • Objectivity, Confidentiality and anonymity in Research • Plagiarism

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3. Core Courses (CC)

7. Production & Total Quality Management

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Production Management	14
2	Materials Management	16
3	Basics Of Productivity & TQM	16
4	Quality Improvement Strategies & Certifications	14
Total		60

Objectives

SN	Objectives
1	To acquaint learners with the basic management decisions with respect to production and quality management
2	To make the learners understand the designing aspect of production systems
3	To enable the learners apply what they have learnt theoretically.

Sr. No.	Modules / Units
1	Production Management
	<p>Production Management</p> <ul style="list-style-type: none"> • Objectives, Components–Manufacturing systems: Intermittent and Continuous Production Systems. • Product Development, Classification and Product Design. • Plant location & Plant layout– Objectives, Principles of good product layout, types of layout. • Importance of purchase management.
2	Materials Management
	<ul style="list-style-type: none"> • Materials Management: Concept, Objectives and importance of materials management Various types of Material Handling Systems. • Inventory Management: Importance–Inventory Control Techniques ABC, VED, FSN, GOLF, XYZ, SOS, HML. EOQ: Assumptions limitations & advantages of Economic Order Quantity, Simple numerical on EOQ , Lead Time, Reorder Level, Safety Stock.
3	Basics Of Productivity &TQM
	<ul style="list-style-type: none"> • Basics Of Productivity &TQM: Concepts of Productivity, modes of calculating productivity. Importance Of Quality Management, factors affecting quality; TQM– concept and importance, Cost of Quality, Philosophies and Approaches To Quality: Edward Deming, J. Juran , Kaizen , P. Crosby’s philosophy. • Product & Service Quality Dimensions, SERVQUAL Characteristics of Quality, Quality Assurance, Quality Circle : Objectives Of Quality Circles, Ishikawa Fish Bone, Applications in Organizations. Simple numerical on productivity
4	Quality Improvement Strategies &Certifications
	<ul style="list-style-type: none"> • Quality Improvement Strategies &Certifications: Lean Thinking, Kepner Tregor Methodology of problem solving, Sigma features, Enablers, Goals, DMAIC/DMADV. <p>TAGUCHI’S QUALITYENGINEERING,ISO 9000,ISO 1400, QS9000. Malcolm Baldrige National Quality Award(MBNQA), Deming’s Application Prize.</p>

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Reference Books

Reference Books

Basics of Financial Services

1. Khan M.Y., Indian Financial System, Tata McGraw Hill Publishing Company
2. Varshney P.N. & Mittal MN, Financial System, Sultan Chand & Co
3. A. Avadhani , Marketing of Financial Services-
4. Bhole L. M: Financial Markets and Institutions; Tata McGraw-Hill Publishing Company, New Delhi.
5. Chandra Prasanna: Financial Management: Theory and Practice; Tata McGraw Hill, New Delhi.
6. Gupta Suraj B: Monetary Economics; S. Chand and Co., New Delhi.

Introduction to Cost Accounting

1. Cost Accounting-Principles and Practice; Arora M.N: Vikas, New Delhi.
2. Cost Accounting; Jain S.P. and Narang K.L: Kalyani New Delhi.
3. Principles of Management Accounting; Anthony Robert, Reece, et at: Richard D. Irwin Inc. Illinois.
4. Cost Accounting - A Managerial Emphasis; Prentice-Hall of India, Horngren, Charles, Foster and Datar: New Delhi

Equity and Debt Market

1. Allen, Larry (1750-2000). The Global Financial System.
2. Ian H. Giddy (1994). Global Financial Markets. Houghton Mifflin.
3. Saunders, Anthony & Cornett, Marica Millon. Financial markets & institutions: A modern perspective: TMIT
4. LM Bhole. Financial institutions & markets: Structure, growth & innovations. TMH (5th ed.)
5. Chandra, P. (2011).Corporate Valuation and Value Creation, (1st ed). TMH

Corporate Finance

1. Foster, George Financial Statement Analysis, 2nd ed., Pearson Education Pvt Ltd
2. Damodaran, A. (2008). Damodaran on Valuation, Security Analysis for Investment and Corporate Finance (2nd ed.). Wiley India Pvt. Ltd.
3. Chandra, P. (2011).Corporate Valuation and Value Creation, (1st ed). TMH
4. Weston, Chung, Hoag, Mergers, Restructuring and Corporate Control, Prentice Hall Of India.
5. M.Y. Khan and P.K. Jain - Financial Management - Tata - McGraw Hill Publishing co. Ltd., New Delhi.
6. Prasanna Chandra - Financial Management - Tata - McGraw Hill

Consumer Behaviour

1. Schiffman, L.G., Kanuk, L.L., & Kumar, S.R. (2011). Consumer Behaviour. (10th ed.). Pearson.
2. Solomon, M.R. (2009). Consumer Behaviour – Buying, Having, and Being. (8th ed.) New Delhi: Pearson .
3. Blackwell, R.D., Miniard, P.W., & Engel, J. F. (2009). Consumer Behaviour. New Delhi: Cengage Learning.
4. Hawkins, D.I., Best, R. J., Coney, K.A., & Mookerjee, A. (2007). Consumer Behaviour – Building Marketing Strategy. (9th ed.). Tata McGraw Hill.
5. Loudan, David L and Bitta, A.J. Della Consumer Behaviour
6. Kotler, P. & Keller, K. L. (2012). Marketing Management (Global Edition) (14th ed.). Pearson
7. Nair, Suja R- Consumer Behaviour in Indian Perspective

Product Innovations Management

1. Dr. C.S.G. Krishnamacharyulu and Dr. R. Lalitha, Innovation Management, Himalaya Publishing House, First Edition 2007
2. Karl Ulrich, Product design and Development, McGraw hill, 4 Edition.
3. Michael Baker and Susan Hart, Product strategy and Management, Pearson Education, 2nd Edition
4. Jacob Goldenberg and David Mazursky, Creativity in product innovation, Cambridge University Press, 2002
5. Robert G. Cooper and Scott J. Edgett, Product innovation and technology strategy, Product Development Institute Inc., 2009
6. Allan Afuah, Innovation Management: Strategies Implementation & Profits, Oxford University Press, 2009

Advertising

1. Belch, Michael, “Advertising and Promotion: An integrated marketing communications perspective” Tata Mcgraw Hill 2010
2. Mohan, Manendra “Advertising Management Concept and Cases”, Tata Mcgraw Hill 2008
3. Kleppner, Russell J; Thomac, Lane W , “Advertising Procedure”, Prentice Hall 1999
4. Shimp, Terence, “Advertising and promotion :An IMC Approach”, Cengage Learning 2007
5. Sharma, Sangeeta and Singh, Raghuvir “Advertising planning and Implementation”, Prentice Hall of India 2006
6. Clow , Kenneth E and Baack, Donald E “Inetegrated Advertising Promotion and Marketing Communication”, Pearson Edu 2014
7. Duncan, Tom, “Principles of Advertising and IMC”, Tata Mcgraw Hill Pub 2006

Social Marketing

1. Andreasen A & Kotler P (2008), Strategic Marketing for Nonprofit Organisations 7th International Edition, Upper Saddle River NJ: Prentice Hall.
2. Andreasen, A.R. (2006). Social Marketing in the 21st century. London, UK: Sage.
3. Social Marketing in India, Nancy Lee and Sameer Deshpande, SAGE Publications, 2013
4. Social Marketing, S M Jha, Himalaya Publishing House, 2012, (2nd Edition)
5. Social Marketing: Influencing Behaviors for Good, Nancy R. Lee, Philip Kotler, SAGE Publications, 2011 (4th Edition)
6. French, J., Blairs-Stevens, C., McVey, D., and Merritt, R., (2010), Social Marketing and Public Health, Theory and Practice, Oxford Press, UK.
7. French, J., Blairs-Stevens, C., McVey, D., and Merritt, R., (2010), Social Marketing and Public Health, Theory and Practice, Oxford Press, UK.
8. Weinrich, HK 2011, Hands-on social marketing: a step-by-step guide to designing change for good, Second Edition, Sage Thousand Oaks, CA

Recruitment & Selection

1. Dipak Kumar Bhattacharya - Human Resource Management
2. Arun Monappa- Managing Human Resource .
3. C.B. Memoria -Personnel Management-
4. Armstrong, Michael & Baron Angela. (2005). *Handbook of Strategic HRM* (1st ed.). New Delhi: Jaico Publishing House.
5. Mello, Jeffrey A. (2007). *Strategic Human Resource Management* (2nd ed.). India: Thomson South Western.

Motivation & Leadership

1. Stephen P. Robbins, Timothy A. Judge (Author) - Organizational behaviour (15th Edition), Prentice Hall Publication.
2. Niraj Kumar- Organisational Behaviour: A New Looks (Concept, Theory & Cases), Himalaya Publishing House
3. Strategic Leadership – Sahu & Bharati – Excel Books
4. Peter I. Dowling & Denice E. (2006). International HRM (1st ed.). New Delhi. Excel Books.
5. French Wendell, Bell Cecil and Vohra Veena. (2004). Organization Development, Behavioral Science Interventions for Organization Improvement. (6th ed.)

Employees Relations & Welfare

1. Personnel Management and Industrial relations – P. C. Shejwalkar and S. B. Malegaonkar
2. Labour Management relations in India – K.M. Subramanian
3. Trade Unionism Myth and Reality, New Delhi, Oxford University Press, 1982
4. Dynamic Personnel Administration – Prof. M.N. Rudrabasavraj.

Organization Behaviour & HRM

1. Griffin, Ricky W: Organizational Behaviour, Houghton Mifflin Co., Boston.
2. Prasad L M, *Organizational Behaviour*, Sultan Chand
3. Khanka S. S., *Organizational Behaviour*, S. Chand
4. P.L. Rao-International Human Resource
5. Ivancevich; John and Micheol T. Matheson: Organizational Behaviour and Management, Business Publication Inc., Texas.
6. Koontz, Harold, Cyril O'Donnell, and Heinz Weihrich: Essentials of management, Tata McGraw-Hill, New Delhi.
7. Luthans, Fred: Organizational Behaviour, McGraw-Hill, New York.

Information Technology in Business Management-I

1. Information Technology for Management, 6TH ED (With CD)
By Efraim Turban, Dorothy Leidner, Ephraim Mclean, James Wetherbe (Ch1, Ch2)
2. Microsoft Office Professional 2013 Step by Step
By Beth Melton, Mark Dodge, Echo Swinford, Andrew Couch
3. Tata McGraw Hill Joseph, P.T. : E-commerce An Indian Perspective (Ch-13,Ch-14)
4. Computer Viruses and Related Threats: A Management Guide (Ch-2, Ch-3) By John P. Wack, Lisa J. Carnahan
(E-Book :
<https://play.google.com/books/reader?id=tsP15h9gr8MC&printsec=frontcover&output=reader&hl=en&pg=GBS.PR7.w.2.1.0>)
5. Electronic Commerce - Technologies & Applications.
Bharat, Bhaskar
<https://play.google.com/books/reader?id=F1zbUaBtk7IC&printsec=frontcover&output=reader&hl=en&pg=GBS.PP1>

Foundation Course –III- Environmental Management

1. Environment Management , N.K. Uberoi , Excel Books, Delhi
2. Environmental Management - Text & Cases, Bala Krishnamoorthy, Prentice Hall of India
3. Environmental Management- National and global Perspectives, Swapan C. Deb , JAICO
4. Environmental Management , Dr.Anand S. Bal , Himalaya Publishing House
5. Environmental Priorities in India , Khoshoo , Environmental Society (N.Delhi)

Business Planning & Entrepreneurial Management

1. Dynamics of Entrepreneurial Development Management - Vasant Desai, Himalaya Publishing House.
2. Entrepreneurial Development - S.S. Khanna
3. Entrepreneurship & Small Business Management - CL Bansal, Haranand Publication
4. Entrepreneurial Development in India - Sami Uddin, Mittal Publication
5. Entrepreneur Vs Entrepreneurship- Human Diagno

Accounting for Managerial Decisions

1. Srivastava R M, *Essentials of Business Finance*, Himalaya Publications
2. Anthony R N and Reece JS. *Accounting Principles*, Hoomwood Illinos , Richard D. Irvin
3. Bhattacharya SK and Dearden J. - *Accounting for Management. Text and Cases* , New Delhi.
4. Hingorani NL and ramanthan AR - *Management Accounting* , New Delhi
5. Ravi M. Kishore , *Advanced management Accounting* , Taxmann , NewDelhi
6. Maheshwari SN - *Management and Cost Accounting* , Sultan Chand , New Delhi
7. Gupta , SP - *Management Accounting* , Sahitya Bhawan , Agra .

Strategic Management

1. Kazmi Azhar, *Business Policy & Strategic Management*, Tata McGraw Hill.
2. P.K. Ghosh : *Business Policy , Strategy , Planning and Management*
3. Christensen , Andrews Dower: *Business Policy- Text and Cases*
4. William F. Gkycj : *Business Policy – Strategy Formation and Management Action*
5. Bongee and Colonan : *Concept of Corporate Strategy*.

**Revised Syllabus of Courses of Bachelor of Management Studies (BMS)
Programme at Semester IV
with effect from the Academic Year 2017-2018**

Reference Books

Reference Books

Financial Institutions & Markets

1. M. Bhole, Financial Institutions and Markets, TATA McGraw Hill
2. V. A. Avadhani, Marketing of Financial Services, Himalaya Publishers, Mumbai
3. Vasant Desai, Indian Financial Systems, Himalaya Publishers
4. Gordon and Natarajan, Financial Services, Himalaya Publishers
5. Meir Khan, Financial Institutions and Markets, Oxford Press
6. Financial Markets and Institutions-Dr. S. Gurusamy, Tata McGraw Hill.
7. The Indian Financial System-Dr. Bharti Pathak, Pearson.
8. Indian Financial System-M.Y.Khan, Mc.Graw Hill
9. Machiraju, H.R., Indian Financial System, Vikas Publications

Auditing

1. CA Surbhi Bansal – Audit and Assurance
2. Taxmann – Auditing
3. Dr.SMeenakumari – Fundamentals of Auditing
4. Baldev Sachdeva&Jagwant Singh Pardeep Kumar – Auditing theory & Practice.

Strategic Cost Management

1. Dr. Girish Jakhotiya-Strategic Financial Management
2. Lall, B.M. and Jain, I.C. – Cost Accounting: Principles and Practice, Prentice Hall, Delhi
3. Welsch, Glenn A., Ronald W. Hilton and Paul N. Gordan – Budgeting, Profit and Control, Prentice Hall, Del
4. John K Shank & Vijay Govindaraja, Strategic Cost Management - The new tool for Competitive Advantage, Free Press

Corporate Restructuring

1. Ramanujam : Mergers et al, LexisNexis Butterworths Wadhwa Nagpur
2. Ray : Mergers and Acquisitions Strategy, Valuation and Integration, PH
3. Advanced Accounts Shukla and Grewal S. Chand and Co. (P) Ltd., New Delhi
4. Advanced accountancy R.L. Gupta and M. Radhaswamy S. Chand and Co. (P) Ltd., New Delhi

Integrated Marketing Communication

1. Belch, Michael, Belch, George "Advertising and Promotion: An integrated marketing communications perspective" Tata Mcgraw Hill 2010
2. Clow ,Kenneth E ;Baack, Donald E "Integrated Advertising Promotion and Marketing Communication",Pearson Edu 2014
3. Duncan, Tom, "Principles of Advertising and IMC", Tata Mcgraw Hill Pub 2006
4. Shah, Kruti ;D'Souza, Allan, "Advertising and IMC", Tata Mcgraw Hill 2014
5. Shimp, Terence, "Advertising and promotion :An IMC Approach", Cengage Learning 2007
6. Dutta, Kirti, "Integrated Marketing Communication" Oxford University Press ,2016
7. Gopalakrishnan, P S , "Integrated Marketing Communication: Concepts and Cases", ICFAI University Press, 2008

Rural Marketing

1. Badi & Badi : Rural Marketing
2. Mamoria, C.B. & Badri Vishal : Agriculture problems in India
3. Arora, R.C. : Integrated Rural Development
4. Rajgopal : Managing Rural Business
5. Gopaldaswamy, T.P. : Rural Marketing

Event Marketing

1. Preston C.A., "Event Marketing: How to successfully promote Events, Festivals, Conventions, and Expositions", Wiley, Second Edition, 2015
2. Gaur Sanjaya Singh and Sanjay V Saggere, "Event Marketing and Management", Vikas Publishing House Pvt. Ltd. , 2003
3. Sharma Diwakar, "Event Planning & Management", Deep and Deep Publications Pvt. Ltd., 2005
4. Hoyle Leonard H., "Event Marketing-How to successfully Promote Events, Festivals, Conventions and Expositions", Wiley, 2009
5. Genadinik Alex, "Event Planning-Management and Marketing for Successful Events", CreateSpace Independent Publishing Platform, 2015
6. Harichandan C.P., "Event Management", Global Vision Publishing House, 2010
7. Goyal K. Swarup, "Event Management", Adhyayan Publishers, 2013

Tourism Marketing

1. S.M.Jha, Tourism Marketing, Himalaya Publishing House, Second Edition, 2011
2. Prasanna Kumar, Marketing of Hospitality and Tourism Services, Tata McGraw Hill, 2010
3. Kshitiz Sharma, Introduction to Tourism Management, McGraw Hill Education (India) Pvt. Ltd, 2014
4. Sunil Kabia, , Tourism and the developing countries, Mohit Publications, First edition, 2005
5. M.V.Kulkarni, Tourism marketing, Everest Publishing House, First edition, 2005
6. Alan A. Lew, A companion to tourism, Blackwell Publishing
7. Krishnan K Kamra, Tourism: An Overview

Human Resource Planning and Information System

1. Bhattacharya D.K, Human Resource Planning, Excel Books.
2. John Bramham, Human Resource Planning, University Press.
3. Michael Armstrong, A Handbook Of Human Resource Management Practice, Kogan Page.
4. William J.Rothwell & H.C. Kazanaas, Planning & Managing Human Resources, Jaico Publishing House .
5. Arun Sekhri, Human Resource Planning And Audit, Himalaya Publishing House.
6. Michael J. Kavanag, Human Resource Information Systems Basics, Applications and Future Directions, Sage Publication.

Training & Development in HRM

1. Brinkerhoff, Robert, .Achieving Results from Training How to evaluate HRD to Strengthen programs and Increase impact. 1987, Jossey bass, San Francisco.
2. Craig, Robert L. Training and Development Handbook. , 3rd ed. 1987. McGraw Hill, New York
3. Employee Training And Development - Raymond Noe
4. Every Trainers Handbook- Devendra Agochia
5. 360 Degree Feedback, Competency Mapping And Assessment Centre- Radha Sharma
6. Training And Development- S.K. Bhatia.

Change Management

1. Organisational Development by French and Bell
2. An experiential approach to O.D. by Harvey and Brown
3. Consultants and Consulting Styles by Dharani Sinha P.
4. Kavita Singh- Organization change
5. S.K. Bhatia- Organisational Change-
6. K.Ashwathapa- Management & OB, HRM.
7. Radha Sharma- Training & Development.

Conflict & Negotiation

1. Lewicki, Saunders & Barry - Negotiation (Tata Mc Graw Hill, 5th Ed.)
2. B. D. Singh - Negotiation Made Simple (Excel Books, 1st Ed.)

Information Technology in Business Management-II

1. Information Technology for Management, 6TH ED (With CD)
By Efraim Turban, Dorothy Leidner, Ephraim Mclean, James Wetherbe (Ch1, Ch2)
2. Microsoft Office Professional 2013 Step by Step
By Beth Melton, Mark Dodge, Echo Swinford, Andrew Couch
3. Tata McGraw Hill Joseph, P.T. : E-commerce An Indian Perspective (Ch-13,Ch-14)
4. Computer Viruses and Related Threats: A Management Guide (Ch-2, Ch-3) By John P. Wack, Lisa J. Carnahan
5. (E-Book :
<https://play.google.com/books/reader?id=tsP15h9gr8MC&printsec=frontcover&output=reader&hl=en&pg=GBS.PR7.w.2.1.0>)
6. Electronic Commerce - Technologies & Applications.
Bharat, Bhaskar
7. <https://play.google.com/books/reader?id=F1zbUaBtk7IC&printsec=frontcover&output=reader&hl=en&pg=GBS.PP1>

Foundation Course –IV- Ethics & Governance

1. Laura P. Hartman, Joe DesJardins, Business Ethics, Mcgraw Hill, 2nd Edition
2. C. Fernando, Business Ethics – An Indian Perspective, Pearson, 2010
3. Joseph DesJardins, An Introduction to Business Ethics, Tata McGraw Hill, 2nd Edition
4. Richard T DeGeorge, Business Ethics, Pearson, 7th Edition
5. Dr.A.K. Gavai, Business Ethics, Himalaya Publishing House, 2008
6. S.K. Mandal, Ethics is Business and Corporate Governance, McGraw Hill, 2010
7. Laura Pincus Hartman, Perspectives in Business Ethics, McGraw Hill International Editions, 1998

Business Research Methods

1. Research for Marketing Decisions Paul E. Green, Donald S. Tull
2. Marketing Research- Text and Cases Harper W. Boyd Jr. , Ralph Westfall.
3. Research methodology in Social sciences, O.R.Krishnaswamy, Himalaya Publication
4. Business Research Methods, Donald R Cooper, Pamela Schindler, Tata McGraw Hill
5. Marketing research and applied orientation, Naresh K Malhotra, Pearson
6. Statistics for management, Levin and Reuben, Prentice Hall.
7. Research Methods for Management: S Shajahan, Jaico Publishing

Production & Total Quality Management

1. Production and Operations Management: R. Paneerselvam
2. Production (Operations) Management: L.C. Jhamb
3. K. Ashwathappa and K .Shridhar Bhatt ; Production and Operations management
4. Productivity Management: Concepts and Techniques, Sawhney S.C., Tata McGraw Hill
5. Srinivas Gondhalekar and Uday Salunkhe, "Productivity Techniques", Himalaya Publishing House
6. Gerard Leone and Richard D. Rahn, "Productivity Techniques", Jaico Book House
7. John S. Oakland, "TQM: Text with Cases", Butterworth-Heinemann
8. David J. Sumanth, "Total Productivity Management (TPmgt): A systematic and quantitative approach to compete in quality, price and time", St. Lucie Press

**Revised Syllabus of Courses of Bachelor of Management Studies (BMS)
Programme at Semester III and IV
with effect from the Academic Year 2017-2018**

Scheme of Evaluation

The performance of the learners will be evaluated in two Components. One component will be the Internal Assessment component carrying 25% marks and the second component will be the Semester-wise End Examination component carrying 75% marks. The allocation of marks for the Internal Assessment and Semester End Examinations will be as shown below:-

A) Internal Assessment: 25 %

Question Paper Pattern

(Internal Assessment- Courses without Practical Courses)

Sr. No.	Particular	Marks
1	One class test (20 Marks)	
	Match the Column/ Fill in the Blanks/ Multiple Choice Questions <i>(½ Mark each)</i>	05 Marks
	Answer in One or Two Lines (Concept based Questions) <i>(01 Mark each)</i>	05 Marks
	Answer in Brief (Attempt Any Two of the Three) <i>(05 Marks each)</i>	10 Marks
2	Active participation in routine class instructional deliveries and overall conduct as a responsible learner, mannerism and articulation and exhibit of leadership qualities in organizing related academic activities	05 Marks

Question Paper Pattern

(Internal Assessment- Courses with Practical Courses)

Sr. No.	Particular	Marks
1	Semester End Practical Examination (20 Marks)	
	Journal	05 Marks
	Viva	05 Marks
	Laboratory Work	10 Marks
2	Active participation in routine class instructional deliveries and overall conduct as a responsible learner, mannerism and articulation and exhibit of leadership qualities in organizing related academic activities articulation and exhibit of leadership qualities in organizing related academic activities	05 Marks

B) Semester End Examination: 75 %

- i) Duration: The examination shall be of 2 ½ Hours duration
- ii) Theory question paper pattern
 - There shall be five questions each of 15 marks.
 - All questions shall be compulsory with internal choice within the questions.
 - Question may be subdivided into sub-questions a, b, c... and the allocation of marks depends on the weightage of the topic.

(Detail question paper pattern has been given separately)

Passing Standard

The learners to pass a course shall have to obtain a minimum of 40% marks in aggregate for each course where the course consists of Internal Assessment and Semester End Examination. The learners shall obtain minimum of 40% marks (i.e. 10 out of 25) in the Internal Assessment and 40% marks in Semester End Examination (i.e. 30 Out of 75) separately, to pass the course and minimum of Grade E to pass a particular semester A learner will be said to have passed the course if the learner passes the Internal Assessment and Semester End Examination together.

Question Paper Pattern (Practical Courses)

Maximum Marks: 75

Questions to be set: 05

Duration: 2 ½ Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Objective Questions A) Sub Questions to be asked 10 and to be answered any 08 B) Sub Questions to be asked 10 and to be answered any 07 (*Multiple choice / True or False / Match the columns/Fill in the blanks)	15 Marks
Q-2	Full Length Practical Question OR	15 Marks
Q-2	Full Length Practical Question	15 Marks
Q-3	Full Length Practical Question OR	15 Marks
Q-3	Full Length Practical Question	15 Marks
Q-4	Full Length Practical Question OR	15 Marks
Q-4	Full Length Practical Question	15 Marks
Q-5	A) Theory questions B) Theory questions OR	08 Marks 07 Marks
Q-5	Short Notes To be asked 05 To be answered 03	15 Marks

Note:

Practical question of 15 marks may be divided into two sub questions of 7/8 and 10/5 Marks. If the topic demands, instead of practical questions, appropriate theory question may be asked.

Question Paper Pattern (Theoretical Courses)

Maximum Marks: 75

Questions to be set: 05

Duration: 2 ½ Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Objective Questions A) Sub Questions to be asked 10 and to be answered any 08 B) Sub Questions to be asked 10 and to be answered any 07 (*Multiple choice / True or False / Match the columns/Fill in the blanks)	15 Marks
Q-2	Full Length Question OR	15 Marks
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question OR	15 Marks
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question OR	15 Marks
Q-4	Full Length Question	15 Marks
Q-5	A) Theory questions B) Theory questions OR	08 Marks 07 Marks
Q-5	Short Notes To be asked 05 To be answered 03	15 Marks

Note:

Theory question of 15 marks may be divided into two sub questions of 7/8 and 10/5 Marks.

UNIVERSITY OF MUMBAI

No. UG/91 of 2018-19

CIRCULAR:-

Attention of the Principals of the affiliated Colleges and Directors of the recognized Institutions in Commerce & Management Faculty is invited to this office Circular No. UG/28 of 2015, dated 22nd July, 2015 relating to syllabus of Bachelor of Commerce (Accounting and Finance) degree programme.

Their attention is also invited to University Circular No. UG/106 of 2016-17 dated 25th October, 2016 for F.Y.B.Com. (Accounting & Finance) Sem. I & II and University Circular No. UG/166 of 2017-18 dated 8th August, 2017 for S.Y.B.Com. (Accounting & Finance) Sem. III & IV respectively.

They are hereby informed that the recommendations made by the Board of Studies in Accountancy at its meeting held on 28th February, 2018 have been accepted by the Academic Council at its meeting held on 5th May, 2018 vide item No. 4.42 and that in accordance therewith, the revised syllabus as per the (CBCS) for the T.Y.B.Com. in Accountancy (Accounting and Finance) (Sem. V & VI), has been brought into force with effect from the academic year 2018-19, accordingly. (The same is available on the University's website www.mu.ac.in).

MUMBAI - 400 032

27th July, 2018

To

The Principals of the affiliated Colleges and Directors of the recognized Institutions in Commerce & Management Faculty. (Circular No. UG/334 of 2017-18 dated 9th January, 2018.)

A.C./4.42/05/05/2018

No. UG/ 91 -A of 2018

MUMBAI-400 032

27th July, 2018

Copy forwarded with Compliments for information to:-

- 1) The I/c Dean, Faculty of Commerce & Management,
- 2) The Director, Board of Examinations and Evaluation,
- 3) The Director, Board of Students Development,
- 4) The Professor-cum-Director, Institute of Distance and Open Learning (IDOL),
- 5) The Co-Ordinator, University Computerization Centre,


(Dr. Dinesh Kamble)
I/c REGISTRAR

University of Mumbai



**Revised Syllabus
and
Question Paper Pattern
of Courses of
B.Com. (Accounting and Finance)
Programme at
Third Year
*Semester V and VI***

**Under Choice Based Credit, Grading and
Semester System**

***(To be implemented from Academic Year 2018-2019)
Board of Studies-in-Accountancy***

B.Com. (Accounting and Finance) Programme

Under Choice Based Credit, Grading and Semester System

T.Y.B.Com. (Accounting and Finance)

(To be implemented from Academic Year 2018-2019)

No. of Courses	Semester V	Credits	No. of Courses	Semester VI	Credits
1	Elective Courses (EC)		1	Elective Courses (EC)	
1,2,3 &4	*Any four courses from the following list of the courses	12	1,2,3 &4	**Any four courses from the following list of the courses	12
2	Core Courses (CC)		2	Core Courses (CC)	
5	Financial Accounting - V	04	5	Financial Accounting - VII	04
6	Financial Accounting - VI	04	6	Project Work-II	04
Total Credits		20	Total Credits		20

✓ **Note:** Project work is considered as a special course involving application of knowledge in solving/analyzing/exploring a real life situation/ difficult problem. Project work would be of 04 credits each. A project work may be undertaken in any area of Elective Courses/ Study Area

*List of Elective Courses for Semester V (Any Four)		**List of Elective Courses for Semester VI (Any Four)	
01	Cost Accounting - III	01	Cost Accounting - IV
02	Financial Management - II	02	Financial Management - III
03	Taxation - IV (Indirect Taxes - II)	03	Taxation - V (Indirect Taxes- III)
04	International Finance	04	Security Analysis and Portfolio Management
05	Financial Analysis and Business Valuation	05	Management Control Systems
06	Management -II (Management Applications)	06	Economics Paper – III (Indian Economy)
Note: Course selected in Semester V will continue in Semester VI			

B.Com. (Accounting and Finance) Programme
Under Choice Based Credit, Grading and Semester System
Course Structure

(To be implemented from Academic Year 2018-2019)

Semester V

No. of Courses	Semester V	Credits
1	<i>Elective Courses (EC)</i>	
1,2,3 & 4	*Any four courses from the following list of the courses	12
2	<i>Core Courses (CC)</i>	
5	Financial Accounting - V	04
6	Financial Accounting - VI	04
Total Credits		20

<i>*List of Elective Courses for Semester V (Any Four)</i>	
01	Cost Accounting - III
02	Financial Management - II
03	Taxation - IV (Indirect Taxes - II)
04	International Finance
05	Financial Analysis and Business Valuation Management
06	Management -II (Management Applications)I

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
Programme at Semester V
with effect from the Academic Year 2018-2019**

1. Elective Courses (EC)

1. Cost Accounting – III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Uniform Costing and Inter-Firm Comparison	05
02	Integrated System and Non Integrated System of Accounts	15
03	Operating Costing	10
04	Process Costing- Equivalent Units of Production and Inter-process Profit	15
05	Activity Based Costing System	15
	Total	60

Sr. No.	Modules / Units
1	Uniform Costing and Inter –Firm Comparison
	<p>Uniform costing Meaning of and need for Uniform costing Essentials for success of Uniform costing Advantages and limitations of Uniform costing Areas of Uniformity, Uniform cost manual</p> <p>Inter Firm Comparison Pre-requisites of inter firm comparison; Advantages and limitations Practical problems</p>
2	Integrated System and Non- integrated System of Accounts
	<p>Integrated System Meaning; Features, Advantages and Disadvantages Journal Entries and Preparing Integrated Ledgers. Practical problems</p> <p>Non-Integrated system Meaning; Features, Advantages and disadvantages Journal entries and Preparing Cost Control Accounts Practical problems</p>
3	Operating Costing
	<p>Meaning of operating costing; Determination of per unit cost ; Pricing of services Collection of costing data Note-Practical problems based on costing of hospitals, hotels, goods and passengers transport service</p>
4	Process Costing – Equivalent units of Production and Inter Process Profit
	<p>Valuation of Work in progress and Equivalent production (FIFO Method and Weighted Average Method)) Inter Process transfer at Profit Practical problems</p>
5	Activity Based Costing System
	<p>Activity Based Costing – Introduction, Advantages, Limitations, Identification of cost drivers, Practical Problems on Traditional V/s Activity Based Costing System.</p>

Revised Syllabus of Courses of B.Com. (Accounting and Finance)
Programme at Semester V
with effect from the Academic Year 2018-2019

1. Elective Courses (EC)

2. Financial Management -II

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Strategic Financial Management	05
02	Capital Budgeting – Project Planning & Risk Analysis	15
03	Capital Structure Theories and Dividend Decisions	15
04	Mutual Fund and Bond Valuation	15
05	Credit Management	10
Total		60

Sr. No.	Modules / Units
1	Strategic Financial Management
	Strategic Financial Management – Need and Importance Corporate, Business and Functional Strategy Financial Planning - Need and Importance Profit Maximization Wealth Maximization Interface of Financial Policy and Strategic Management Relationship of Finance to Economics and Accounting Role of Financial Manager
2	Capital Budgeting – Project Planning & Risk Analysis
	Introduction - Capital Budgeting Process, Project Classification and Investment Criteria. Techniques of Capital Budgeting - NPV, Benefit Cost Ratio, Internal Rate of Return, Modified Internal Rate of Return, Payback period, Discounted Payback Period and ARR. (Inclusive of Estimation of Project Cash Flows) Capital Rationing – Meaning, Need and Dealing with Capital Rationing Problems Risk Analysis in Capital Budgeting – Sources and Perspectives of Risk, Sensitivity Analysis, Scenario Analysis, Simulation Model, Decision Tree Analysis and Break - Even Analysis.
3	Capital Structure Theories and Dividend Decisions
	Capital Structure Theories – Background, Assumptions, Definitions and Taxation and Capital Structure Types – Net Operating Income, Net Operating Income Approach, Traditional Position, Modigliani and Miller Approach, Trade off Theory and Signalling Theory. Dividend Decisions- Need, Importance, Formulation, Legal and Procedural Aspects. Dividend Decision Models - Walter, Gordon, Graham & Dodd Model and M-M Model
4	Mutual Fund and Bond Valuation
	Introduction to Mutual Fund- History & Origin, Definition, Meaning, Characteristics, Advantages, Disadvantages, Limitations of Mutual Funds, Ethics in Mutual Fund. Entities involved – Sponsor, Trust, Trustee, Asset Management Company, Registrar and Transfer Agent (RTA) and Fund Houses in India. Classification of Mutual Fund - Functional/Operational – Open ended, close ended, Interval, Portfolio – Income, Growth, Balanced, MMMF, Geographical/ Location – Domestic and Offshore, Tax Saving Funds, Exchange Traded Funds , Balance Funds , Fixed Term Plan Debt Funds and SIP. Calculations of NAV, Entry Load and Exit Load. Bond Valuation - Meaning, Measuring Bond Returns – Yield to Maturity, Yield to call and Bond Pricing. Bond Pricing Theorems, Bond Risks and Bond Duration. (Practical Problems on YTM and Bond Duration.)
5	Credit Management
	Credit Management – Terms of Payment, Credit Policy Variables, Credit Evaluation, Credit Granting Decision, Control of Accounts Receivables ie Receivables Management, Ageing Schedule and Credit Management in India

Revised Syllabus of Courses of B.Com. (Accounting and Finance)
Programme at Semester V
with effect from the Academic Year 2018-2019

1. Elective Courses (EC)

3. Taxation – IV (Indirect Taxes – II)

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Introduction to Indirect Taxation and GST	10
02	Levy and Collection of GST	08
03	Concept of Supply	08
04	Documentation	08
05	Input Tax Credit and Computation of GST	20
06	Registration	06
Total		60

Sr. No.	Modules / Units
1	Introduction to Indirect Taxation and GST
	<p>Basics for Taxation - Direct Taxes and Indirect Taxes – Features of Indirect taxes, Difference, Advantages and Disadvantages, Sources and Authority of Taxes in India (Art 246 of the Indian Constitution)</p> <p>Introduction to GST – Genesis of GST in India, Power to tax GST (Constitutional Provisions), Extent and Commencement, Meaning and Definition of GST, Benefits of GST, Conceptual Framework – CGST, IGST,SGST,UTGST, Imports of goods or services or both, Export of goods or services or both, Taxes subsumed and not subsumed under GST.</p> <p>GST Council and GST Network</p> <p>Definitions under CGST Act</p>
2	Levy and Collection of GST
	Charge of GST, Levy and Collection GST, Composite and Mixed Supplies under GST, Power to Grant Exemption, Negative list of GST, GST Rate Schedule for Goods and Services
3	Concept of Supply
	Taxable Event Supply Place of Supply Time of Supply Value of Supply
4	Documentation
	Tax Invoices, Credit and Debit notes
5	Input Tax Credit and Computation of GST
	Eligibility and conditions for taking Input Tax Credit Apportionment of credit & Blocked credits Credit in special circumstances Computation of GST under Inter State supplies and Intra State Supplies
6	Registration
	Registration – Persons liable for Registration, Persons not liable for Registration, Procedure for Registration, Deemed Registration,, Amendment, Cancellation and Revocation of Registration.

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
Programme at Semester V
with effect from the Academic Year 2018-2019**

1. Elective Courses (EC)

4. International Finance

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Derivatives – Futures	15
02	Derivatives – Options	15
03	Foreign Exchange Markets and Dealings	15
04	Foreign Exchange Exposure and Risk Management	15
	Total	60

Sr. No.	Modules / Units
1	Derivatives – Futures
	Derivatives – Need and Importance, Major Players in Derivative Markets, Features of Forward Contracts, Features of Future Contract, Forward V/s Future, Theoretical Future Price, Pricing Index Futures, Initial Margin and Maintenance Margin, Marking to Market and Variation Margin.
2	Derivatives – Options
	Options- Long Call, Short Call, Long Put, Short Put, Options V/s Futures, Writer of an Option, At the Money, In the Money and Out of The Money Options. Intrinsic and Time Value, Option Spreads and Strategies, Put Call Parity Theorem.
3	Foreign Exchange Markets and Dealings
	Introduction – Participants of Foreign Exchange Markets, Characteristics of Foreign Exchange Market, Major Foreign Currencies that Trade Worldwide, Foreign Currency Accounts – Nostro, Vostro and Loro (Cash Position and Currency position) Terms in Forex Market – Direct Quote and Indirect Quote, Bid, Ask and Spread, American terms, European terms, Spot, Tom, Cash and Forward Rates, Appreciation and Depreciation of currency, Premium and Discount, Swap Points, and Cross Rates.
4	Foreign Exchange Exposure and Risk Management
	Exchange Rate Determination Theories – The theory of Purchasing Power Parity, The Fischer effect, The International Fischer Effect and The Theory of Interest Rate Parity. Calculation of Forward Rate and Future Spot Rate. Arbitrage in Foreign Exchange Market – Covered and Uncovered Interest Arbitrage. Foreign Exchange Risk - Introduction, Types of Exposures and Strategies for Exposure Management. Hedging Transaction Exposure, Hedging Techniques, Money Market Hedge, Forward Hedge and Hedging of Futures & Options

Revised Syllabus of Courses of B.Com. (Accounting and Finance)
Programme at Semester V
with effect from the Academic Year 2018-2019

1. Elective Courses (EC)

5. Financial Analysis and Business Valuation

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Financial Modeling for Project Appraisal	05
02	Financial Analysis	15
03	Growth Analysis and Sustainable Earning	10
04	Basics of Valuation	06
05	Valuation Models	12
06	Valuation of Assets and Liabilities	12
Total		60

Sr. No.	Modules / Units
1	Financial Modeling for Project Appraisal
	Financial Modeling – concepts and application Financial statements module area Use of functions -NPV and IRR Forecasting Techniques
2	Financial Analysis
	Financial Analysis, Financial Statement Analysis, Analysis of Balance Sheet Analysis of Income Statement Analysis of Statement of Shareholder Equity Analysis of Cash flow Statement Analysis of Profitability
3	Growth Analysis and Sustainable Earning
	Concept of Growth Analysis Analysis of changes in profitability and sustainable earnings Evaluation of P/B ratios and P/E ratios
4	Basics of Valuation
	Introduction to valuation Value, Distinction between Price and Value Foundation of Business Valuation Purpose of business valuation Valuation Bias Uncertainties in Business Valuation Role of valuation in business acquisition, legal and tax purposes, efficient market hypothesis
5	Valuation Models
	Introduction to valuation models: asset based approach, Income based approach, market based approach Discounted cash flow valuation Relative valuation Free Cash Flow valuation
6	Valuation of Assets and Liabilities
	Valuation of Fixed Assets, Valuation of Inventories and Valuation of Investment Valuation of Shares Valuation of Goodwill, Patents, Copyrights, Brands, Real Estate Valuation of Liabilities

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
Programme at Semester V
with effect from the Academic Year 2018-2019**

1. Elective Courses (EC)

6. Management- II (Management Applications)

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Marketing Management	15
02	Production Management	15
03	Human Resource Management	15
04	Financial Management	15
Total		60

Sr. No.	Modules / Units
1	Marketing Management
	Meaning and Definition of Marketing – 4 Ps of Marketing, Importance Product Management – Meaning & Definition – Product Development Strategies, Product life cycle, Branding- Meaning, Factors influencing branding Price Management – Meaning and Definition – Factors affecting pricing decisions, Pricing Strategies Place (Distribution) Management – Meaning and Definition – Factors Governing Distribution Decisions – Types of Distribution Channels Promotion Management – Meaning – Promotion Strategies, Integrated marketing communication Case studies based on the above topics
2	Production Management
	Meaning and Definition of Production Management – Scope of Production Management, Steps in Production Planning and Control Meaning of Productivity - Measurement of Productivity – Measure to increase Productivity – Productivity Movement in India Meaning and Definition of Quality Management – TQM – Quality Circles – ISO 9000/14000 Inventory Management – Meaning and Methods Case studies based on the above topics
3	Human Resource Management
	Human Resource Management – Meaning, Nature, Functions of Human Resource Management Human Resource Planning- Meaning, Process of Human Resource Planning Human Resource Development- Methods of Developing Human Resource Performance Appraisal – Meaning and Definition – Traditional and Modern Methods of Appraisal Employee retention Leadership- Traits, Styles Motivation- Factors of Motivation, Theories of Motivation- Maslow’s Theory, Douglas MacGregor’s Theory X and Theory Y Case studies based on the above topics
4	Financial Management
	Meaning and Definition of Financial Management – Functions of Financial Management Capital Budgeting- Introduction, Importance and Process Capital Structure- Meaning, Factors affecting Capital Structure Capital Market – Meaning and Constituents – Functions Fundamental Analysis – Technical Analysis - Venture Capital – DEMAT Account - Futures and Options Case studies based on the above topics

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
Programme at Semester V
with effect from the Academic Year 2018-2019**

2. Core Courses (CC)

1. Financial Accounting - V

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Underwriting of shares & debentures	08
02	Buy-Back of shares	10
03	AS – 14 - Amalgamation, Absorption & External Reconstruction (excluding inter – company holding)	15
04	Internal Reconstruction	15
05	Liquidation of Companies	10
	Total	60

Sr. No.	Modules / Units
1	Underwriting of shares & debentures
	Introduction, Underwriting, Underwriting Commission Provision of Companies Act with respect to Payment of underwriting commission Underwriters, Sub-Underwriters, Brokers and Manager to issues Types of underwriting, Abatement Clause Marked, Unmarked and Firm-underwriting applications, Liability of the underwriters in respect of underwriting contract Practical problems
2	Buy Back of Shares
	Company Law / Legal provisions (including related restrictions, power, transfer to capital redemption reserve account and prohibitions). Compliance of conditions including sources, maximum limits and debt equity ratio. Cancellation of Shares Bought back(Excluding Buy Back of minority shareholding) Practical problems
3	AS – 14 - Amalgamation, Absorption & External Reconstruction (excluding inter-company holdings)
	In the nature of merger and purchase with corresponding accounting treatments of pooling of interests and purchase method respectively. Meaning and Computation of purchase consideration. Problems based on purchase method only. Practical problems
4	Internal Reconstruction
	Need for reconstruction and company law provisions. Distinction between internal and external reconstruction. Methods including alteration of share capital, variation of shareholder rights, sub division, consolidation, surrender and reissue / cancellation, reduction of share capital with relevant legal provisions and accounting treatment for same. Practical problems
5	Liquidation of Companies
	Meaning of liquidation or winding up Preferential payments Overriding preferential payments Preparation of statement of affairs, deficit / surplus account Liquidator's final statement of account Practical problems

Revised Syllabus of Courses of B.Com. (Accounting and Finance)
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2. Core Courses (CC)

2. Financial Accounting – VI

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Final Accounts of Banking Company	15
02	Final Accounts of Insurance Company (Excl. Life Insurance)	15
03	Non – Banking Financial Companies	08
04	Valuation of Goodwill and Shares	12
05	Accounting for Limited Liability Partnership	10
Total		60

Sr. No.	Modules / Units
1	Final Accounts of Banking Company
	<p>Legal provision in Banking Regulation Act, 1949 relating to Accounts. Statutory reserves including Cash Reserve and Statutory Liquidity Ratio. Bill purchase and discounted, rebate of bill discounted. Final Accounts in prescribed form Non – performing assets and Income from non – performing assets. Capital Adequacy Classification of Advances, standard, sub – standard, doubtful and provisioning requirement.</p>
2	Final Accounts of Insurance Company (Excl. Life Insurance)
	<p>General Insurance – Various types of insurance, like fire, marine, Miscellaneous, Special terms like premium, claims, commission, Management expenses, Reserve for unexpired risk, reinsurance Final Accounts in a prescribed form. Revenue Statement – Form B – RA, Profit / Loss Account – Form B – PL and Balance Sheet Form B – BS.</p>
3	Non – Banking Financial Companies
	<p>Introduction, Definition, Registration and Regulation, Classification, Income Recognition, Accounting of Investment, Applicability of Prudential Norms, Assets classification, Non- performing Assets, Capital Adequacy, Preparation of Financial statement</p>
4	Valuation of Goodwill and Shares
	<p>Valuation of Goodwill Maintainable Profit method, Super Profit Method Capitalization method, Annuity Method Valuation of Shares Intrinsic Value Method, Yield method and Fair Value Method</p>
5	Accounting for Limited Liability Partnership
	<p>Statutory provisions Conversion of partnership business into Limited Liability Partnership Final accounts</p>

**Revised Syllabus of Courses of B.Com.(Accounting and Finance)
Programme at Semester V
with effect from the Academic Year 2018-2019**

Reference Books

Reference Books
Elective Courses (EC)
Cost Accounting- III
<ul style="list-style-type: none"> • <i>Lectures on Costing</i> by Swaminathan: S. Chand and Company (P) Ltd., New Delhi • <i>Cost Accounting</i> by C.S. Rayudu, Tata Mc. Grow Hill and Co. Ltd., Mumbai • <i>Cost Accounting</i> by Jawahar Lal and Seema Srivastava, Tata Mc. Grow Hill and Co. Ltd., Mumbai • <i>Cost Accounting</i> by Ravi M. Kishore, Taxmann Ltd., New Delhi • <i>Principles and Practices of Cost Accounting</i> by N.K. Prasad, Book Syndicate Pvt. Ltd., Calcutta • <i>Cost Accounting Theory and Practice</i> by B.K. Bhar, Tata Mc. Grow Hill and Co. Ltd., Mumbai • <i>Cost Accounting Principles and Practice</i> by M.N. Arora, Vikas Publishing House Pvt. Ltd., New Delhi • <i>Advanced Cost and Management Accounting: Problems and Solutions</i> by V.K. Saxena and C.D. Vashist, S. Chand and Company (P) Ltd., New Delhi • <i>Cost Accounting</i> by S.P. Jain and K.L. Narang, Kalyani Publishers, Ludhiana • <i>Modern Cost and Management Accounting</i> by M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi
Financial Management - II
<ul style="list-style-type: none"> • <i>Fundamentals of Financial Management</i> by D. Chandra Bose, PHI Learning Pvt. Ltd., New Delhi • <i>Fundamentals of Financial Management</i> by Bhabotosh Banerjee, PHI Learning Pvt. Ltd., New Delhi • <i>Fundamentals of Financial Management</i> by Vyuptakesh Sharma, Pearson Education, New Delhi • <i>Fundamentals of Financial Management</i> by J.C. Van Horne, Prentice Hall of India, New Delhi • <i>Financial Management: Text and Problems</i> by M.Y. Khan and P.K. Jain, Tata McGraw Hill, New Delhi • <i>Financial Management: Theory and Practice</i> by Prasanna Chandra, Tata McGraw Hill, New Delhi • <i>Financial Management</i> by I.M. Pandey, Vikas Publishing House, New Delhi • <i>Financial Management</i> by C. Paramasivan & T. Subramanian • <i>Financial Management</i> by IM Pandey • <i>Financial Management</i> by Ravi Kishor • <i>Financial Management</i> by Khan & Jain
Taxation - Indirect Taxes - Paper IV
<ul style="list-style-type: none"> • <i>Indirect Taxes: Law and Practice</i> by V.S. Datey, Taxmann • <i>Indirect Taxes</i> by V.S. Balchandra, Sultan Chand and Sons, New Delhi • <i>GST Law & practice with Customs & FTP</i> by V.S. Datey, Taxmann • <i>GST</i> by V.S. Datey, Taxmann • <i>GST & customs Law</i> by K.M. Bansal, University Edition • <i>GST Law & practice with Customs & FTP</i> by Vineet Sodhani, Snow White Publications • <i>GST Law & practice with Customs & FTP</i> by Sanjiv Agarwal, Snow White Publications • <i>Indirect taxes(Containing GST, Customs & FTP)</i> by MOhd. Rafi, Bharat Publications
International Finance
<ul style="list-style-type: none"> • P G Apte, <i>International Financial Management</i>, 5th Edition, The McGraw Hill • Cheol . S. Eun & Bruce G. Resnick, <i>International Finance Management</i> • Maurice D. Levi, <i>International Finance – Special Indian Edition</i> • Prakash G. Apte, <i>International Finance – A Business Perspective</i> • V A. Aadhani, <i>International Finance</i>

Reference Books

Financial Analysis and Business Valuation

- *Valuation: Measuring and Managing the value of Companies: Thomas Copeland- Wiley*
- *The Handbook of Advance Business Valuation: Rober F Reilly and Robert Swhweish: Mc Graw hill*
- *Business Valuation: Pitabas Mohanty- Taxmann*
- *Valuation- Measuring and Managing the value of Companies : Tim Koller- Mc Kinsey & Co*

Management II (Management Applications)

- *Kotlar, Philip, Marketing Management, Prentice Hall, New Delhi.*
 - *Stanton, Etzel, Walker, Fundamentals of Marketing, Tata-McGraw Hill, New Delhi.*
 - *Saxena, Rajan, Marketing Management, Tata-McGraw Hill, New Delhi.*
 - *McCarthy, E.J., Basic Marketing: A managerial approach, Irwin, New York.*
 - *Pillai R S, Bagavathi, Modern Marketing*
 - *Principles of Management , Ramasamy , Himalya Publication , Mumbai*
 - *Principles of Management , Tripathi Reddy , Tata Mc Grew Hill*
 - *Management Text & Cases , VSP Rao , Excel Books, Delhi*
 - *Management Concepts and OB , P S Rao & N V Shah , AjabPustakalaya*
 - *Essentials of Management , Koontz II & W , Mc. Grew Hill , New York*
- Principles of Management-Text and Cases –Dr..M.SakthivelMurugan, New Age Publications*

Core Courses (CC)

Financial Accounting - V and VI

- *Introduction to Accountancy by T.S. Grewal, S. Chand and Company (P) Ltd., New Delhi*
- *Advance Accounts by Shukla and Grewal, S. Chand and Company (P) Ltd., New Delhi*
- *Advanced Accountancy by R.L Gupta and M. Radhaswamy, S. Chand and Company (P) Ltd., New Delhi*
- *Modern Accountancy by Mukherjee and Hanif, Tata Mc. Grow Hill and Co. Ltd., Mumbai*
- *Financial Accounting by Lesile Chandwichk, Pentice Hall of India Adin Bakley (P) Ltd., New Delhi*
- *Financial Accounting for Management by Dr. Dinesh Harsalekar, Multi-Tech. Publishing Co. Ltd., Mumbai*
- *Financial Accounting by P.C. Tulsian, Pearson Publications, New Delhi*
- *Accounting Principles by R.N. Anthony and J.S. Reece, Richard Irwin, Inc*
- *Financial Accounting by Monga, J.R. Ahuja, Girish Ahuja and Ashok Shehgal, Mayur Paper Back, Noida*
- *Compendium of Statement and Standard of Accounting, ICAI*
- *Indian Accounting Standards, Ashish Bhattacharya, Tata Mc. Grow Hill and Co. Ltd., Mumbai*
- *Financial Accounting by Williams, Tata Mc. Grow Hill and Co. Ltd., Mumbai*
- *Company Accounting Standards by Shrinivasan Anand, Taxman, New Delhi*
- *Financial Accounting by V. Rajasekaran, Pearson Publications, New Delhi*
- *Introduction to Financial Accounting by Horngren, Pearson Publications, New Delhi*
- *Financial Accounting by M. Mukherjee and M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi*
- *Financial Accounting a Managerial Perspective, Varadraj B. Bapat, Mehul Raithatha, Tata McGraw Hill Education Pvt. Ltd., New Delhi*

B.Com. (Accounting and Finance) Programme
Under Choice Based Credit, Grading and Semester System
Course Structure

(To be implemented from Academic Year 2018-2019)

Semester VI

No. of Courses	Semester VI	Credits
1	<i>Elective Courses (EC)</i>	
1,2,3 & 4	**Any four courses from the following list of the courses	12
2	<i>Core Course (CC)</i>	
5	Financial Accounting - VII	04
6	Project Work -II	04
Total Credits		20

**List of Elective Courses for Semester VI (Any Four)	
01	Cost Accounting - IV
02	Financial Management - III
03	Taxation - V (Indirect Taxes- III)
04	Management Control Systems
05	Security Analysis and Portfolio Management
06	Economics Paper – III (Indian Economy)

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Programme at Semester VI
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1. Elective Courses (EC)

1. Cost Accounting - IV

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Budgeting and Budgetary Control	15
02	Absorption Costing and Marginal Costing Cost Volume and Profit Analysis	15
03	Managerial Decision Making	15
04	Standard Costing and Variance Analysis	15
	Total	60

Sr. No.	Modules / Units
1	Budgeting and Budgetary Control
	Meaning & objectives, Advantages and limitations of budgets Functional budgets, fixed and flexible budgets Zero based budgeting, performance budgeting <i>Practical problems of preparing flexible budgets and functional budgets</i>
2	Absorption Costing and Marginal Costing, Cost Volume and Profit Analysis
	Absorption Costing and Marginal Costing Meaning of absorption costing, Introduction to marginal costing Distinction between absorption costing and marginal costing Advantages and limitations of marginal costing Cost Volume and Profit Analysis Break even analysis meaning and graphic presentation Margin of safety Key factor <i>Practical problems based on using the marginal costing formulae and key factor</i>
3	Managerial Decision Making
	Make or buy Sales mix decisions Exploring new markets Plant shut down decision <i>Practical problems</i>
4	Standard Costing and Variance Analysis
	Preliminaries in installing of a standard cost system Material Cost variance Labour cost variance Variable overhead variances Fixed Overhead variances Sales variances Profit variances <i>Practical problems</i>

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
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1. Elective Courses (EC)

2. Financial Management - III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Business Valuation	05
02	Mergers and Acquisitions	15
03	Corporate Restructuring and Takeovers	15
04	Lease and Hire Purchase Financing	15
05	Working Capital financing	10
	Total	60

Sr. No.	Modules / Units
1	Business Valuation
	<p>Conceptual Framework of Valuation – Book Value, Market Value, Economic Value, Liquidation Value, Replacement Value, Salvage Value, Value of Goodwill and Fair Value</p> <p>Approaches of Valuation – Assets Based Approach to Valuation, Earnings Based Approach to Valuation , Earnings Measure on Cash Flow Basis, Market Value Added Approach and Economic Value Added.</p>
2	Mergers and Acquisitions
	<p>Introduction- Basic modes of acquiring another firm, Synergy effects, Difference between Merger and Takeover, Advantages of Mergers and Acquisitions, Benefits of Merger for Acquiring firm, Reasons of companies to offer themselves for sale, Reasons for failure of Mergers and Reverse Merger.</p> <p>Commonly Used Bases for determining the Exchange Ratio – EPS, MPS, Book value and Combination of Measures and Evaluation of Mergers (Practical Problems)</p>
3	Corporate Restructuring and Takeovers
	<p>Introduction – Meaning, Need and Importance, Forms of Restructuring, Advantages and Disadvantages</p> <p>Takeovers – Meaning, SEBI Guidelines, Anti-takeover defences and Asset and Liability Restructuring. (Practical Problems)</p>
4	Lease and Hire Purchase Financing
	<p>Introduction – Meaning and Types of Leases, Rationale, Mechanics, Operating Leases, Leasing as Financing Decisions, Calculation of Cash flows of a finance lease.</p> <p>Hire Purchase – Meaning, Need and Importance, Calculation of Hire Purchase instalments.</p> <p>Choice between Leasing and Hire Purchase</p>
5	Working Capital financing
	<p>Introduction – Key features and Characteristics of Trade Credit, Bank Credit, Commercial Papers, Certificate of Deposits and Factoring.</p> <p>Practical Problems based on Factoring and calculations of yield of CP's and CD's</p>

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1. Elective Courses (EC)

3. Taxation - Paper V (Indirect Taxes – III)

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Payment of Tax and Refunds	08
02	Returns	08
03	Accounts, Audit, Assessment and Records	08
04	Custom Act - I	12
05	Custom Act - II	12
06	Foreign Trade Policy	12
Total		60

Sr. No.	Modules / Units
1	Payment of Tax and Refunds
	Payment of Tax, Interest and other Amounts, Interest on delayed Payment, TDS, TCS Refund of tax, Refund in certain cases, Interest on delayed refunds
2	Returns
	Types of Returns and Provisions relating to filing of Returns
3	Accounts, Audit, Assessment and Records
	Accounts and other records, Period of retention of accounts, Electronic Way Bill Self-Assessment, Provisional Assessment, Scrutiny of Returns, Assessment of non-filers of Returns, Assessment of Unregistered person, summary assessment in certain special cases, Audit by tax authorities, Special Audit.
4	Custom Act - I
	Introduction to customs law including Constitutional aspects Levy of and exemptions from customs duties – All provisions including application of customs law, taxable event, charge of customs duty, exceptions to levy of customs duty, exemption from custom duty Types of customs duties Classification and valuation of imported and export goods
5	Custom Act - II
	Import and Export Procedures – All import and export procedures including special procedures relating to baggage, goods imported or exported by post, stores Provisions relating to coastal goods and vessels carrying coastal goods Warehousing and Drawback
6	Foreign Trade Policy
	Introduction to FTP – legislation governing FTP, salient features of an FTP, Foreign Trade Policy 2015- 20, administration of FTP, contents of FTP, scope of FTP. Provision related to import and export of goods Basic concepts relating to export promotion schemes provided under FTP – Duty Exemption & remission Schemes, Duty Free Import Authorization Scheme, Reward scheme, Export Promotion Capital Goods Scheme, EOU, STP, BTP AND EHTP scheme.

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
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1. Elective Courses (EC)

4. Security Analysis and Portfolio Management

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Portfolio Management – An Introduction & Process	12
02	Portfolio Management – Valuation	12
03	Fundamental Analysis	12
04	Technical Analysis	12
05	Efficient Market Theory & CAPM	12
	Total	60

Sr. No.	Modules / Units
1	Portfolio Management – An Introduction & Process
	<p>Investment - Meaning, Characteristics, Objectives, Investment V/s Speculation, Investment V/s Gambling and Types of Investors</p> <p>Portfolio Management – Meaning, Evolution, Phases, Role of Portfolio Managers, Advantages of Portfolio Management.</p> <p>Investment Environment in India and factors conducive for investment in India.</p> <p>Portfolio Analysis – Meaning and its Components, Calculation of Expected Return and Risk, Calculation of Covariance, Risk – Return Trade off.</p> <p>Portfolio Selection – Meaning, Feasible Set of Portfolios, Efficient Set of Portfolios, Selection of Optimal Portfolio, Markowitz Model, Limitations of Markowitz Model, Measuring Security Return and Portfolio Return and Risk under Single Index Model and Multi Index Model.</p>
2	Portfolio Management – Valuation
	<p>Portfolio Revision – Meaning, Need, Constraints and Strategies.</p> <p>Portfolio Evaluation – Meaning, Need, Measuring Returns (Sharpe, Treynor and Jensen Ratios) and Decomposition of Performance.</p>
3	Fundamental Analysis
	<p>Economy Analysis – Meaning, Framework, Economic Analysis, Forecasting, Barometric or Indicator Approach, Econometric Model Building and Opportunistic Model Building.</p> <p>Industry Analysis – Concept of Analysis, Industry Life Cycle, Industry Characteristics</p> <p>Company Analysis – Financial Statements, Analysis of Financial Statements, (Practical questions on Debt equity ratios, total debt ratio, proprietary ratios, interest coverage ratio, Profitability ratios related to sales, investment and equity shares Efficiency or Activity Ratios) and Assessment of risk (Leverages)</p>
4	Technical Analysis
	<p>Dow Theory</p> <p>Meaning and Principles of Technical Analysis, Price Chart, Line Chart, Bar Chart, Japanese Candlestick Chart, Trends and Trend Reversals, Chart Patterns, Support and Resistance, Reversal Patterns, Continuation Patterns and Elliot Wave Theory</p> <p>Mathematical Indicators – Calculation of Moving Averages (Simple and Exponential Moving Average), Oscillators and Relative Strength Index</p> <p>Market Indicators</p> <p>Fundamental Analysis V/s Technical Analysis</p>

Sr. No.	Modules / Units
5	Efficient Market Theory & CAPM
	<p>Random Walk Theory</p> <p>The Efficient Market Hypothesis</p> <p>Forms of Market Efficiency</p> <p>Competitive Market Hypothesis</p> <p>CAPM – Fundamental Notions of Portfolio Theory, Assumption of CAPM, Efficient Frontier with Riskless Lending and Borrowing, Capital Market Line, Security Market Line and Pricing of Securities with CAPM.</p> <p>Arbitrage Pricing Theory (APT) – The Return Generating Model, Factors Affecting Stock Return, Expected Return on Stock, APT V/s CAPM.</p>

Revised Syllabus of Courses of B.Com. (Accounting and Finance)
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1. Elective Courses (EC)

5. Management Control Systems

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Developments in Management Accounting and Control Systems	08
02	Financial Goal Setting	12
03	Responsibility Centres	15
04	Transfer Pricing	15
05	Inflation Accounting	10
Total		60

Sr. No.	Modules / Units
1	Developments in Management Accounting and Control Systems
	<p>–Introduction- The Modern economic environment, Traditional production processes, The background to change, The new manufacturing computer-aided design, Computer-aided manufacturing, Computer-integrated manufacturing, Flexible manufacturing systems, Value chain, Production operations systems and Management strategies, Material requirements planning, Manufacturing Resources Planning, Optimised Production Technology (OPT), ERP, CRM and SCM Just-in-time concept , Total Quality Management (TQM) and Synchronous Manufacturing.</p> <p>Control in special sectors: Scrap Control, Control of R & D – Project Control, Administrative Cost Control and the emphasis on continuous improvement.</p>
2	Financial Goal Setting
	<p>Analysis of Incremental ROI, Sensitivity Analysis, Developing Financial Goals along Organizational Hierarchy.</p> <p>Concept and Technique of Responsibility Budgeting - Analytical framework for Developing Responsibility Budgets - Integrating Responsibility Budgets Integrating Responsibility Budgeting with MBO System.</p>
3	Responsibility Centres
	<p>Introduction to Cost, Revenue, Profit and Investment Centres, Reporting of Responsibility Centre.</p> <p>Performance Measures -Investment Centres/Strategic Business Units, Return on Investment, The problems with ROI and Residual income (RI)</p>
4	Transfer Pricing
	<p>Introduction - Aims and Features, General rules, Cost-based prices, Market-based prices, Marginal cost, Dual pricing, Profit-maximising transfer prices, Negotiated transfer prices and other behavioural considerations</p>
5	Inflation Accounting
	<p>Introduction - Need, Brief History, Methods of Inflation Accounting (Current Purchasing Power and Current Cost Accounting), Inflation Accounting and Corporate Taxation. Financial Reporting to Management under conditions of change in price level.</p>

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1. Elective Courses (EC)

6. Economics Paper – III (Indian Economy)

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Introduction Agricultural Sector	15
02	Industrial Sector	15
03	Service Sector and External Sector	15
04	Money and Banking	15
	Total	60

Sr. No.	Modules / Units
1	Introduction Agricultural Sector
	Introduction Demographic features- Poverty, Income inequality and Unemployment Urbanization and its effects Agricultural Sector Institutional Structure- Land reforms in India Technological changes in agriculture Agricultural pricing and agricultural finance Agricultural marketing National agricultural policy
2	Industrial Sector
	Growth and pattern of industrialization Industrial Policy of 1991. Public sector enterprises and disinvestment policy Small scale sector- problems and prospects
3	Service Sector and External Sector
	Service Sector Nature and scope of service industry Recent trends in Banking industry, Insurance Industry, Healthcare Industry and Tourism Industry External Sector Structure and directions of Foreign trade India's Balance of payments since 1991 FDI, foreign capital and transnational companies in India. Role and impact of SAARC, ASEAN and WTO
4	Money and Banking
	Money market and its features Monetary policy of RBI Progress of commercial banking in India Development of capital markets SEBI and its functions

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
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2. Core Courses (EC)

1. Financial Accounting – VII

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Final Account for Electricity Company	15
02	Final Accounts for Co-Operative Society: (Co-Operative Housing Society and Consumer Co-Operative Society)	15
03	Investment Accounting (w.r.t. Accounting Standard - 13)	10
04	Mutual Fund	08
05	Introduction to IFRS and Indian Accounting Standards	12
	Total	60

Sr. No.	Modules / Units
1	Final Account for Electricity Company
	<p>Final Accounts as per Double Account System</p> <ul style="list-style-type: none"> • Final Accounts as per Electricity Rules • Receipt & Expenditure on Capital Account • General Balance Sheet • Contingency Reserve <p>Disposal of Surplus (As per Electricity Rules): Norms regarding Disposal of Surplus Replacement of Assets Simple practical problems</p>
2	Final Accounts for Co-Operative Society (Co-Operative Housing Society and Consumer Co-Operative Society)
	<p>Provisions of Maharashtra State Co-Operative Societies Act and rules. Accounting provisions including appropriation to various funds Format of Final Accounts – Form N Simple practical problems on preparation of final accounts of a Co-Operative housing society & Consumer Co-Operative Society</p>
3	Investment Accounting (w.r.t. Accounting Standard- 13)
	<p>For shares (variable income bearing securities) For debentures/Preference. shares (fixed income bearing securities) Accounting for transactions of purchase and sale of investments with ex and cum interest prices and finding cost of investment sold and carrying cost as per weighted average method (Excl. brokerage). Columnar format for investment account.</p>
4	Mutual Fund
	<p>Introduction, Historical Background SEBI Guidelines, Organisation, NAC Scheme, Types of Mutual Fund Schemes, , FOF Scheme, Load or No-Load Scheme, Investment Valuation norms, Pricing of units, Contents of Balance sheet and revenue Account, Evaluation of mutual funds, Disposal of Investments, Recognition of Income, Accounting policies and entries.</p>
5	Introduction to IFRS
	<p>Accounting standards: Role/objectives of accounting standards, Development of accounting standards in India - Requirements of international accounting standards - International organizations engaged in accounting harmonization - IASB - FASB - Role of IASB in developing IFRS, Applicability, Interpretation, Scope and compliance of Accounting Standards Indian Accounting standards (Ind AS) : Introduction, Road map, First time adaptation of Indian Accounting Standard, Conceptual framework Comparison of Ind AS, IFRS and AS IFRS : Introduction, scope Purpose & Objective of financial statement-its Frame work-its assumption, characteristics, element, recognition & measurement., first time adoption of IFRS Convergence of Ind-As and IFRS</p>

**Revised Syllabus of Courses of B.Com.(Accounting and Finance)
Programme at Semester VI
with effect from the Academic Year 2018-2019**

Reference Books

Reference Books
Elective Courses (EC)
Cost Accounting- IV
<ul style="list-style-type: none"> • <i>Lectures on Costing by Swaminathan: S. Chand and Company (P) Ltd., New Delhi</i> • <i>Cost Accounting by C.S. Rayudu, Tata Mc. Grow Hill and Co. Ltd., Mumbai</i> • <i>Cost Accounting by Jawahar Lal and Seema Srivastava, Tata Mc. Grow Hill and Co. Ltd., Mumbai</i> • <i>Cost Accounting by Ravi M. Kishore, Taxmann Ltd., New Delhi</i> • <i>Principles and Practices of Cost Accounting by N.K. Prasad, Book Syndicate Pvt. Ltd., Calcutta</i> • <i>Cost Accounting Theory and Practice by B.K. Bhar, Tata Mc. Grow Hill and Co. Ltd., Mumbai</i> • <i>Cost Accounting Principles and Practice by M.N. Arora, Vikas Publishing House Pvt. Ltd., New Delhi</i> • <i>Advanced Cost and Management Accounting: Problems and Solutions by V.K. Saxena and C.D. Vashist, S. Chand and Company (P) Ltd., New Delhi</i> • <i>Cost Accounting by S.P. Jain and K.L. Narang, Kalyani Publishers, Ludhiana</i> • <i>Modern Cost and Management Accounting by M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi</i>
Financial Management - III
<ul style="list-style-type: none"> • <i>Fundamentals of Financial Management by D. Chandra Bose, PHI Learning Pvt. Ltd., New Delhi</i> • <i>Fundamentals of Financial Management by Bhabotosh Banerjee, PHI Learning Pvt. Ltd., New Delhi</i> • <i>Fundamentals of Financial Management by Vyuptakesh Sharma, Pearson Education, New Delhi</i> • <i>Fundamentals of Financial Management by J.C. Van Horne, Prentice Hall of India, New Delhi</i> • <i>Financial Management: Text and Problems by M.Y. Khan and P.K. Jain, Tata McGraw Hill, New Delhi</i> • <i>Financial Management: Theory and Practice by Prasanna Chandra, Tata McGraw Hill, New Delhi</i> • <i>Financial Management by I.M. Pandey, Vikas Publishing House, New Delhi</i> • <i>Financial Management by C. Paramasivan & T. Subramanian</i> • <i>Financial Management by IM Pandey</i> • <i>Financial Management by Ravi Kishor</i> • <i>Financial Management by Khan & Jain</i>
Taxation - Indirect Taxes - III
<ul style="list-style-type: none"> • <i>Indirect Taxes: Law and Practice by V.S. Datey, Taxmann</i> • <i>Indirect Taxes by V.S. Balchandra, Sultan Chand and Sons, New Delhi</i> • <i>GST Law & practice with Customs & FTP by V.S. Datey, Taxmann</i> • <i>GST by V.S. Datey, Taxmann</i> • <i>GST & customs Law by K.M. Bansal, University Edition</i> • <i>GST Law & practice with Customs & FTP by Vineet Sodhani, Snow White Publications</i> • <i>GST Law & practice with Customs & FTP by Sanjiv Agarwal, Snow White Publications</i> • <i>Indirect taxes(Containing GST, Customs & FTP) by MOhd. Rafi, Bharat Publications</i>
Security Analysis And Portfolio Management
<ul style="list-style-type: none"> • <i>Blake, David 1992, Financial Market Analysis , McGraw Hill London</i> • <i>Francis J.C Investments, Analysis and Management McGraw Hill New York.</i> • <i>Pistolese Clifford Using Technical Analysis Vision Books</i> • <i>Reilly Frank K and Keith Brown Investment Analysis and Portfolio Management.</i>

Reference Books

Management Control Systems

- Anthony & Govindrajana - *Management Control Systems (TATA McGraw Hill), 12th Edition, 2006.*
- Bob Scarlett – *Management Accounting and Performance Evaluation, Oxford Press, 2006 Edition*
- Maciaririllo & Kirby – *Management Control Systems (Prentice Hall India), 2th Edition*

Economics

- *Indian Economic Survey Reports (Annual), Ministry of Finance, Government of India*
- *Indian Economy by Misra and Puri, Himalaya Publishing House - Delhi*
- *Gaurav Dutt & Ashwini Mahajan, (2016) Indian Economy, S.Chand & company PVT LTD New Delhi*
- *A.N. Agarwal – Indian Economy problems of Development and Planning New Age International Publisher*
- *Ruddar Datt K.P.M Sundharam – Indian Economy S. Chand E-co LTD. Delhi*

Core Courses (CC)

Financial Accounting - VII

- *Introduction to Accountancy by T.S. Grewal, S. Chand and Company (P) Ltd., New Delhi*
- *Advance Accounts by Shukla and Grewal, S. Chand and Company (P) Ltd., New Delhi*
- *Advanced Accountancy by R.L Gupta and M. Radhaswamy, S. Chand and Company (P) Ltd., New Delhi*
- *Modern Accountancy by Mukherjee and Hanif, Tata Mc. Grow Hill and Co. Ltd., Mumbai*
- *Financial Accounting by Lesile Chandwichk, Pentice Hall of India Adin Bakley (P) Ltd., New Delhi*
- *Financial Accounting for Management by Dr. Dinesh Harsalekar, Multi-Tech. Publishing Co. Ltd., Mumbai*
- *Financial Accounting by P.C. Tulsian, Pearson Publications, New Delhi*
- *Accounting Principles by R.N. Anthony and J.S. Reece, Richard Irwin, Inc*
- *Financial Accounting by Monga, J.R. Ahuja, Girish Ahuja and Ashok Shehgal, Mayur Paper Back, Noida*
- *Compendium of Statement and Standard of Accounting, ICAI*
- *Indian Accounting Standards, Ashish Bhattacharya, Tata Mc. Grow Hill and Co. Ltd., Mumbai*
- *Financial Accounting by Williams, Tata Mc. Grow Hill and Co. Ltd., Mumbai*
- *Company Accounting Standards by Shrinivasan Anand, Taxman, New Delhi*
- *Financial Accounting by V. Rajasekaran, Pearson Publications, New Delhi*
- *Introduction to Financial Accounting by Horngren, Pearson Publications, New Delhi*
- *Financial Accounting by M. Mukherjee and M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi*
- *Financial Accounting a Managerial Perspective, Varadraj B. Bapat, Mehul Raithatha, Tata McGraw Hill Education Pvt. Ltd., New Delhi*

University of Mumbai



**B.Com. (Accounting and Finance)
Programme
Guidelines for Project Work
at
Third Year
Semester VI**

**Under Choice Based Credit, Grading and
Semester System**

(To be implemented from Academic Year 2018-2019)

Board of Studies-in-Accountancy

Introduction

Inclusion of project work in the course curriculum of the B.Com. (Accounting & Finance) programme is one of the ambitious aspects in the programme structure. The main objective of inclusion of project work is to inculcate the element of research analyse and scientific temperament challenging the potential of learner as regards to his/ her eager to enquire and ability to interpret particular aspect of the study. It is expected that the guiding teacher should undertake the counselling sessions and make the awareness among the learners about the methodology of formulation, preparation and evaluation pattern of the project work.

- There are two modes of preparation of project work
 1. Project work based on research methodology in the study area
 2. Project work based on internship in the study area

Guidelines for preparation of Project Work

1. General guidelines for preparation of project work based on Research Methodology

- The project topic may be undertaken in any area of Elective Courses.
- Each of the learner has to undertake a Project individually under the supervision of a teacher-guide.
- The learner shall decide the topic and title which should be specific, clear and with definite scope in consultation with the teacher-guide concerned.
- University/college shall allot a guiding teacher for guidance to the students based on her / his specialization.
- The project report shall be prepared as per the broad guidelines given below:
 - Font type: Times New Roman
 - Font size: 12-For content, 14-for Title
 - Line Space : 1.5-for content and 1-for in table work
 - Paper Size: A4
 - Margin : in Left-1.5, Up-Down-Right-1
 - The Project Report shall be bounded.
 - The project report should be 80 to 100 pages

Format

1st page (Main Page)

Title of the problem of the Project

**A Project Submitted to
University of Mumbai for partial completion of the degree of
Bachelor in Commerce (Accounting and Finance)
Under the Faculty of Commerce**

By

Name of the Learner

Under the Guidance of

Name of the Guiding Teacher

Name and address of the College

Month and Year

2nd Page

This page to be repeated on 2nd page (i.e. inside after main page)

On separate page

Index

Chapter No. 1 (sub point 1.1, 1.1.1, And so on)	Title of the Chapter	Page No.
Chapter No. 2	Title of the Chapter	
Chapter No. 3	Title of the Chapter	
Chapter No. 4	Title of the Chapter	
Chapter No. 5	Title of the Chapter	

List of tables, if any, with page numbers.

List of Graphs, if any, with page numbers.

List of Appendix, if any, with page numbers.

Abbreviations used:

Structure to be followed to maintain the uniformity in formulation and presentation of Project Work

(Model Structure of the Project Work)

- **Chapter No. 1: Introduction**

In this chapter Selection and relevance of the problem, historical background of the problem, brief profile of the study area, definition/s of related aspects, characteristics, different concepts pertaining to the problem etc can be incorporated by the learner.

- **Chapter No. 2: Research Methodology**

This chapter will include Objectives, Hypothesis, Scope of the study, limitations of the study, significance of the study, Selection of the problem, Sample size, Data collection, Tabulation of data, Techniques and tools to be used, etc can be incorporated by the learner.

- **Chapter No. 3: Literature Review**

This chapter will provide information about studies done on the respective issue. This would specify how the study undertaken is relevant and contribute for value addition in information/ knowledge/ application of study area which ultimately helps the learner to undertake further study on same issue.

- **Chapter No. 4: Data Analysis, Interpretation and Presentation**

This chapter is the core part of the study. The analysis pertaining to collected data will be done by the learner. The application of selected tools or techniques will be used to arrive at findings. In this, table of information's, presentation of graphs etc. can be provided with interpretation by the learner.

- **Chapter No. 5: Conclusions and Suggestions**

In this chapter of project work, findings of work will be covered and suggestion will be enlisted to validate the objectives and hypotheses.

Note: If required more chapters of data analysis can be added.

- **Bibliography**
- **Appendix**

On separate page

Name and address of the college

Certificate

This is to certify that Ms/Mr _____ has worked and duly completed her/his Project Work for the degree of Bachelor in Commerce (Accounting & Finance) under the Faculty of Commerce in the subject of _____ and her/his project is entitled, “ _____ *Title of the Project* _____ ” under my supervision.

I further certify that the entire work has been done by the learner under my guidance and that no part of it has been submitted previously for any Degree or Diploma of any University.

It is her/ his own work and facts reported by her/his personal findings and investigations.



Name and Signature of
Guiding Teacher

Date of submission:

On separate page

Declaration by learner

I the undersigned Miss / Mr. _____ *Name of the learner* _____ here by,
declare that the work embodied in this project work titled “ _____
_____ *Title of the Project* _____ ”,
forms my own contribution to the research work carried out under the guidance of
_____ *Name of the guiding teacher* _____ is a result of my own research work and has
not been previously submitted to any other University for any other Degree/ Diploma
to this or any other University.

Wherever reference has been made to previous works of others, it has been clearly
indicated as such and included in the bibliography.

I, here by further declare that all information of this document has been obtained and
presented in accordance with academic rules and ethical conduct.

Name and Signature of the learner

Certified by

Name and signature of the Guiding Teacher

On separate page

Acknowledgment

(Model structure of the acknowledgement)

To list who all have helped me is difficult because they are so numerous and the depth is so enormous.

I would like to acknowledge the following as being idealistic channels and fresh dimensions in the completion of this project.

I take this opportunity to thank the **University of Mumbai** for giving me chance to do this project.

I would like to thank my **Principal**, _____ for providing the necessary facilities required for completion of this project.

I take this opportunity to thank our **Coordinator** _____, for her moral support and guidance.

I would also like to express my sincere gratitude towards my project guide _____ whose guidance and care made the project successful.

I would like to thank my **College Library**, for having provided various reference books and magazines related to my project.

Lastly, I would like to thank each and every person who directly or indirectly helped me in the completion of the project especially **my Parents and Peers** who supported me throughout my project.

2. Guidelines for Internship based project work

- Minimum 20 days/ 100 hours of Internship with an Organisation/ NGO/ Charitable Organisation/ Private firm.
- The theme of the internship should be based on any study area of the elective courses
- Experience Certificate is Mandatory
- A project report has to be brief in content and must include the following aspects:
 - **Executive Summary:**
A bird's eye view of your entire presentation has to be precisely offered under this category.
 - **Introduction on the Company:**
A Concise representation of company/ organization defining its scope, products/ services and its SWOT analysis.
 - **Statement and Objectives:**
The mission and vision of the organization need to be stated enshrining its broad strategies.
 - **Your Role in the Organisation during the internship:**
The key aspects handled, the department under which you were deployed and brief summary report duly acknowledged by the reporting head.
 - **Challenges:**
The challenges confronted while churning out theoretical knowledge into practical world.
 - **Conclusion:**
A brief overview of your experience and suggestions to bridge the gap between theory and practice.
- The project report based on internship shall be prepared as per the broad guidelines given below:
 - Font type: Times New Roman
 - Font size: 12-For content, 14-for Title
 - Line Space : 1.5-for content and 1-for in table work
 - Paper Size: A4
 - Margin : in Left-1.5, Up-Down-Right-1
 - The Project Report shall be bounded.
 - The project report should be of minimum 50 pages

Evaluation pattern of the project work

The Project Report shall be evaluated in two stages viz.	
• Evaluation of Project Report (Bound Copy)	60 Marks
▪ Introduction and other areas covered	20 Marks
▪ Research Methodology, Presentation, Analysis and interpretation of data	30 Marks
▪ Conclusion & Recommendations	10 Marks
• Conduct of Viva-voce	40 Marks
▪ In the course of Viva-voce, the questions may be asked such as importance / relevance of the study, objective of the study, methodology of the study/ mode of Enquiry (question responses)	10 Marks
▪ Ability to explain the analysis, findings, concluding observations, recommendation, limitations of the Study	20 Marks
▪ Overall Impression (including Communication Skill)	10 Marks

Note:

- *The guiding teacher along with the external evaluator appointed by the University/ College for the evaluation of project shall conduct the viva-voce examination as per the evaluation pattern*

Passing Standard

- Minimum of Grade E in the project component
- In case of failing in the project work, the same project can be revised for ATKT examination.
- Absence of student for viva voce: If any student fails to appear for the viva voce on the date and time fixed by the department such student shall appear for the viva voce on the date and time fixed by the Department, such student shall appear for the viva voce only along with students of the next batch.

**Revised Syllabus of Courses of B.Com. (Accounting and Finance) Programme
at Semester V and VI
with effect from the Academic Year 2018-2019**

Scheme of Evaluation

The performance of the learners will be evaluated in two Components. One component will be the Internal Assessment component carrying 25% marks and the second component will be the Semester-wise End Examination component carrying 75% marks. The allocation of marks for the Internal Assessment and Semester End Examinations will be as shown below:-

A) Internal Assessment: 25 %

**Question Paper Pattern
(Internal Assessment- Courses without Practical Courses)**

Sr. No.	Particular	Marks
1	One class test (20 Marks)	
	Match the Column/ Fill in the Blanks/ Multiple Choice Questions <i>(½ Mark each)</i>	05 Marks
	Answer in One or Two Lines (Concept based Questions) <i>(01 Mark each)</i>	05 Marks
	Answer in Brief (Attempt Any Two of the Three) <i>(05 Marks each)</i>	10 Marks
2	Active participation in routine class instructional deliveries and overall conduct as a responsible learner, mannerism and articulation and exhibit of leadership qualities in organizing related academic activities	05 Marks

B) Semester End Examination: 75 %

- i) Duration: The examination shall be of 2 ½ Hours duration
- ii) Theory question paper pattern
 - There shall be five questions each of 15 marks.
 - All questions shall be compulsory with internal choice within the questions.
 - Question may be subdivided into sub-questions a, b, c... and the allocation of marks depends on the weightage of the topic.

(Detail question paper pattern has been given separately)

❖ Passing Standard

The learners to pass a course shall have to obtain a minimum of 40% marks in aggregate for each course where the course consists of Internal Assessment and Semester End Examination. The learners shall obtain minimum of 40% marks (i.e. 10 out of 25) in the Internal Assessment and 40% marks in Semester End Examination (i.e. 30 Out of 75) separately, to pass the course and minimum of Grade E to pass a particular semester A learner will be said to have passed the course if the learner passes the Internal Assessment and Semester End Examination together.

Question Paper Pattern (Practical Courses)

Maximum Marks: 75

Questions to be set: 05

Duration: 2 1/2 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Objective Questions A. Sub Questions to be asked 10 and to be answered any 08 B. Sub Questions to be asked 10 and to be answered any 07 (*Multiple choice / True or False / Match the columns/Fill in the blanks)	15 Marks
Q-2	Full Length Practical Question OR	15 Marks
Q-2	Full Length Practical Question	15 Marks
Q-3	Full Length Practical Question OR	15 Marks
Q-3	Full Length Practical Question	15 Marks
Q-4	Full Length Practical Question OR	15 Marks
Q-4	Full Length Practical Question	15 Marks
Q-5	A) Theory questions B) Theory questions OR	08 Marks 07 Marks
Q-5	Short Notes To be asked 05 To be answered 03	15 Marks

Note:

Practical question of 15 marks may be divided into two sub questions of 7/8 and 10/5Marks. If the topic demands, instead of practical questions, appropriate theory question may be asked.

Question Paper Pattern (Theoretical Courses)

Maximum Marks: 75

Questions to be set: 05

Duration: 2 1/2 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Objective Questions A) Sub Questions to be asked 10 and to be answered any 08 B) Sub Questions to be asked 10 and to be answered any 07 (*Multiple choice / True or False / Match the columns/Fill in the blanks)	15 Marks
Q-2	Full Length Question OR	15 Marks
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question OR	15 Marks
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question OR	15 Marks
Q-4	Full Length Question	15 Marks
Q-5	A) Theory questions B) Theory questions OR	08 Marks 07 Marks
Q-5	Short Notes To be asked 05 To be answered 03	15 Marks

Note:

Theory question of 15 marks may be divided into two sub questions of 7/8 and 10/5Marks.

UNIVERSITY OF MUMBAI

No. UG/91 of 2018-19

CIRCULAR:-

Attention of the Principals of the affiliated Colleges and Directors of the recognized Institutions in Commerce & Management Faculty is invited to this office Circular No. UG/28 of 2015, dated 22nd July, 2015 relating to syllabus of Bachelor of Commerce (Accounting and Finance) degree programme.

Their attention is also invited to University Circular No. UG/106 of 2016-17 dated 25th October, 2016 for F.Y.B.Com. (Accounting & Finance) Sem. I & II and University Circular No. UG/166 of 2017-18 dated 8th August, 2017 for S.Y.B.Com. (Accounting & Finance) Sem. III & IV respectively.

They are hereby informed that the recommendations made by the Board of Studies in Accountancy at its meeting held on 28th February, 2018 have been accepted by the Academic Council at its meeting held on 5th May, 2018 vide item No. 4.42 and that in accordance therewith, the revised syllabus as per the (CBCS) for the T.Y.B.Com. in Accountancy (Accounting and Finance) (Sem. V & VI), has been brought into force with effect from the academic year 2018-19, accordingly. (The same is available on the University's website www.mu.ac.in).

MUMBAI - 400 032

27th July, 2018

To

The Principals of the affiliated Colleges and Directors of the recognized Institutions in Commerce & Management Faculty. (Circular No. UG/334 of 2017-18 dated 9th January, 2018.)

A.C./4.42/05/05/2018

No. UG/ 91 -A of 2018

MUMBAI-400 032

27th July, 2018

Copy forwarded with Compliments for information to:-

- 1) The I/c Dean, Faculty of Commerce & Management,
- 2) The Director, Board of Examinations and Evaluation,
- 3) The Director, Board of Students Development,
- 4) The Professor-cum-Director, Institute of Distance and Open Learning (IDOL),
- 5) The Co-Ordinator, University Computerization Centre,


(Dr. Dinesh Kamble)
I/c REGISTRAR

University of Mumbai



**Revised Syllabus
and
Question Paper Pattern
of Courses of
B.Com. (Accounting and Finance)
Programme at
Third Year
*Semester V and VI***

**Under Choice Based Credit, Grading and
Semester System**

(To be implemented from Academic Year 2018-2019)
Board of Studies-in-Accountancy

B.Com. (Accounting and Finance) Programme

Under Choice Based Credit, Grading and Semester System

T.Y.B.Com. (Accounting and Finance)

(To be implemented from Academic Year 2018-2019)

No. of Courses	Semester V	Credits	No. of Courses	Semester VI	Credits
1	Elective Courses (EC)		1	Elective Courses (EC)	
1,2,3 &4	*Any four courses from the following list of the courses	12	1,2,3 &4	**Any four courses from the following list of the courses	12
2	Core Courses (CC)		2	Core Courses (CC)	
5	Financial Accounting - V	04	5	Financial Accounting - VII	04
6	Financial Accounting - VI	04	6	Project Work-II	04
Total Credits		20	Total Credits		20

✓ **Note:** Project work is considered as a special course involving application of knowledge in solving/analyzing/exploring a real life situation/ difficult problem. Project work would be of 04 credits each. A project work may be undertaken in any area of Elective Courses/ Study Area

*List of Elective Courses for Semester V (Any Four)		**List of Elective Courses for Semester VI (Any Four)	
01	Cost Accounting - III	01	Cost Accounting - IV
02	Financial Management - II	02	Financial Management - III
03	Taxation - IV (Indirect Taxes - II)	03	Taxation - V (Indirect Taxes- III)
04	International Finance	04	Security Analysis and Portfolio Management
05	Financial Analysis and Business Valuation	05	Management Control Systems
06	Management -II (Management Applications)	06	Economics Paper – III (Indian Economy)
Note: Course selected in Semester V will continue in Semester VI			

B.Com. (Accounting and Finance) Programme
Under Choice Based Credit, Grading and Semester System
Course Structure

(To be implemented from Academic Year 2018-2019)

Semester V

No. of Courses	Semester V	Credits
1	<i>Elective Courses (EC)</i>	
1,2,3 & 4	*Any four courses from the following list of the courses	12
2	<i>Core Courses (CC)</i>	
5	Financial Accounting - V	04
6	Financial Accounting - VI	04
Total Credits		20

<i>*List of Elective Courses for Semester V (Any Four)</i>	
01	Cost Accounting - III
02	Financial Management - II
03	Taxation - IV (Indirect Taxes - II)
04	International Finance
05	Financial Analysis and Business Valuation Management
06	Management -II (Management Applications)I

Revised Syllabus of Courses of B.Com. (Accounting and Finance)
Programme at Semester V
with effect from the Academic Year 2018-2019

1. Elective Courses (EC)

1. Cost Accounting – III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Uniform Costing and Inter-Firm Comparison	05
02	Integrated System and Non Integrated System of Accounts	15
03	Operating Costing	10
04	Process Costing- Equivalent Units of Production and Inter-process Profit	15
05	Activity Based Costing System	15
Total		60

Sr. No.	Modules / Units
1	Uniform Costing and Inter –Firm Comparison
	<p>Uniform costing Meaning of and need for Uniform costing Essentials for success of Uniform costing Advantages and limitations of Uniform costing Areas of Uniformity, Uniform cost manual</p> <p>Inter Firm Comparison Pre-requisites of inter firm comparison; Advantages and limitations Practical problems</p>
2	Integrated System and Non- integrated System of Accounts
	<p>Integrated System Meaning; Features, Advantages and Disadvantages Journal Entries and Preparing Integrated Ledgers. Practical problems</p> <p>Non-Integrated system Meaning; Features, Advantages and disadvantages Journal entries and Preparing Cost Control Accounts Practical problems</p>
3	Operating Costing
	<p>Meaning of operating costing; Determination of per unit cost ; Pricing of services Collection of costing data Note-Practical problems based on costing of hospitals, hotels, goods and passengers transport service</p>
4	Process Costing – Equivalent units of Production and Inter Process Profit
	<p>Valuation of Work in progress and Equivalent production (FIFO Method and Weighted Average Method)) Inter Process transfer at Profit Practical problems</p>
5	Activity Based Costing System
	<p>Activity Based Costing – Introduction, Advantages, Limitations, Identification of cost drivers, Practical Problems on Traditional V/s Activity Based Costing System.</p>

Revised Syllabus of Courses of B.Com. (Accounting and Finance)
Programme at Semester V
with effect from the Academic Year 2018-2019

1. Elective Courses (EC)

2. Financial Management -II

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Strategic Financial Management	05
02	Capital Budgeting – Project Planning & Risk Analysis	15
03	Capital Structure Theories and Dividend Decisions	15
04	Mutual Fund and Bond Valuation	15
05	Credit Management	10
Total		60

Sr. No.	Modules / Units
1	Strategic Financial Management
	Strategic Financial Management – Need and Importance Corporate, Business and Functional Strategy Financial Planning - Need and Importance Profit Maximization Wealth Maximization Interface of Financial Policy and Strategic Management Relationship of Finance to Economics and Accounting Role of Financial Manager
2	Capital Budgeting – Project Planning & Risk Analysis
	Introduction - Capital Budgeting Process, Project Classification and Investment Criteria. Techniques of Capital Budgeting - NPV, Benefit Cost Ratio, Internal Rate of Return, Modified Internal Rate of Return, Payback period, Discounted Payback Period and ARR. (Inclusive of Estimation of Project Cash Flows) Capital Rationing – Meaning, Need and Dealing with Capital Rationing Problems Risk Analysis in Capital Budgeting – Sources and Perspectives of Risk, Sensitivity Analysis, Scenario Analysis, Simulation Model, Decision Tree Analysis and Break - Even Analysis.
3	Capital Structure Theories and Dividend Decisions
	Capital Structure Theories – Background, Assumptions, Definitions and Taxation and Capital Structure Types – Net Operating Income, Net Operating Income Approach, Traditional Position, Modigliani and Miller Approach, Trade off Theory and Signalling Theory. Dividend Decisions- Need, Importance, Formulation, Legal and Procedural Aspects. Dividend Decision Models - Walter, Gordon, Graham & Dodd Model and M-M Model
4	Mutual Fund and Bond Valuation
	Introduction to Mutual Fund- History & Origin, Definition, Meaning, Characteristics, Advantages, Disadvantages, Limitations of Mutual Funds, Ethics in Mutual Fund. Entities involved – Sponsor, Trust, Trustee, Asset Management Company, Registrar and Transfer Agent (RTA) and Fund Houses in India. Classification of Mutual Fund - Functional/Operational – Open ended, close ended, Interval, Portfolio – Income, Growth, Balanced, MMMF, Geographical/ Location – Domestic and Offshore, Tax Saving Funds, Exchange Traded Funds , Balance Funds , Fixed Term Plan Debt Funds and SIP. Calculations of NAV, Entry Load and Exit Load. Bond Valuation - Meaning, Measuring Bond Returns – Yield to Maturity, Yield to call and Bond Pricing. Bond Pricing Theorems, Bond Risks and Bond Duration. (Practical Problems on YTM and Bond Duration.)
5	Credit Management
	Credit Management – Terms of Payment, Credit Policy Variables, Credit Evaluation, Credit Granting Decision, Control of Accounts Receivables ie Receivables Management, Ageing Schedule and Credit Management in India

Revised Syllabus of Courses of B.Com. (Accounting and Finance)
Programme at Semester V
with effect from the Academic Year 2018-2019

1. Elective Courses (EC)

3. Taxation – IV (Indirect Taxes – II)

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Introduction to Indirect Taxation and GST	10
02	Levy and Collection of GST	08
03	Concept of Supply	08
04	Documentation	08
05	Input Tax Credit and Computation of GST	20
06	Registration	06
Total		60

Sr. No.	Modules / Units
1	Introduction to Indirect Taxation and GST
	<p>Basics for Taxation - Direct Taxes and Indirect Taxes – Features of Indirect taxes, Difference, Advantages and Disadvantages, Sources and Authority of Taxes in India (Art 246 of the Indian Constitution)</p> <p>Introduction to GST – Genesis of GST in India, Power to tax GST (Constitutional Provisions), Extent and Commencement, Meaning and Definition of GST, Benefits of GST, Conceptual Framework – CGST, IGST,SGST,UTGST, Imports of goods or services or both, Export of goods or services or both, Taxes subsumed and not subsumed under GST.</p> <p>GST Council and GST Network</p> <p>Definitions under CGST Act</p>
2	Levy and Collection of GST
	Charge of GST, Levy and Collection GST, Composite and Mixed Supplies under GST, Power to Grant Exemption, Negative list of GST, GST Rate Schedule for Goods and Services
3	Concept of Supply
	Taxable Event Supply Place of Supply Time of Supply Value of Supply
4	Documentation
	Tax Invoices, Credit and Debit notes
5	Input Tax Credit and Computation of GST
	Eligibility and conditions for taking Input Tax Credit Apportionment of credit & Blocked credits Credit in special circumstances Computation of GST under Inter State supplies and Intra State Supplies
6	Registration
	Registration – Persons liable for Registration, Persons not liable for Registration, Procedure for Registration, Deemed Registration,, Amendment, Cancellation and Revocation of Registration.

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
Programme at Semester V
with effect from the Academic Year 2018-2019**

1. Elective Courses (EC)

4. International Finance

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Derivatives – Futures	15
02	Derivatives – Options	15
03	Foreign Exchange Markets and Dealings	15
04	Foreign Exchange Exposure and Risk Management	15
	Total	60

Sr. No.	Modules / Units
1	Derivatives – Futures
	Derivatives – Need and Importance, Major Players in Derivative Markets, Features of Forward Contracts, Features of Future Contract, Forward V/s Future, Theoretical Future Price, Pricing Index Futures, Initial Margin and Maintenance Margin, Marking to Market and Variation Margin.
2	Derivatives – Options
	Options- Long Call, Short Call, Long Put, Short Put, Options V/s Futures, Writer of an Option, At the Money, In the Money and Out of The Money Options. Intrinsic and Time Value, Option Spreads and Strategies, Put Call Parity Theorem.
3	Foreign Exchange Markets and Dealings
	Introduction – Participants of Foreign Exchange Markets, Characteristics of Foreign Exchange Market, Major Foreign Currencies that Trade Worldwide, Foreign Currency Accounts – Nostro, Vostro and Loro (Cash Position and Currency position) Terms in Forex Market – Direct Quote and Indirect Quote, Bid, Ask and Spread, American terms, European terms, Spot, Tom, Cash and Forward Rates, Appreciation and Depreciation of currency, Premium and Discount, Swap Points, and Cross Rates.
4	Foreign Exchange Exposure and Risk Management
	Exchange Rate Determination Theories – The theory of Purchasing Power Parity, The Fischer effect, The International Fischer Effect and The Theory of Interest Rate Parity. Calculation of Forward Rate and Future Spot Rate. Arbitrage in Foreign Exchange Market – Covered and Uncovered Interest Arbitrage. Foreign Exchange Risk - Introduction, Types of Exposures and Strategies for Exposure Management. Hedging Transaction Exposure, Hedging Techniques, Money Market Hedge, Forward Hedge and Hedging of Futures & Options

Revised Syllabus of Courses of B.Com. (Accounting and Finance)
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1. Elective Courses (EC)

5. Financial Analysis and Business Valuation

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Financial Modeling for Project Appraisal	05
02	Financial Analysis	15
03	Growth Analysis and Sustainable Earning	10
04	Basics of Valuation	06
05	Valuation Models	12
06	Valuation of Assets and Liabilities	12
Total		60

Sr. No.	Modules / Units
1	Financial Modeling for Project Appraisal
	Financial Modeling – concepts and application Financial statements module area Use of functions -NPV and IRR Forecasting Techniques
2	Financial Analysis
	Financial Analysis, Financial Statement Analysis, Analysis of Balance Sheet Analysis of Income Statement Analysis of Statement of Shareholder Equity Analysis of Cash flow Statement Analysis of Profitability
3	Growth Analysis and Sustainable Earning
	Concept of Growth Analysis Analysis of changes in profitability and sustainable earnings Evaluation of P/B ratios and P/E ratios
4	Basics of Valuation
	Introduction to valuation Value, Distinction between Price and Value Foundation of Business Valuation Purpose of business valuation Valuation Bias Uncertainties in Business Valuation Role of valuation in business acquisition, legal and tax purposes, efficient market hypothesis
5	Valuation Models
	Introduction to valuation models: asset based approach, Income based approach, market based approach Discounted cash flow valuation Relative valuation Free Cash Flow valuation
6	Valuation of Assets and Liabilities
	Valuation of Fixed Assets, Valuation of Inventories and Valuation of Investment Valuation of Shares Valuation of Goodwill, Patents, Copyrights, Brands, Real Estate Valuation of Liabilities

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
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1. Elective Courses (EC)

6. Management- II (Management Applications)

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Marketing Management	15
02	Production Management	15
03	Human Resource Management	15
04	Financial Management	15
Total		60

Sr. No.	Modules / Units
1	Marketing Management
	Meaning and Definition of Marketing – 4 Ps of Marketing, Importance Product Management – Meaning & Definition – Product Development Strategies, Product life cycle, Branding- Meaning, Factors influencing branding Price Management – Meaning and Definition – Factors affecting pricing decisions, Pricing Strategies Place (Distribution) Management – Meaning and Definition – Factors Governing Distribution Decisions – Types of Distribution Channels Promotion Management – Meaning – Promotion Strategies, Integrated marketing communication Case studies based on the above topics
2	Production Management
	Meaning and Definition of Production Management – Scope of Production Management, Steps in Production Planning and Control Meaning of Productivity - Measurement of Productivity – Measure to increase Productivity – Productivity Movement in India Meaning and Definition of Quality Management – TQM – Quality Circles – ISO 9000/14000 Inventory Management – Meaning and Methods Case studies based on the above topics
3	Human Resource Management
	Human Resource Management – Meaning, Nature, Functions of Human Resource Management Human Resource Planning- Meaning, Process of Human Resource Planning Human Resource Development- Methods of Developing Human Resource Performance Appraisal – Meaning and Definition – Traditional and Modern Methods of Appraisal Employee retention Leadership- Traits, Styles Motivation- Factors of Motivation, Theories of Motivation- Maslow’s Theory, Douglas MacGregor’s Theory X and Theory Y Case studies based on the above topics
4	Financial Management
	Meaning and Definition of Financial Management – Functions of Financial Management Capital Budgeting- Introduction, Importance and Process Capital Structure- Meaning, Factors affecting Capital Structure Capital Market – Meaning and Constituents – Functions Fundamental Analysis – Technical Analysis - Venture Capital – DEMAT Account - Futures and Options Case studies based on the above topics

**Revised Syllabus of Courses of B.Com. (Accounting and Finance)
Programme at Semester V
with effect from the Academic Year 2018-2019**

2. Core Courses (CC)

1. Financial Accounting - V

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Underwriting of shares & debentures	08
02	Buy-Back of shares	10
03	AS – 14 - Amalgamation, Absorption & External Reconstruction (excluding inter – company holding)	15
04	Internal Reconstruction	15
05	Liquidation of Companies	10
	Total	60

Sr. No.	Modules / Units
1	Underwriting of shares & debentures
	Introduction, Underwriting, Underwriting Commission Provision of Companies Act with respect to Payment of underwriting commission Underwriters, Sub-Underwriters, Brokers and Manager to issues Types of underwriting, Abatement Clause Marked, Unmarked and Firm-underwriting applications, Liability of the underwriters in respect of underwriting contract Practical problems
2	Buy Back of Shares
	Company Law / Legal provisions (including related restrictions, power, transfer to capital redemption reserve account and prohibitions). Compliance of conditions including sources, maximum limits and debt equity ratio. Cancellation of Shares Bought back(Excluding Buy Back of minority shareholding) Practical problems
3	AS – 14 - Amalgamation, Absorption & External Reconstruction (excluding inter-company holdings)
	In the nature of merger and purchase with corresponding accounting treatments of pooling of interests and purchase method respectively. Meaning and Computation of purchase consideration. Problems based on purchase method only. Practical problems
4	Internal Reconstruction
	Need for reconstruction and company law provisions. Distinction between internal and external reconstruction. Methods including alteration of share capital, variation of shareholder rights, sub division, consolidation, surrender and reissue / cancellation, reduction of share capital with relevant legal provisions and accounting treatment for same. Practical problems
5	Liquidation of Companies
	Meaning of liquidation or winding up Preferential payments Overriding preferential payments Preparation of statement of affairs, deficit / surplus account Liquidator's final statement of account Practical problems

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with effect from the Academic Year 2018- 2019

2. Core Courses (CC)

2. Financial Accounting – VI

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Final Accounts of Banking Company	15
02	Final Accounts of Insurance Company (Excl. Life Insurance)	15
03	Non – Banking Financial Companies	08
04	Valuation of Goodwill and Shares	12
05	Accounting for Limited Liability Partnership	10
Total		60

Sr. No.	Modules / Units
1	Final Accounts of Banking Company
	Legal provision in Banking Regulation Act, 1949 relating to Accounts. Statutory reserves including Cash Reserve and Statutory Liquidity Ratio. Bill purchase and discounted, rebate of bill discounted. Final Accounts in prescribed form Non – performing assets and Income from non – performing assets. Capital Adequacy Classification of Advances, standard, sub – standard, doubtful and provisioning requirement.
2	Final Accounts of Insurance Company (Excl. Life Insurance)
	General Insurance – Various types of insurance, like fire, marine, Miscellaneous, Special terms like premium, claims, commission, Management expenses, Reserve for unexpired risk, reinsurance Final Accounts in a prescribed form. Revenue Statement – Form B – RA, Profit / Loss Account – Form B – PL and Balance Sheet Form B – BS.
3	Non – Banking Financial Companies
	Introduction, Definition, Registration and Regulation, Classification, Income Recognition, Accounting of Investment, Applicability of Prudential Norms, Assets classification, Non- performing Assets, Capital Adequacy, Preparation of Financial statement
4	Valuation of Goodwill and Shares
	Valuation of Goodwill Maintainable Profit method, Super Profit Method Capitalization method, Annuity Method Valuation of Shares Intrinsic Value Method, Yield method and Fair Value Method
5	Accounting for Limited Liability Partnership
	Statutory provisions Conversion of partnership business into Limited Liability Partnership Final accounts

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with effect from the Academic Year 2018-2019**

Reference Books

Reference Books
Elective Courses (EC)
Cost Accounting- III
<ul style="list-style-type: none"> • <i>Lectures on Costing by Swaminathan: S. Chand and Company (P) Ltd., New Delhi</i> • <i>Cost Accounting by C.S. Rayudu, Tata Mc. Grow Hill and Co. Ltd., Mumbai</i> • <i>Cost Accounting by Jawahar Lal and Seema Srivastava, Tata Mc. Grow Hill and Co. Ltd., Mumbai</i> • <i>Cost Accounting by Ravi M. Kishore, Taxmann Ltd., New Delhi</i> • <i>Principles and Practices of Cost Accounting by N.K. Prasad, Book Syndicate Pvt. Ltd., Calcutta</i> • <i>Cost Accounting Theory and Practice by B.K. Bhar, Tata Mc. Grow Hill and Co. Ltd., Mumbai</i> • <i>Cost Accounting Principles and Practice by M.N. Arora, Vikas Publishing House Pvt. Ltd., New Delhi</i> • <i>Advanced Cost and Management Accounting: Problems and Solutions by V.K. Saxena and C.D. Vashist, S. Chand and Company (P) Ltd., New Delhi</i> • <i>Cost Accounting by S.P. Jain and K.L. Narang, Kalyani Publishers, Ludhiana</i> • <i>Modern Cost and Management Accounting by M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi</i>
Financial Management - II
<ul style="list-style-type: none"> • <i>Fundamentals of Financial Management by D. Chandra Bose, PHI Learning Pvt. Ltd., New Delhi</i> • <i>Fundamentals of Financial Management by Bhabotosh Banerjee, PHI Learning Pvt. Ltd., New Delhi</i> • <i>Fundamentals of Financial Management by Vyuptakesh Sharma, Pearson Education, New Delhi</i> • <i>Fundamentals of Financial Management by J.C. Van Horne, Prentice Hall of India, New Delhi</i> • <i>Financial Management: Text and Problems by M.Y. Khan and P.K. Jain, Tata McGraw Hill, New Delhi</i> • <i>Financial Management: Theory and Practice by Prasanna Chandra, Tata McGraw Hill, New Delhi</i> • <i>Financial Management by I.M. Pandey, Vikas Publishing House, New Delhi</i> • <i>Financial Management by C. Paramasivan & T. Subramanian</i> • <i>Financial Management by IM Pandey</i> • <i>Financial Management by Ravi Kishor</i> • <i>Financial Management by Khan & Jain</i>
Taxation - Indirect Taxes - Paper IV
<ul style="list-style-type: none"> • <i>Indirect Taxes: Law and Practice by V.S. Datey, Taxmann</i> • <i>Indirect Taxes by V.S. Balchandra, Sultan Chand and Sons, New Delhi</i> • <i>GST Law & practice with Customs & FTP by V.S. Datey, Taxmann</i> • <i>GST by V.S. Datey, Taxmann</i> • <i>GST & customs Law by K.M. Bansal, University Edition</i> • <i>GST Law & practice with Customs & FTP by Vineet Sodhani, Snow White Publications</i> • <i>GST Law & practice with Customs & FTP by Sanjiv Agarwal, Snow White Publications</i> • <i>Indirect taxes(Containing GST, Customs & FTP) by MOhd. Rafi, Bharat Publications</i>
International Finance
<ul style="list-style-type: none"> • <i>P G Apte, International Financial Management, 5th Edition, The McGraw Hill</i> • <i>Cheol . S. Eun & Bruce G. Resnick, International Finance Management</i> • <i>Maurice D. Levi, International Finance – Special Indian Edition</i> • <i>Prakash G. Apte, International Finance – A Business Perspective</i> • <i>V A. Aadhani, International Finance</i>

Reference Books

Financial Analysis and Business Valuation

- *Valuation: Measuring and Managing the value of Companies: Thomas Copeland- Wiley*
- *The Handbook of Advance Business Valuation: Rober F Reilly and Robert Swhweish: Mc Graw hill*
- *Business Valuation: Pitabas Mohanty- Taxmann*
- *Valuation- Measuring and Managing the value of Companies : Tim Koller- Mc Kinsey & Co*

Management II (Management Applications)

- *Kotlar, Philip, Marketing Management, Prentice Hall, New Delhi.*
 - *Stanton, Etzel, Walker, Fundamentals of Marketing, Tata-McGraw Hill, New Delhi.*
 - *Saxena, Rajan, Marketing Management, Tata-McGraw Hill, New Delhi.*
 - *McCarthy, E.J., Basic Marketing: A managerial approach, Irwin, New York.*
 - *Pillai R S, Bagavathi, Modern Marketing*
 - *Principles of Management , Ramasamy , Himalya Publication , Mumbai*
 - *Principles of Management , Tripathi Reddy , Tata Mc Grew Hill*
 - *Management Text & Cases , VSP Rao , Excel Books, Delhi*
 - *Management Concepts and OB , P S Rao & N V Shah , AjabPustakalaya*
 - *Essentials of Management , Koontz II & W , Mc. Grew Hill , New York*
- Principles of Management-Text and Cases –Dr..M.SakthivelMurugan, New Age Publications*

Core Courses (CC)

Financial Accounting - V and VI

- *Introduction to Accountancy by T.S. Grewal, S. Chand and Company (P) Ltd., New Delhi*
- *Advance Accounts by Shukla and Grewal, S. Chand and Company (P) Ltd., New Delhi*
- *Advanced Accountancy by R.L Gupta and M. Radhaswamy, S. Chand and Company (P) Ltd., New Delhi*
- *Modern Accountancy by Mukherjee and Hanif, Tata Mc. Grow Hill and Co. Ltd., Mumbai*
- *Financial Accounting by Lesile Chandwichk, Pentice Hall of India Adin Bakley (P) Ltd., New Delhi*
- *Financial Accounting for Management by Dr. Dinesh Harsalekar, Multi-Tech. Publishing Co. Ltd., Mumbai*
- *Financial Accounting by P.C. Tulsian, Pearson Publications, New Delhi*
- *Accounting Principles by R.N. Anthony and J.S. Reece, Richard Irwin, Inc*
- *Financial Accounting by Monga, J.R. Ahuja, Girish Ahuja and Ashok Shehgal, Mayur Paper Back, Noida*
- *Compendium of Statement and Standard of Accounting, ICAI*
- *Indian Accounting Standards, Ashish Bhattacharya, Tata Mc. Grow Hill and Co. Ltd., Mumbai*
- *Financial Accounting by Williams, Tata Mc. Grow Hill and Co. Ltd., Mumbai*
- *Company Accounting Standards by Shrinivasan Anand, Taxman, New Delhi*
- *Financial Accounting by V. Rajasekaran, Pearson Publications, New Delhi*
- *Introduction to Financial Accounting by Horngren, Pearson Publications, New Delhi*
- *Financial Accounting by M. Mukherjee and M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi*
- *Financial Accounting a Managerial Perspective, Varadraj B. Bapat, Mehul Raithatha, Tata McGraw Hill Education Pvt. Ltd., New Delhi*

B.Com. (Accounting and Finance) Programme
Under Choice Based Credit, Grading and Semester System
Course Structure

(To be implemented from Academic Year 2018-2019)

Semester VI

No. of Courses	Semester VI	Credits
1	<i>Elective Courses (EC)</i>	
1,2,3 & 4	**Any four courses from the following list of the courses	12
2	<i>Core Course (CC)</i>	
5	Financial Accounting - VII	04
6	Project Work -II	04
Total Credits		20

**List of Elective Courses for Semester VI (Any Four)	
01	Cost Accounting - IV
02	Financial Management - III
03	Taxation - V (Indirect Taxes- III)
04	Management Control Systems
05	Security Analysis and Portfolio Management
06	Economics Paper – III (Indian Economy)

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Programme at Semester VI
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1. Elective Courses (EC)

1. Cost Accounting - IV

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Budgeting and Budgetary Control	15
02	Absorption Costing and Marginal Costing Cost Volume and Profit Analysis	15
03	Managerial Decision Making	15
04	Standard Costing and Variance Analysis	15
	Total	60

Sr. No.	Modules / Units
1	Budgeting and Budgetary Control
	Meaning & objectives, Advantages and limitations of budgets Functional budgets, fixed and flexible budgets Zero based budgeting, performance budgeting <i>Practical problems of preparing flexible budgets and functional budgets</i>
2	Absorption Costing and Marginal Costing, Cost Volume and Profit Analysis
	Absorption Costing and Marginal Costing Meaning of absorption costing, Introduction to marginal costing Distinction between absorption costing and marginal costing Advantages and limitations of marginal costing Cost Volume and Profit Analysis Break even analysis meaning and graphic presentation Margin of safety Key factor <i>Practical problems based on using the marginal costing formulae and key factor</i>
3	Managerial Decision Making
	Make or buy Sales mix decisions Exploring new markets Plant shut down decision <i>Practical problems</i>
4	Standard Costing and Variance Analysis
	Preliminaries in installing of a standard cost system Material Cost variance Labour cost variance Variable overhead variances Fixed Overhead variances Sales variances Profit variances <i>Practical problems</i>

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1. Elective Courses (EC)

2. Financial Management - III

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Business Valuation	05
02	Mergers and Acquisitions	15
03	Corporate Restructuring and Takeovers	15
04	Lease and Hire Purchase Financing	15
05	Working Capital financing	10
	Total	60

Sr. No.	Modules / Units
1	Business Valuation
	<p>Conceptual Framework of Valuation – Book Value, Market Value, Economic Value, Liquidation Value, Replacement Value, Salvage Value, Value of Goodwill and Fair Value</p> <p>Approaches of Valuation – Assets Based Approach to Valuation, Earnings Based Approach to Valuation , Earnings Measure on Cash Flow Basis, Market Value Added Approach and Economic Value Added.</p>
2	Mergers and Acquisitions
	<p>Introduction- Basic modes of acquiring another firm, Synergy effects, Difference between Merger and Takeover, Advantages of Mergers and Acquisitions, Benefits of Merger for Acquiring firm, Reasons of companies to offer themselves for sale, Reasons for failure of Mergers and Reverse Merger.</p> <p>Commonly Used Bases for determining the Exchange Ratio – EPS, MPS, Book value and Combination of Measures and Evaluation of Mergers (Practical Problems)</p>
3	Corporate Restructuring and Takeovers
	<p>Introduction – Meaning, Need and Importance, Forms of Restructuring, Advantages and Disadvantages</p> <p>Takeovers – Meaning, SEBI Guidelines, Anti-takeover defences and Asset and Liability Restructuring. (Practical Problems)</p>
4	Lease and Hire Purchase Financing
	<p>Introduction – Meaning and Types of Leases, Rationale, Mechanics, Operating Leases, Leasing as Financing Decisions, Calculation of Cash flows of a finance lease.</p> <p>Hire Purchase – Meaning, Need and Importance, Calculation of Hire Purchase instalments.</p> <p>Choice between Leasing and Hire Purchase</p>
5	Working Capital financing
	<p>Introduction – Key features and Characteristics of Trade Credit, Bank Credit, Commercial Papers, Certificate of Deposits and Factoring.</p> <p>Practical Problems based on Factoring and calculations of yield of CP's and CD's</p>

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1. Elective Courses (EC)

3. Taxation - Paper V (Indirect Taxes – III)

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Payment of Tax and Refunds	08
02	Returns	08
03	Accounts, Audit, Assessment and Records	08
04	Custom Act - I	12
05	Custom Act - II	12
06	Foreign Trade Policy	12
Total		60

Sr. No.	Modules / Units
1	Payment of Tax and Refunds
	Payment of Tax, Interest and other Amounts, Interest on delayed Payment, TDS, TCS Refund of tax, Refund in certain cases, Interest on delayed refunds
2	Returns
	Types of Returns and Provisions relating to filing of Returns
3	Accounts, Audit, Assessment and Records
	Accounts and other records, Period of retention of accounts, Electronic Way Bill Self-Assessment, Provisional Assessment, Scrutiny of Returns, Assessment of non-filers of Returns, Assessment of Unregistered person, summary assessment in certain special cases, Audit by tax authorities, Special Audit.
4	Custom Act - I
	Introduction to customs law including Constitutional aspects Levy of and exemptions from customs duties – All provisions including application of customs law, taxable event, charge of customs duty, exceptions to levy of customs duty, exemption from custom duty Types of customs duties Classification and valuation of imported and export goods
5	Custom Act - II
	Import and Export Procedures – All import and export procedures including special procedures relating to baggage, goods imported or exported by post, stores Provisions relating to coastal goods and vessels carrying coastal goods Warehousing and Drawback
6	Foreign Trade Policy
	Introduction to FTP – legislation governing FTP, salient features of an FTP, Foreign Trade Policy 2015- 20, administration of FTP, contents of FTP, scope of FTP. Provision related to import and export of goods Basic concepts relating to export promotion schemes provided under FTP – Duty Exemption & remission Schemes, Duty Free Import Authorization Scheme, Reward scheme, Export Promotion Capital Goods Scheme, EOU, STP, BTP AND EHTP scheme.

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1. Elective Courses (EC)

4. Security Analysis and Portfolio Management

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Portfolio Management – An Introduction & Process	12
02	Portfolio Management – Valuation	12
03	Fundamental Analysis	12
04	Technical Analysis	12
05	Efficient Market Theory & CAPM	12
Total		60

Sr. No.	Modules / Units
1	Portfolio Management – An Introduction & Process
	<p>Investment - Meaning, Characteristics, Objectives, Investment V/s Speculation, Investment V/s Gambling and Types of Investors</p> <p>Portfolio Management – Meaning, Evolution, Phases, Role of Portfolio Managers, Advantages of Portfolio Management.</p> <p>Investment Environment in India and factors conducive for investment in India.</p> <p>Portfolio Analysis – Meaning and its Components, Calculation of Expected Return and Risk, Calculation of Covariance, Risk – Return Trade off.</p> <p>Portfolio Selection – Meaning, Feasible Set of Portfolios, Efficient Set of Portfolios, Selection of Optimal Portfolio, Markowitz Model, Limitations of Markowitz Model, Measuring Security Return and Portfolio Return and Risk under Single Index Model and Multi Index Model.</p>
2	Portfolio Management – Valuation
	<p>Portfolio Revision – Meaning, Need, Constraints and Strategies.</p> <p>Portfolio Evaluation – Meaning, Need, Measuring Returns (Sharpe, Treynor and Jensen Ratios) and Decomposition of Performance.</p>
3	Fundamental Analysis
	<p>Economy Analysis – Meaning, Framework, Economic Analysis, Forecasting, Barometric or Indicator Approach, Econometric Model Building and Opportunistic Model Building.</p> <p>Industry Analysis – Concept of Analysis, Industry Life Cycle, Industry Characteristics</p> <p>Company Analysis – Financial Statements, Analysis of Financial Statements, (Practical questions on Debt equity ratios, total debt ratio, proprietary ratios, interest coverage ratio, Profitability ratios related to sales, investment and equity shares Efficiency or Activity Ratios) and Assessment of risk (Leverages)</p>
4	Technical Analysis
	<p>Dow Theory</p> <p>Meaning and Principles of Technical Analysis, Price Chart, Line Chart, Bar Chart, Japanese Candlestick Chart, Trends and Trend Reversals, Chart Patterns, Support and Resistance, Reversal Patterns, Continuation Patterns and Elliot Wave Theory</p> <p>Mathematical Indicators – Calculation of Moving Averages (Simple and Exponential Moving Average), Oscillators and Relative Strength Index</p> <p>Market Indicators</p> <p>Fundamental Analysis V/s Technical Analysis</p>

Sr. No.	Modules / Units
5	Efficient Market Theory & CAPM
	<p>Random Walk Theory</p> <p>The Efficient Market Hypothesis</p> <p>Forms of Market Efficiency</p> <p>Competitive Market Hypothesis</p> <p>CAPM – Fundamental Notions of Portfolio Theory, Assumption of CAPM, Efficient Frontier with Riskless Lending and Borrowing, Capital Market Line, Security Market Line and Pricing of Securities with CAPM.</p> <p>Arbitrage Pricing Theory (APT) – The Return Generating Model, Factors Affecting Stock Return, Expected Return on Stock, APT V/s CAPM.</p>

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1. Elective Courses (EC)

5. Management Control Systems

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Developments in Management Accounting and Control Systems	08
02	Financial Goal Setting	12
03	Responsibility Centres	15
04	Transfer Pricing	15
05	Inflation Accounting	10
Total		60

Sr. No.	Modules / Units
1	Developments in Management Accounting and Control Systems
	<p>–Introduction- The Modern economic environment, Traditional production processes, The background to change, The new manufacturing computer-aided design, Computer-aided manufacturing, Computer-integrated manufacturing, Flexible manufacturing systems, Value chain, Production operations systems and Management strategies, Material requirements planning, Manufacturing Resources Planning, Optimised Production Technology (OPT), ERP, CRM and SCM Just-in-time concept , Total Quality Management (TQM) and Synchronous Manufacturing.</p> <p>Control in special sectors: Scrap Control, Control of R & D – Project Control, Administrative Cost Control and the emphasis on continuous improvement.</p>
2	Financial Goal Setting
	<p>Analysis of Incremental ROI, Sensitivity Analysis, Developing Financial Goals along Organizational Hierarchy.</p> <p>Concept and Technique of Responsibility Budgeting - Analytical framework for Developing Responsibility Budgets - Integrating Responsibility Budgets Integrating Responsibility Budgeting with MBO System.</p>
3	Responsibility Centres
	<p>Introduction to Cost, Revenue, Profit and Investment Centres, Reporting of Responsibility Centre.</p> <p>Performance Measures -Investment Centres/Strategic Business Units, Return on Investment, The problems with ROI and Residual income (RI)</p>
4	Transfer Pricing
	<p>Introduction - Aims and Features, General rules, Cost-based prices, Market-based prices, Marginal cost, Dual pricing, Profit-maximising transfer prices, Negotiated transfer prices and other behavioural considerations</p>
5	Inflation Accounting
	<p>Introduction - Need, Brief History, Methods of Inflation Accounting (Current Purchasing Power and Current Cost Accounting), Inflation Accounting and Corporate Taxation. Financial Reporting to Management under conditions of change in price level.</p>

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1. Elective Courses (EC)

6. Economics Paper – III (Indian Economy)

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Introduction Agricultural Sector	15
02	Industrial Sector	15
03	Service Sector and External Sector	15
04	Money and Banking	15
	Total	60

Sr. No.	Modules / Units
1	Introduction Agricultural Sector
	Introduction Demographic features- Poverty, Income inequality and Unemployment Urbanization and its effects Agricultural Sector Institutional Structure- Land reforms in India Technological changes in agriculture Agricultural pricing and agricultural finance Agricultural marketing National agricultural policy
2	Industrial Sector
	Growth and pattern of industrialization Industrial Policy of 1991. Public sector enterprises and disinvestment policy Small scale sector- problems and prospects
3	Service Sector and External Sector
	Service Sector Nature and scope of service industry Recent trends in Banking industry, Insurance Industry, Healthcare Industry and Tourism Industry External Sector Structure and directions of Foreign trade India's Balance of payments since 1991 FDI, foreign capital and transnational companies in India. Role and impact of SAARC, ASEAN and WTO
4	Money and Banking
	Money market and its features Monetary policy of RBI Progress of commercial banking in India Development of capital markets SEBI and its functions

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Programme at Semester VI
with effect from the Academic Year 2018-2019**

2. Core Courses (EC)

1. Financial Accounting – VII

Modules at a Glance

Sr. No.	Modules	No. of Lectures
01	Final Account for Electricity Company	15
02	Final Accounts for Co-Operative Society: (Co-Operative Housing Society and Consumer Co-Operative Society)	15
03	Investment Accounting (w.r.t. Accounting Standard - 13)	10
04	Mutual Fund	08
05	Introduction to IFRS and Indian Accounting Standards	12
	Total	60

Sr. No.	Modules / Units
1	Final Account for Electricity Company
	Final Accounts as per Double Account System <ul style="list-style-type: none"> • Final Accounts as per Electricity Rules • Receipt & Expenditure on Capital Account • General Balance Sheet • Contingency Reserve Disposal of Surplus (As per Electricity Rules): Norms regarding Disposal of Surplus Replacement of Assets Simple practical problems
2	Final Accounts for Co-Operative Society (Co-Operative Housing Society and Consumer Co-Operative Society)
	Provisions of Maharashtra State Co-Operative Societies Act and rules. Accounting provisions including appropriation to various funds Format of Final Accounts – Form N Simple practical problems on preparation of final accounts of a Co-Operative housing society & Consumer Co-Operative Society
3	Investment Accounting (w.r.t. Accounting Standard- 13)
	For shares (variable income bearing securities) For debentures/Preference. shares (fixed income bearing securities) Accounting for transactions of purchase and sale of investments with ex and cum interest prices and finding cost of investment sold and carrying cost as per weighted average method (Excl. brokerage). Columnar format for investment account.
4	Mutual Fund
	Introduction, Historical Background SEBI Guidelines, Organisation, NAC Scheme, Types of Mutual Fund Schemes, , FOF Scheme, Load or No-Load Scheme, Investment Valuation norms, Pricing of units, Contents of Balance sheet and revenue Account, Evaluation of mutual funds, Disposal of Investments, Recognition of Income, Accounting policies and entries.
5	Introduction to IFRS
	Accounting standards: Role/objectives of accounting standards, Development of accounting standards in India - Requirements of international accounting standards - International organizations engaged in accounting harmonization - IASB - FASB - Role of IASB in developing IFRS, Applicability, Interpretation, Scope and compliance of Accounting Standards Indian Accounting standards (Ind AS) : Introduction, Road map, First time adaptation of Indian Accounting Standard, Conceptual framework Comparison of Ind AS, IFRS and AS IFRS : Introduction, scope Purpose & Objective of financial statement-its Frame work-its assumption, characteristics, element, recognition & measurement., first time adoption of IFRS Convergence of Ind-As and IFRS

**Revised Syllabus of Courses of B.Com.(Accounting and Finance)
Programme at Semester VI
with effect from the Academic Year 2018-2019**

Reference Books

Reference Books
Elective Courses (EC)
Cost Accounting- IV
<ul style="list-style-type: none"> • <i>Lectures on Costing by Swaminathan: S. Chand and Company (P) Ltd., New Delhi</i> • <i>Cost Accounting by C.S. Rayudu, Tata Mc. Grow Hill and Co. Ltd., Mumbai</i> • <i>Cost Accounting by Jawahar Lal and Seema Srivastava, Tata Mc. Grow Hill and Co. Ltd., Mumbai</i> • <i>Cost Accounting by Ravi M. Kishore, Taxmann Ltd., New Delhi</i> • <i>Principles and Practices of Cost Accounting by N.K. Prasad, Book Syndicate Pvt. Ltd., Calcutta</i> • <i>Cost Accounting Theory and Practice by B.K. Bhar, Tata Mc. Grow Hill and Co. Ltd., Mumbai</i> • <i>Cost Accounting Principles and Practice by M.N. Arora, Vikas Publishing House Pvt. Ltd., New Delhi</i> • <i>Advanced Cost and Management Accounting: Problems and Solutions by V.K. Saxena and C.D. Vashist, S. Chand and Company (P) Ltd., New Delhi</i> • <i>Cost Accounting by S.P. Jain and K.L. Narang, Kalyani Publishers, Ludhiana</i> • <i>Modern Cost and Management Accounting by M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi</i>
Financial Management - III
<ul style="list-style-type: none"> • <i>Fundamentals of Financial Management by D. Chandra Bose, PHI Learning Pvt. Ltd., New Delhi</i> • <i>Fundamentals of Financial Management by Bhabotosh Banerjee, PHI Learning Pvt. Ltd., New Delhi</i> • <i>Fundamentals of Financial Management by Vyuptakesh Sharma, Pearson Education, New Delhi</i> • <i>Fundamentals of Financial Management by J.C. Van Horne, Prentice Hall of India, New Delhi</i> • <i>Financial Management: Text and Problems by M.Y. Khan and P.K. Jain, Tata McGraw Hill, New Delhi</i> • <i>Financial Management: Theory and Practice by Prasanna Chandra, Tata McGraw Hill, New Delhi</i> • <i>Financial Management by I.M. Pandey, Vikas Publishing House, New Delhi</i> • <i>Financial Management by C. Paramasivan & T. Subramanian</i> • <i>Financial Management by IM Pandey</i> • <i>Financial Management by Ravi Kishor</i> • <i>Financial Management by Khan & Jain</i>
Taxation - Indirect Taxes - III
<ul style="list-style-type: none"> • <i>Indirect Taxes: Law and Practice by V.S. Datey, Taxmann</i> • <i>Indirect Taxes by V.S. Balchandra, Sultan Chand and Sons, New Delhi</i> • <i>GST Law & practice with Customs & FTP by V.S. Datey, Taxmann</i> • <i>GST by V.S. Datey, Taxmann</i> • <i>GST & customs Law by K.M. Bansal, University Edition</i> • <i>GST Law & practice with Customs & FTP by Vineet Sodhani, Snow White Publications</i> • <i>GST Law & practice with Customs & FTP by Sanjiv Agarwal, Snow White Publications</i> • <i>Indirect taxes(Containing GST, Customs & FTP) by MOhd. Rafi, Bharat Publications</i>
Security Analysis And Portfolio Management
<ul style="list-style-type: none"> • <i>Blake, David 1992, Financial Market Analysis , McGraw Hill London</i> • <i>Francis J.C Investments, Analysis and Management McGraw Hill New York.</i> • <i>Pistolese Clifford Using Technical Analysis Vision Books</i> • <i>Reilly Frank K and Keith Brown Investment Analysis and Portfolio Management.</i>

Reference Books

Management Control Systems

- Anthony & Govindrajana - *Management Control Systems (TATA McGraw Hill), 12th Edition, 2006.*
- Bob Scarlett – *Management Accounting and Performance Evaluation, Oxford Press, 2006 Edition*
- Maciaririllo & Kirby – *Management Control Systems (Prentice Hall India), 2th Edition*

Economics

- *Indian Economic Survey Reports (Annual), Ministry of Finance, Government of India*
- *Indian Economy by Misra and Puri, Himalaya Publishing House - Delhi*
- *Gaurav Dutt & Ashwini Mahajan, (2016) Indian Economy, S.Chand & company PVT LTD New Delhi*
- *A.N. Agarwal – Indian Economy problems of Development and Planning New Age International Publisher*
- *Ruddar Datt K.P.M Sundharam – Indian Economy S. Chand E-co LTD. Delhi*

Core Courses (CC)

Financial Accounting - VII

- *Introduction to Accountancy by T.S. Grewal, S. Chand and Company (P) Ltd., New Delhi*
- *Advance Accounts by Shukla and Grewal, S. Chand and Company (P) Ltd., New Delhi*
- *Advanced Accountancy by R.L Gupta and M. Radhaswamy, S. Chand and Company (P) Ltd., New Delhi*
- *Modern Accountancy by Mukherjee and Hanif, Tata Mc. Grow Hill and Co. Ltd., Mumbai*
- *Financial Accounting by Lesile Chandwichk, Pentice Hall of India Adin Bakley (P) Ltd., New Delhi*
- *Financial Accounting for Management by Dr. Dinesh Harsalekar, Multi-Tech. Publishing Co. Ltd., Mumbai*
- *Financial Accounting by P.C. Tulsian, Pearson Publications, New Delhi*
- *Accounting Principles by R.N. Anthony and J.S. Reece, Richard Irwin, Inc*
- *Financial Accounting by Monga, J.R. Ahuja, Girish Ahuja and Ashok Shehgal, Mayur Paper Back, Noida*
- *Compendium of Statement and Standard of Accounting, ICAI*
- *Indian Accounting Standards, Ashish Bhattacharya, Tata Mc. Grow Hill and Co. Ltd., Mumbai*
- *Financial Accounting by Williams, Tata Mc. Grow Hill and Co. Ltd., Mumbai*
- *Company Accounting Standards by Shrinivasan Anand, Taxman, New Delhi*
- *Financial Accounting by V. Rajasekaran, Pearson Publications, New Delhi*
- *Introduction to Financial Accounting by Horngren, Pearson Publications, New Delhi*
- *Financial Accounting by M. Mukherjee and M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi*
- *Financial Accounting a Managerial Perspective, Varadraj B. Bapat, Mehul Raithatha, Tata McGraw Hill Education Pvt. Ltd., New Delhi*

University of Mumbai



**B.Com. (Accounting and Finance)
Programme
Guidelines for Project Work
at
Third Year
Semester VI**

**Under Choice Based Credit, Grading and
Semester System**

(To be implemented from Academic Year 2018-2019)

Board of Studies-in-Accountancy

Introduction

Inclusion of project work in the course curriculum of the B.Com. (Accounting & Finance) programme is one of the ambitious aspects in the programme structure. The main objective of inclusion of project work is to inculcate the element of research analyse and scientific temperament challenging the potential of learner as regards to his/ her eager to enquire and ability to interpret particular aspect of the study. It is expected that the guiding teacher should undertake the counselling sessions and make the awareness among the learners about the methodology of formulation, preparation and evaluation pattern of the project work.

- There are two modes of preparation of project work
 1. Project work based on research methodology in the study area
 2. Project work based on internship in the study area

Guidelines for preparation of Project Work

1. General guidelines for preparation of project work based on Research Methodology

- The project topic may be undertaken in any area of Elective Courses.
- Each of the learner has to undertake a Project individually under the supervision of a teacher-guide.
- The learner shall decide the topic and title which should be specific, clear and with definite scope in consultation with the teacher-guide concerned.
- University/college shall allot a guiding teacher for guidance to the students based on her / his specialization.
- The project report shall be prepared as per the broad guidelines given below:
 - Font type: Times New Roman
 - Font size: 12-For content, 14-for Title
 - Line Space : 1.5-for content and 1-for in table work
 - Paper Size: A4
 - Margin : in Left-1.5, Up-Down-Right-1
 - The Project Report shall be bounded.
 - The project report should be 80 to 100 pages

Format

1st page (Main Page)

Title of the problem of the Project

**A Project Submitted to
University of Mumbai for partial completion of the degree of
Bachelor in Commerce (Accounting and Finance)
Under the Faculty of Commerce**

By

Name of the Learner

Under the Guidance of

Name of the Guiding Teacher

Name and address of the College

Month and Year

2nd Page

This page to be repeated on 2nd page (i.e. inside after main page)

On separate page

Index

Chapter No. 1 (sub point 1.1, 1.1.1, And so on)	Title of the Chapter	Page No.
Chapter No. 2	Title of the Chapter	
Chapter No. 3	Title of the Chapter	
Chapter No. 4	Title of the Chapter	
Chapter No. 5	Title of the Chapter	

List of tables, if any, with page numbers.

List of Graphs, if any, with page numbers.

List of Appendix, if any, with page numbers.

Abbreviations used:

Structure to be followed to maintain the uniformity in formulation and presentation of Project Work

(Model Structure of the Project Work)

- **Chapter No. 1: Introduction**

In this chapter Selection and relevance of the problem, historical background of the problem, brief profile of the study area, definition/s of related aspects, characteristics, different concepts pertaining to the problem etc can be incorporated by the learner.

- **Chapter No. 2: Research Methodology**

This chapter will include Objectives, Hypothesis, Scope of the study, limitations of the study, significance of the study, Selection of the problem, Sample size, Data collection, Tabulation of data, Techniques and tools to be used, etc can be incorporated by the learner.

- **Chapter No. 3: Literature Review**

This chapter will provide information about studies done on the respective issue. This would specify how the study undertaken is relevant and contribute for value addition in information/ knowledge/ application of study area which ultimately helps the learner to undertake further study on same issue.

- **Chapter No. 4: Data Analysis, Interpretation and Presentation**

This chapter is the core part of the study. The analysis pertaining to collected data will be done by the learner. The application of selected tools or techniques will be used to arrive at findings. In this, table of information's, presentation of graphs etc. can be provided with interpretation by the learner.

- **Chapter No. 5: Conclusions and Suggestions**

In this chapter of project work, findings of work will be covered and suggestion will be enlisted to validate the objectives and hypotheses.

Note: If required more chapters of data analysis can be added.

- **Bibliography**
- **Appendix**

On separate page

Name and address of the college

Certificate

This is to certify that Ms/Mr _____ has worked and duly completed her/his Project Work for the degree of Bachelor in Commerce (Accounting & Finance) under the Faculty of Commerce in the subject of _____ and her/his project is entitled, “ _____ *Title of the Project* _____ ” under my supervision.

I further certify that the entire work has been done by the learner under my guidance and that no part of it has been submitted previously for any Degree or Diploma of any University.

It is her/ his own work and facts reported by her/his personal findings and investigations.



Name and Signature of
Guiding Teacher

Date of submission:

On separate page

Declaration by learner

I the undersigned Miss / Mr. _____ *Name of the learner* _____ here by,
declare that the work embodied in this project work titled “ _____
_____ *Title of the Project* _____ ”,
forms my own contribution to the research work carried out under the guidance of
_____ *Name of the guiding teacher* _____ is a result of my own research work and has
not been previously submitted to any other University for any other Degree/ Diploma
to this or any other University.

Wherever reference has been made to previous works of others, it has been clearly
indicated as such and included in the bibliography.

I, here by further declare that all information of this document has been obtained and
presented in accordance with academic rules and ethical conduct.

Name and Signature of the learner

Certified by

Name and signature of the Guiding Teacher

On separate page

Acknowledgment

(Model structure of the acknowledgement)

To list who all have helped me is difficult because they are so numerous and the depth is so enormous.

I would like to acknowledge the following as being idealistic channels and fresh dimensions in the completion of this project.

I take this opportunity to thank the **University of Mumbai** for giving me chance to do this project.

I would like to thank my **Principal**, _____ for providing the necessary facilities required for completion of this project.

I take this opportunity to thank our **Coordinator** _____, for her moral support and guidance.

I would also like to express my sincere gratitude towards my project guide _____ whose guidance and care made the project successful.

I would like to thank my **College Library**, for having provided various reference books and magazines related to my project.

Lastly, I would like to thank each and every person who directly or indirectly helped me in the completion of the project especially **my Parents and Peers** who supported me throughout my project.

2. Guidelines for Internship based project work

- Minimum 20 days/ 100 hours of Internship with an Organisation/ NGO/ Charitable Organisation/ Private firm.
- The theme of the internship should be based on any study area of the elective courses
- Experience Certificate is Mandatory
- A project report has to be brief in content and must include the following aspects:
 - **Executive Summary:**
A bird's eye view of your entire presentation has to be precisely offered under this category.
 - **Introduction on the Company:**
A Concise representation of company/ organization defining its scope, products/ services and its SWOT analysis.
 - **Statement and Objectives:**
The mission and vision of the organization need to be stated enshrining its broad strategies.
 - **Your Role in the Organisation during the internship:**
The key aspects handled, the department under which you were deployed and brief summary report duly acknowledged by the reporting head.
 - **Challenges:**
The challenges confronted while churning out theoretical knowledge into practical world.
 - **Conclusion:**
A brief overview of your experience and suggestions to bridge the gap between theory and practice.
- The project report based on internship shall be prepared as per the broad guidelines given below:
 - Font type: Times New Roman
 - Font size: 12-For content, 14-for Title
 - Line Space : 1.5-for content and 1-for in table work
 - Paper Size: A4
 - Margin : in Left-1.5, Up-Down-Right-1
 - The Project Report shall be bounded.
 - The project report should be of minimum 50 pages

Evaluation pattern of the project work

The Project Report shall be evaluated in two stages viz.	
• Evaluation of Project Report (Bound Copy)	60 Marks
▪ Introduction and other areas covered	20 Marks
▪ Research Methodology, Presentation, Analysis and interpretation of data	30 Marks
▪ Conclusion & Recommendations	10 Marks
• Conduct of Viva-voce	40 Marks
▪ In the course of Viva-voce, the questions may be asked such as importance / relevance of the study, objective of the study, methodology of the study/ mode of Enquiry (question responses)	10 Marks
▪ Ability to explain the analysis, findings, concluding observations, recommendation, limitations of the Study	20 Marks
▪ Overall Impression (including Communication Skill)	10 Marks

Note:

- *The guiding teacher along with the external evaluator appointed by the University/ College for the evaluation of project shall conduct the viva-voce examination as per the evaluation pattern*

Passing Standard

- Minimum of Grade E in the project component
- In case of failing in the project work, the same project can be revised for ATKT examination.
- Absence of student for viva voce: If any student fails to appear for the viva voce on the date and time fixed by the department such student shall appear for the viva voce on the date and time fixed by the Department, such student shall appear for the viva voce only along with students of the next batch.

**Revised Syllabus of Courses of B.Com. (Accounting and Finance) Programme
at Semester V and VI
with effect from the Academic Year 2018-2019**

Scheme of Evaluation

The performance of the learners will be evaluated in two Components. One component will be the Internal Assessment component carrying 25% marks and the second component will be the Semester-wise End Examination component carrying 75% marks. The allocation of marks for the Internal Assessment and Semester End Examinations will be as shown below:-

A) Internal Assessment: 25 %

**Question Paper Pattern
(Internal Assessment- Courses without Practical Courses)**

Sr. No.	Particular	Marks
1	One class test (20 Marks)	
	Match the Column/ Fill in the Blanks/ Multiple Choice Questions <i>(½ Mark each)</i>	05 Marks
	Answer in One or Two Lines (Concept based Questions) <i>(01 Mark each)</i>	05 Marks
	Answer in Brief (Attempt Any Two of the Three) <i>(05 Marks each)</i>	10 Marks
2	Active participation in routine class instructional deliveries and overall conduct as a responsible learner, mannerism and articulation and exhibit of leadership qualities in organizing related academic activities	05 Marks

B) Semester End Examination: 75 %

- i) Duration: The examination shall be of 2 ½ Hours duration
- ii) Theory question paper pattern
 - There shall be five questions each of 15 marks.
 - All questions shall be compulsory with internal choice within the questions.
 - Question may be subdivided into sub-questions a, b, c... and the allocation of marks depends on the weightage of the topic.

(Detail question paper pattern has been given separately)

❖ Passing Standard

The learners to pass a course shall have to obtain a minimum of 40% marks in aggregate for each course where the course consists of Internal Assessment and Semester End Examination. The learners shall obtain minimum of 40% marks (i.e. 10 out of 25) in the Internal Assessment and 40% marks in Semester End Examination (i.e. 30 Out of 75) separately, to pass the course and minimum of Grade E to pass a particular semester A learner will be said to have passed the course if the learner passes the Internal Assessment and Semester End Examination together.

Question Paper Pattern (Practical Courses)

Maximum Marks: 75

Questions to be set: 05

Duration: 2 1/2 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Objective Questions A. Sub Questions to be asked 10 and to be answered any 08 B. Sub Questions to be asked 10 and to be answered any 07 (*Multiple choice / True or False / Match the columns/Fill in the blanks)	15 Marks
Q-2	Full Length Practical Question OR	15 Marks
Q-2	Full Length Practical Question	15 Marks
Q-3	Full Length Practical Question OR	15 Marks
Q-3	Full Length Practical Question	15 Marks
Q-4	Full Length Practical Question OR	15 Marks
Q-4	Full Length Practical Question	15 Marks
Q-5	A) Theory questions B) Theory questions OR	08 Marks 07 Marks
Q-5	Short Notes To be asked 05 To be answered 03	15 Marks

Note:

Practical question of 15 marks may be divided into two sub questions of 7/8 and 10/5Marks. If the topic demands, instead of practical questions, appropriate theory question may be asked.

Question Paper Pattern (Theoretical Courses)

Maximum Marks: 75

Questions to be set: 05

Duration: 2 1/2 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Objective Questions A) Sub Questions to be asked 10 and to be answered any 08 B) Sub Questions to be asked 10 and to be answered any 07 (*Multiple choice / True or False / Match the columns/Fill in the blanks)	15 Marks
Q-2	Full Length Question OR	15 Marks
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question OR	15 Marks
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question OR	15 Marks
Q-4	Full Length Question	15 Marks
Q-5	A) Theory questions B) Theory questions OR	08 Marks 07 Marks
Q-5	Short Notes To be asked 05 To be answered 03	15 Marks

Note:

Theory question of 15 marks may be divided into two sub questions of 7/8 and 10/5Marks.

SYDENHAM COLLEGE OF COMMERCE & ECONOMICS

B ROAD, CHURCHGATE

MUMBAI-400020

(A Constituent of Dr Homi Bhabha State University)

Bachelor of Management Studies

(BMS) Programme

Course Structure

FYBMS Syllabus

Semester-I&II

Under Choice Based Credit System

To be implemented from Academic Year- 2019-20

Bachelor of Management Studies (BMS) Programme

Under Choice Based Credit, Grading and Semester System

Course Structure

FYBMS

(To be implemented from Academic Year- 2019-2020)

No. of Courses	Semester I	Credits	No. of Courses	Semester II	Credits
I	Ability Enhancement Course (AEC)		I	Ability Enhancement Course (AEC)	
1.	Environmental Science	02	1.	Communication Skills for Effective management	02
II	Core Courses (CC)		II	Core Courses (CC)	
1.	Financial Accounting for Management	03	1.	Marketing Management	03
2.	Elements of Business Law	03	2.	Elements of Industrial Law	03
3.	Business Statistics: Tools and Techniques	03	3.	Mathematical Techniques	03
4.	Understanding Organizational Behaviour	03	4.	Overview of Business Environment	03
5.	Micro Economics	03	5.	Essentials of Management	03
6.	Contemporary Issues in Indian Society I	03	6.	Contemporary Issues in Indian Society II	
Total Credits		20	Total Credits		20

SEMESTER -I

Ability Enhancement Course (AEC)

1. Environmental Science

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Environment and Ecosystem	13
2	Natural Resources and Sustainable Development	13
3	Populations and Emerging Issues of Development	13
4	Urbanisation and Environment	13
5	Reading of Thematic Maps and Map Filling	08
Total		60

Sr. No.	Modules / Units
1	Environment and Ecosystem
	Environment: Meaning, definition, scope and its components; concept of an ecosystem : definition, Characteristics, components and types, functioning and structure; Food Chain and Food Web- Ecological Pyramids - Man and environment relationship; Importance and scope of Environmental Studies.
2	Natural Resources and Sustainable Development
	Meaning and definitions ; Classification and types of resources, factors influencing resource; Resource conservation- meaning and methods- I and non-conventional resources, problems associated with and management of water, forest and energy resources- resource utilization and sustainable development
3	Populations and Emerging Issues of Development
	Population explosion in the world and in India and arising concerns- Demographic Transition Theory - pattern of population growth in the world and in India and associated problems - Measures taken to control population growth in India; Human population and environment- Environment and Human Health – Human Development Index – The World Happiness Index
4	Urbanisation and Environment
	Concept of Urbanisation– Problems of migration and urban environment-

	Changing landuse, crowding and stress on urban resources, degradation of air and water, loss of soil cover impact on biodiversity, Urban heat islands – Emerging
	Smart Cities and safe cities in India - Sustainable Cities
5	Reading of Thematic Maps and Map Filling
	<p>Reading of Thematic Maps(4 Lectures)</p> <p>Located bars, Circles, Pie charts, Isopleths, Choropleth and Flow map, Pictograms - Only reading and interpretation.</p> <p>Map Filling: (4 Lectures)</p> <p>Map filling of World (Environmentally significant features) using point, line and polygon segment.</p> <p>Concept and Calculation of Ecological Footprint</p>

Core Courses (CC)

1. Financial Accounting for Management

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction	15
2	Accounting Transactions	15
3	Depreciation Accounting & Trial Balance	15
4	Final Accounts	15
Total		60

Sr. No.	Modules / Units
1	Introduction
	<ul style="list-style-type: none"> • Meaning and Scope of Accounting: Need and development, definition: Book-Keeping and accounting, Persons interested in accounting, Branches of accounting, Objectives of accounting • Accounting principles: Introductions to Concepts and conventions. • Introduction to Accounting Standards: Meaning and Scope) <ul style="list-style-type: none"> ▪ AS 1 : Disclosure to Accounting Policies ▪ AS 6: Depreciation Accounting. ▪ AS 9: Revenue Recognition. ▪ AS 10: Accounting For Fixed Assets. • International Financial Reporting Standards (IFRS): Introduction to IFRS <ul style="list-style-type: none"> ▪ IAS-1:Presenttion of Financial Statements (Introductory Knowledge) ▪ IAS-2:Inventories (Introductory Knowledge) • Accounting in Computerized Environment: Introduction, Features and application in various areas of Accounting
2	Accounting Transactions
	<ul style="list-style-type: none"> • Accounting transactions: Accounting cycle, Journal, Journal proper, Opening and closing entries, Relationship between journal & ledger: Rules regarding posting: Trial balance: Subsidiary books (Purchase, Purchase Returns, Sales, Sales Returns & cash book –Triple Column), Bank Reconciliation Statement. • Expenditure:Classification of Expenditure- Capital, revenue and Deferred Revenue expenditureUnusual expenses: Effects of error: Criteria test.

	<ul style="list-style-type: none"> • Receipts: Capital receipt, Revenue receipt, distinction between capital receipts and revenue receipts. • Profit or Loss: Revenue profit or loss, capital profit or loss
3	Depreciation Accounting & Trial Balance
	<ul style="list-style-type: none"> • Depreciation accounting: Practical problem based on depreciation using SLM and RBM methods. (Where Provision for depreciation Account not maintained). • Preparation of Trial Balance: Introduction and Preparation of Trial Balance
4	Final Accounts
	<ul style="list-style-type: none"> • Introduction to Final Accounts of a Sole proprietor. • Rectification of errors. • Manufacturing Account, Trading Account, Profit and Loss Account and Balance Sheet. • Preparation and presentation of Final Accounts in horizontal format • Introduction to Schedule 6 of Companies Act ,1956

Core Courses (CC)

2. Elements of Business Law

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Contract Act, 1872 & Sale of Goods Act, 1930	15
2	Negotiable Instrument Act, 1981 & Consumer Protection Act, 1986	15
3	Company Law	15
4	Intellectual Property Rights(IPR)	15
Total		60

Core Courses (CC)

3. Business Statistics: Tools and Techniques

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Statistics	15
2	Measures of Dispersion, Co-Relation and Linear Regression	15
3	Time Series and Index Number	15
4	Probability and Decision Theory	15
Total		60

Sr. No.	Modules / Units
1	Introduction to Statistics
	<ul style="list-style-type: none"> • Introduction: Functions/Scope, Importance, Limitations • Data: Relevance of Data(Current Scenario), Type of data(Primary & Secondary), Primary(Census vs Samples, Method of Collection (In Brief), Secondary(Merits, Limitations, Sources) (In Brief) • Presentation Of Data:Classification – Frequency Distribution – Discrete & Continuous, Tabulation, Graph(Frequency, Bar Diagram, Pie Chart, Histogram, Ogives) • Measures Of Central Tendency:Mean(A.M, Weighted, Combined), Median(Calculation and graphical using Ogives), Mode(Calculation and Graphical using Histogram), Comparative analysis of all measures of Central Tendency
2	Measures of Dispersion, Co-Relation and Linear Regression
	<ul style="list-style-type: none"> • Measures Of Dispersion: Range with C.R(Co-Efficient Of Range), Quartiles & Quartile deviation with CQ (Co-Efficient Of Quartile), Mean Deviation from mean with CMD (Co-Efficient Of Mean Deviation), Standard deviation with CV(Co-Efficient Of Variance), Skewness& Kurtosis (Only concept) • Co-Relation: Karl Pearson, Rank Co-Relation • Linear Regression: Least Square Method
3	Time Series and Index Number

	<ul style="list-style-type: none"> • Time Series: Least Square Method, Moving Average Method, Determination of Season
	<ul style="list-style-type: none"> • Index Number: Simple(unweighted) Aggregate Method, Weighted Aggregate Method, Simple Average of Price Relatives, Weighted Average of Price Relatives, Chain Base Index Numbers, Base Shifting, Splicing and Deflating, Cost of Living Index Number
4	Probability and Decision Theory
	<ul style="list-style-type: none"> • Probability: Concept of Sample space, Concept of Event, Definition of Probability, Addition & Multiplication laws of Probability, Conditional Probability, Bayes' Theorem(Concept only), Expectation & Variance, Concept of Probability Distribution(Only Concept) • Decision Theory: Acts, State of Nature Events, Pay offs, Opportunity loss, Decision Making under Certainty, Decision Making under Uncertainty, • Non-Probability: Maximax, Maximin, Minimax, Regret, Laplace & Hurwicz) • Probabilistics (Decision Making under risk): EMV, EOL, EVPI • Decision Tree

Core Courses (CC)

4. Understanding Organizational Behaviour

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Understanding of Human Nature	15
2	Introduction to Group Behaviour	15
3	Organizational Culture and Motivation at workplace	15
4	Organisational Change, Creativity and Development and Work Stress	15
Total		60

Sr. No.	Modules / Units
1	Understanding of Human Nature
	<ul style="list-style-type: none"> • Individual Behaviour: Concept of a man, individual differences, factors affecting individual differences, Influence of environment • Personality and attitude: Determinants of personality, Personality traits theory, Big five model, Personality traits important for organizational behaviour like authoritarianism, locus of control, Machiavellianism, introversion-extroversion achievement orientation , self – esteem, risk taking, self-monitoring and type A and B personalities, Concept of understanding self through JOHARI WINDOWS, Nature and components of attitude, Functions of attitude, Ways of changing attitude, Reading emotions • Thinking, learning and perceptions: Thinking skills, thinking styles and thinking hat, Managerial skills and development, Learning characteristics, theories of learning (classical conditioning, operant conditioning and social learning approaches), Intelligence, type (IQ, EQ, SQ, at work place), Perception features and factor influencing individual perception, Effects of perceptual error in managerial decision making at work place. (Errors such as Halo effect, stereotyping, prejudice attributional).
2	Introduction to Group Behaviour
	<ul style="list-style-type: none"> • Introduction to Group Behaviour <ul style="list-style-type: none"> ▪ Group Dynamics: Nature, types, group behaviour model (roles, norms, status, process, structures)

	<ul style="list-style-type: none"> ▪ Team effectiveness: nature, types of teams, ways of forming an effective team.
	<ul style="list-style-type: none"> ▪ Setting goals. • Organizational processes and system. <ul style="list-style-type: none"> ▪ Power and politics: nature, bases of power, politics nature, types, causes of organizational politics, political games. ▪ Organizational conflicts and resolution: Conflict features, types, causes leading to organizational conflicts, levels of conflicts, ways to resolve conflicts through five conflicts resolution strategies with outcomes.
3	Organizational Culture and Motivation at workplace
	<ul style="list-style-type: none"> • Organizational Culture: <ul style="list-style-type: none"> ▪ Characteristics of organizational culture. ▪ Types, functions and barriers of organizational culture ▪ Ways of creating and maintaining effective organization culture • Motivation at workplace: Concept of motivation Theories of motivation in an organisational set up. <ul style="list-style-type: none"> ▪ A.Maslow Need Heirachy ▪ F.Hertzberg Dual Factor ▪ Mc.Gregor theory X and theory Y. <p>Waysofmotivating through carrot (positive reinforcement) and stick (negative reinforcement) at workplace.</p>

Core Courses (CC)

5. Micro economics - I

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction	10
2	Demand Analysis	10
3	Supply and Production Decisions and Cost of Production	15
4	Market structure: Perfect competition and Monopoly and Pricing and Output Decisions under Imperfect Competition	15
5	Pricing Practices	10
Total		60

Core Courses (CC)

6. Contemporary Issues in Indian Society I

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Overview of Indian Society	05
2	Concept of Disparity- 1	10
3	Concept of Disparity-2	10
4	The Indian Constitution	10
5	Significant Aspects of Political Processes	10
Total		45

Sr. No.	Modules / Units
1	Overview of Indian Society
	<p>Understand the multi-cultural diversity of Indian society through its demographic composition: population distribution according to religion, caste, and gender;</p> <p>Appreciate the concept of linguistic diversity in relation to the Indian situation;</p> <p>Understand regional variations according to rural, urban and tribal characteristics;</p> <p>Understanding the concept of diversity as difference</p>
2	Concept of Disparity- 1
	<p>Understand the concept of disparity as arising out of stratification and inequality;</p> <p>Explore the disparities arising out of gender with special reference to violence against women, female foeticide (declining sex ratio), and portrayal of women in media; Appreciate the inequalities faced by people with disabilities and understand the issues of people with physical and mental disabilities</p>
3	Concept of Disparity-2
	<p>Examine inequalities manifested due to the caste system and inter-group conflicts arising thereof; Understand inter-group conflicts arising out of communalism;</p> <p>Examine the causes and effects of conflicts arising out of regionalism and linguistic differences</p>
4	The Indian Constitution
	Philosophy of the Constitution as set out in the Preamble; The structure of the

	Constitution-the Preamble, Main Body and Schedules; Fundamental Duties of the
	Indian Citizen; tolerance, peace and communal harmony as crucial values in strengthening the social fabric of Indian society; Basic features of the Constitution
5	Significant Aspects of Political Processes
	The party system in Indian politics; Local self-government in urban and rural areas; the 73rd and 74th Amendments and their implications for inclusive politics; Role and significance of women in politics

SEMESTER -II

Ability Enhancement Course (AEC)

1. Communication Skills for Effective management

Sr. No.	Modules	No. of Lectures
1	Presentation Skills	15
2	Group Communication	15
3	Business Correspondence	15
4	Language and Writing Skills	15
Total		60

Sr. No.	Modules / Units
1	Presentation Skills
	<p>Presentations: (to be tested in tutorials only) 4 Principles of Effective Presentation</p> <p>Effective use of OHP</p> <p>Effective use of Transparencies</p> <p>How to make a Power-Point Presentation</p>
2	Group Communication
	<p>Interviews: Group Discussion Preparing for an Interview, Types of Interviews – Selection, Appraisal, Grievance, Exit</p> <p>Meetings: Need and Importance of Meetings, Conduct of Meeting and Group Dynamics Role of the Chairperson, Role of the Participants, Drafting of Notice, Agenda and Resolutions</p> <p>Conference: Meaning and Importance of Conference Organizing a Conference Modern Methods: Video and Tele – Conferencing</p> <p>Public Relations: Meaning, Functions of PR Department, External and Internal Measures of PR</p>
3	Business Correspondence
	<p>Trade Letters: Order, Credit and Status Enquiry, Collection (just a brief introduction to be given)</p> <p>Only following to be taught in detail:-</p> <p>Letters of Inquiry, Letters of Complaints, Claims, Adjustments Sales Letters,</p>

	<p>promotional leaflets and fliers Consumer Grievance Letters, Letters under Right to Information (RTI) Act</p> <p>[Teachers must provide the students with theoretical constructs wherever necessary in order to create awareness. However students should not be tested on the theory.]</p>
4	Language and Writing Skills
	<p>Reports: Parts, Types, Feasibility Reports, Investigative Reports</p> <p>Summarisation: Identification of main and supporting/sub points Presenting these in a cohesive manner</p>

Core Courses (CC)

1. Marketing Management

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Marketing	15
2	Marketing Environment, Research and Consumer Behaviour	15
3	Marketing Mix	15
4	Segmentation, Targeting and Positioning and Trends In Marketing	15
Total		60

Sr. No.	Modules / Units
1	Introduction to Marketing
	<ul style="list-style-type: none"> • Introduction to Marketing: Definition, features, advantages and scope of marketing. The 4P's and 4C's of marketing. Marketing v/s Selling. Marketing as an activity and function • Concepts of Marketing: Needs, wants and demands, transactions, transfer and exchanges. • Orientations of a firm: Production concept; Product concept; selling concept and marketing concept, social relationship, Holistic marketing.
2	Marketing Environment, Research and Consumer Behaviour
	<ul style="list-style-type: none"> • The micro environment of business: Management structure; Marketing Channels; Markets in which a firm operates; competitors and stakeholders. • Macro environment: Political Factors; Economic Factors; Socio Cultural Factors , Technological Factors (PEST Analysis) • Marketing research: Meaning, features, Importance of marketing research. Types of marketing research: Product research; Sales research; consumer/customer research; production research • MIS: Meaning, features and Importance • Consumer Behaviour: Meaning, feature, importance, factors affecting Consumer Behaviour
3	Marketing Mix
	<ul style="list-style-type: none"> • Marketing mix: Meaning –elements of Marketing Mix.

	<ul style="list-style-type: none"> • Product-product mix-product line lifecycle-product planning – New product development- failure of new product-levels of product. • Branding –Packing and packaging – role and importance • Pricing – objectives- factors influencing pricing policy and Pricing strategy. • Physical distribution – meaning – factor affecting channel selection-types of marketing channels • Promotion – meaning and significance of promotion. Promotion • tools (brief)
4	Segmentation, Targeting and Positioning and Trends In Marketing
	<ul style="list-style-type: none"> • Segmentation – meaning , importance , basis • Targeting – meaning , types • Positioning – meaning – strategies • New trends in marketing – E-marketing , Internet marketing and marketing using Social network • Social marketing/ Relationship marketing

Core Courses (CC)

2. Elements of Industrial Law

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Laws Related to Industrial Relations and Industrial Disputes	15
2	Laws Related to Health, Safety and Welfare	15
3	Social Legislation	15
4	Laws Related to Compensation Management	15
Total		60

Sr. No.	Modules / Units
1	Laws Related to Industrial Relations and Industrial Disputes
	<ul style="list-style-type: none"> • Industrial Disputes Act, 1947: Definition, Authorities, Awards, Settlements, Strikes Lockouts, Lay Offs, Retrenchment and Closure • The Trade Union Act, 1926
2	Laws Related to Health, Safety and Welfare
	<ul style="list-style-type: none"> • The Factory Act 1948: (Provisions related to Health, Safety and Welfare) • The Workmen's Compensation Act, 1923 Provisions: <ul style="list-style-type: none"> ▪ Introduction: The doctrine of assumed risk, The doctrine of Common Employment, The doctrine of Contributory Negligence ▪ Definitions ▪ Employers liability for compensation (S-3 to 13) ▪ Rules as to Compensation (Sec 4 to Sec 9) (14 A & 17)
3	Social Legislation
	<ul style="list-style-type: none"> • Employee State Insurance Act 1948: Definition and Employees Provident Fund • Miscellaneous Provision Act 1948: Schemes, Administration and determination of dues
4	Laws Related To Compensation Management
	<ul style="list-style-type: none"> • The payment of Wages Act 1948: Objectives, Definition, Authorised Deductions

	<ul style="list-style-type: none">• Payment of Bonus Act, 1965
	<ul style="list-style-type: none">• The Payment Of Gratuity Act, 1972

Core Courses (CC)

3. Mathematical Techniques

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Elementary Financial Mathematics	15
2	Matrices and Determinants	15
3	Derivatives and Applications of Derivatives	15
4	Numerical Analysis [Interpolation]	15
Total		60

Sr. No.	Modules / Units
1	Elementary Financial Mathematics
	<ul style="list-style-type: none"> • Simple and Compound Interest: Interest compounded once a year, more than once a year, continuous, nominal and effective rate of interest • Annuity-Present and future value-sinking funds • Depreciation of Assets: Equated Monthly Installments (EMI)- using flat interest rate and reducing balance method. • Functions: Algebraic functions and the functions used in business and economics, Break Even and Equilibrium point. • Permutation and Combination: (Simple problems to be solved with the calculator only)
2	Matrices and Determinants
	<ul style="list-style-type: none"> • Matrices: Some important definitions and some important results. Matrix operation (Addition, scalar multiplication, matrix multiplication, transpose of a matrix) • Determinants of a matrix of order two or three: properties and results of Determinants • Solving a system of linear equations using Cramer's rule • Inverse of a Matrix (up to order three) using ad-joint of a matrix and matrix inversion method • Case study: Input Output Analysis
3	Derivatives and Applications of Derivatives

	<ul style="list-style-type: none"> • Introduction and Concept: Derivatives of constant function, logarithmic functions, polynomial and exponential function • Rules of derivatives: addition, multiplication, quotient • Second order derivatives • Application of Derivatives: Maxima, Minima, Average Cost and Marginal Cost. Total revenue, Marginal revenue, Average revenue. Average and Marginal profit. Price elasticity of demand
4	Numerical Analysis [Interpolation]
	<ul style="list-style-type: none"> • Introduction and concept: Finite differences – forward difference operator – Newton’s forward difference formula with simple examples • Backward Difference Operator. Newton’s backward interpolation formula with simple examples

Core Courses (CC)

4. Overview of Business Environment

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Business Environment	15
2	Political and Legal environment	15
3	Social and Cultural Environment, Technological environment and Competitive Environment	15
4	International Environment	15
Total		60

Sr. No.	Modules / Units
1	Introduction to Business Environment
	<ul style="list-style-type: none"> • Business: Meaning, Definition, Nature & Scope, Types of Business Organizations • Business Environment: Meaning, Characteristics, Scope and Significance, Components of Business Environment • Micro and Macro Environment: Definition, Differentiation, Analysis of Business Environment, SWOT Analysis. • Introduction to Micro-Environment: <ul style="list-style-type: none"> ▪ Internal Environment: Value system, Mission, Objectives, Organizational Structure, Organizational Resources, Company Image, Brand Equity ▪ External Environment: Firm, customers, suppliers, distributors, Competitors, Society • Introduction to Macro Components: Demographic, Natural, Political, Social, Cultural, Economic, Technological, International and Legal)
2	Political and Legal environment
	<ul style="list-style-type: none"> • Political Institutions: Legislature, Executive, Judiciary, Role of government in Business, Legal framework in India. • Economic environment: economic system and economic policies. Concept of Capitalism, Socialism and Mixed Economy • Impact of business on Private sector, Public sector and Joint sector • Sun-rise sectors of India Economy. Challenges of Indian economy.

3	Social and Cultural Environment, Technological environment and Competitive Environment
	<ul style="list-style-type: none"> • Social and Cultural Environment: Nature, Impact of foreign culture on Business, Traditional Values and its Impact, Social Audit - Meaning and Importance of Corporate Governance and Social Responsibility of Business • Technological environment: Features, impact of technology on Business • Competitive Environment: Meaning, Michael Porter's Five Forces Analysis, Competitive Strategies
4	International Environment
	<ul style="list-style-type: none"> • International Environment – <ul style="list-style-type: none"> ▪ GATT/ WTO: Objective and Evolution of GATT, Uruguay round, GATT v/s WTO, Functions of WTO, Pros and Cons of WTO. ▪ Globalization: Meaning, Nature and stages of Globalization, features of Globalization, Foreign Market entry strategies, LPG model. ▪ MNCs: Definition, meaning, merits, demerits, MNCs in India ▪ FDI: Meaning, FDI concepts and functions, Need for FDI in developing countries, Factors influencing FDI, FDI operations in India, • Challenges faced by International Business and Investment Opportunities for Indian Industry.

Core Courses (CC)

5. Essentials of Management

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Business Environment	15
2	Political and Legal environment	15
3	Social and Cultural Environment, Technological environment and Competitive Environment	15
4	International Environment	15
Total		60

Sr. No.	Modules / Units
1	Nature of Management
	<ul style="list-style-type: none"> • Management: Concept, Significance, Role & Skills, Levels of Management, Concepts of PODSCORB, Managerial Grid. • Evolution of Management thoughts, Contribution of F.W Taylor, Henri Fayol and Contingency Approach.
2	Planning and Decision Making
	<ul style="list-style-type: none"> • Planning: Meaning, Importance, Elements, Process, Limitations and MBO. • Decision Making: Meaning, Importance, Process, Techniques of Decision Making.
3	Organizing
	<ul style="list-style-type: none"> • Organizing: Concepts, Structure (Formal & Informal, Line & Staff and Matrix), Meaning, Advantages and Limitations • Departmentation: Meaning, Basis and Significance • Span of Control: Meaning, Graicunas Theory, Factors affecting span of Control Centralization vs Decentralization • Delegation: Authority & Responsibility relationship
4	Directing, Leadership, Co-ordination and Controlling
	<ul style="list-style-type: none"> • Directing: Meaning and Process • Leadership: Meaning, Styles and Qualities of Good Leader • Co-ordination as an Essence of Management

- | | |
|--|--|
| | <ul style="list-style-type: none">• Controlling: Meaning, Process and Techniques• Recent Trends: Green Management & CSR |
|--|--|

Core Courses (CC)

6. Contemporary Issues in Indian Society II

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Globalisation and Indian Society	07
2	Human Rights	10
3	Ecology	10
4	Understanding Stress and Conflict	
5	Managing Stress and Conflict in Contemporary Society	10
Total		45

Sr. No	Modules /Units
1	Globalisation and Indian Society
	Understanding the concepts of liberalization, privatization and globalization;Growth of information technology and communication and its impact manifested in everyday life; Impact of globalization on industry: changes in employment and increasing migration; Changes in agrarian sector due to globalization; rise in corporate farming and increase in farmers' suicides.
2	Human Rights
	Concept of Human Rights; origin and evolution of the concept; The Universal Declaration of Human Rights;Human Rights constituents with special reference to Fundamental Rights stated in the Constitution
3	Ecology
	Importance of Environment Studies in the current developmental context; Understanding concepts of Environment, Ecology and their interconnectedness; Environment as natural capital and connection to quality of human life; Environmental Degradation- causes and impact on human life;Sustainable development- concept and components; poverty and environment
4	Understanding Stress and Conflict
	Causes of stress and conflict in individuals and society; Agents of socialization and the role played by them in developing the individual; Significance of values, ethics

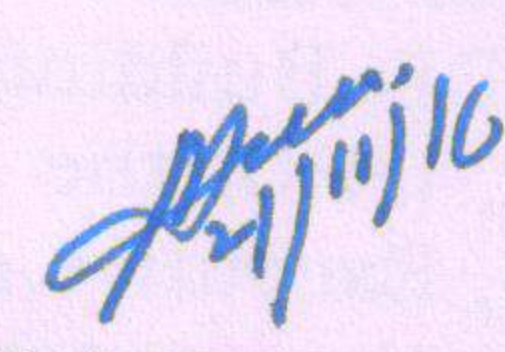
	and prejudices in developing the individual; Stereotyping and prejudice as significant factors in causing conflicts in society. Aggression and violence as the public expression of conflict
5	Managing Stress and Conflict in Contemporary Society
	Types of conflicts and use of coping mechanisms for managing individual stress; Maslow's theory of self-actualisation; Different methods of responding to conflicts in society; Conflict-resolution and efforts towards building peace and harmony in society

UNIVERSITY OF MUMBAI
No. UG/176 of 2016-17

CIRCULAR:-

A reference is invited to the Syllabi relating to the B.Sc. degree course, **vide** this office Circular No. UG/177 of 2011, dated 20th June, 2011 and the Principals of affiliated Colleges in Arts, Science and Commerce are hereby informed that the recommendation made by the Ad-hoc Board of Studies in Information Technology at its meeting held on 4th July, 2016 has been accepted by the Academic Council at its meeting held on 14th July, 2016 **vide** item No. 4.76 and that in accordance therewith, the revised syllabus as per the Choice Based Credit System for F.Y. B.Sc. programme in Information Technology (Sem. I & II), which is available on the University's web site (www.mu.ac.in) and that the same has been brought into force with effect from the academic year 2016-17.

MUMBAI – 400 032
22 November, 2016


(Dr.M.A.Khan)
REGISTRAR

To,

The Principals of the affiliated Colleges in Arts, Science and Commerce.
A.C/4.76/14.07.2016


No. UG/176 -A of 2016

MUMBAI-400 032

22 November, 2016

Copy forwarded with Compliments for information to:-

- 1) The Co-ordinator, Faculty of Science,
- 2) The Chairman, Board of Studies in Information Technology,
- 3) The Professor-cum-Director, Institute of Distance & Open Learning (IDOL)
- 4) The Director, Board of College and University Development,
- 5) The Co-Ordinator, University Computerization Centre,
- 6) The Controller of Examinations.


(Dr.M.A.Khan)
REGISTRAR

PTO..

UNIVERSITY OF MUMBAI



Syllabus for F.Y.B.Sc.

Programme: B.Sc.

Course: Information Technology

with effect from the academic year

2016 – 2017

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Semester – 1			
Course Code	Course Type	Course Title	Credits
USIT101	Core Subject	Imperative Programming	2
USIT102	Core Subject	Digital Electronics	2
USIT103	Core Subject	Operating Systems	2
USIT104	Core Subject	Discrete Mathematics	2
USIT105	Ability Enhancement Skill Course	Communication Skills	2
USIT1P1	Core Subject Practical	Imperative Programming Practical	2
USIT1P2	Core Subject Practical	Digital Electronics Practical	2
USIT1P3	Core Subject Practical	Operating Systems Practical	2
USIT1P4	Core Subject Practical	Discrete Mathematics Practical	2
USIT1P5	Ability Enhancement Skill Course Practical	Communication Skills Practical	2
Total Credits			20

Semester – 2			
Course Code	Course Type	Course Title	Credits
USIT201	Core Subject	Object oriented Programming	2
USIT202	Core Subject	Microprocessor Architecture	2
USIT203	Core Subject	Web Programming	2
USIT204	Core Subject	Numerical and Statistical Methods	2
USIT205	Ability Enhancement Skill Course	Green Computing	2
USIT2P1	Core Subject Practical	Object Oriented Programming Practical	2
USIT2P2	Core Subject Practical	Microprocessor Architecture Practical	2
USIT2P3	Core Subject Practical	Web Programming Practical	2
USIT2P4	Core Subject Practical	Numerical and Statistical Methods Practical	2
USIT2P5	Ability Enhancement Skill Course Practical	Green Computing Practical	2
Total Credits			20

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Preamble

The B.Sc. Information Technology programme was started in 2001 with an aim to make the students employable and impart industry oriented training. The main objectives of the course are:

- to think analytically, creatively and critically in developing robust, extensible and highly maintainable technological solutions to simple and complex problems.
- to apply their knowledge and skills to be employed and excel in IT professional careers and/or to continue their education in IT and/or related post graduate programmes.
- to be capable of managing complex IT projects with consideration of the human, financial and environmental factors.
- to work effectively as a part of a team to achieve a common stated goal.
- to adhere to the highest standards of ethics, including relevant industry and organizational codes of conduct.
- to communicate effectively with a range of audiences both technical and non-technical.
- to develop an aptitude to engage in continuing professional development.

The new syllabus is aimed to achieve the objectives. The syllabus spanning three years covers the industry relevant courses. The students will be ready for the jobs available in different fields like:

- Software Development (Programming)
- Website Development
- Mobile app development
- Embedded Systems Programming
- Embedded Systems Development
- Software Testing
- Networking
- Database Administration
- System Administration
- Cyber Law Consultant
- GIS (Geographic Information Systems)
- IT Service Desk
- Security

And many others

The students will also be trained in communication skills and green computing.

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SEMESTER I

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B. Sc (Information Technology)		Semester – I	
Course Name: Imperative Programming		Course Code: USIT101	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Introduction: Types of Programming languages, History, features and application. Simple program logic, program development cycle, pseudocode statements and flowchart symbols, sentinel value to end a program, programming and user environments, evolution of programming models., desirable program characteristics.</p> <p>Fundamentals: Structure of a program. Compilation and Execution of a Program, Character Set, identifiers and keywords, data types, constants, variables and arrays, declarations, expressions, statements, Variable definition, symbolic constants.</p>	12
II	<p>Operators and Expressions: Arithmetic operators, unary operators, relational and logical operators, assignment operators, assignment operators, the conditional operator, library functions.</p> <p>Data Input and output: Single character input and output, entering input data, scanf function, printf function, gets and puts functions, interactive programming.</p>	12
III	<p>Conditional Statements and Loops: Decision Making Within A Program, Conditions, Relational Operators, Logical Connectives, If Statement, If-Else Statement, Loops: While Loop, Do While, For Loop. Nested Loops, Infinite Loops, Switch Statement</p> <p>Functions: Overview, defining a function, accessing a function, passing arguments to a function, specifying argument data types, function prototypes, recursion, modular programming and functions, standard library of c functions, prototype of a function: foo11al parameter list, return type, function call, block structure, passing arguments to a function: call by reference, call by value.</p>	12
IV	<p>Program structure: Storage classes, automatic variables, external variables, static variables, multifile programs, more library functions,</p> <p>Preprocessor: Features, #define and #include, Directives and Macros</p> <p>Arrays: Definition, processing, passing arrays to functions, multidimensional arrays, arrays and strings.</p>	12
V	<p>Pointers: Fundamentals, declarations, Pointers Address Operators, Pointer Type Declaration, Pointer Assignment, Pointer Initialization, Pointer Arithmetic, Functions and Pointers, Arrays And Pointers, Pointer Arrays, passing functions to other functions</p>	12

	Structures and Unions: Structure Variables, Initialization, Structure Assignment, Nested Structure, Structures and Functions, Structures and Arrays: Arrays of Structures, Structures Containing Arrays, Unions, Structures and pointers.	
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Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Programming with C	Byron Gottfried	Tata McGRAW-Hill	2 nd	1996
2.	Programming Logic and Design	Joyce Farell	Cengage Learning	8 th	2014
3.	“C” Programming”	Brian W. Kernighan and Denis M. Ritchie.	PHI	2 nd	
4.	Let us C	Yashwant P. Kanetkar,	BPB publication		
5.	C for beginners	Madhusudan Mothe	X-Team Series	1 st	2008
6.	21 st Century C	Ben Klemens	OReilly	1 st	2012

B. Sc (Information Technology)		Semester – I	
Course Name: Imperative Programming Practical		Course Code: USIT1P2	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	--

List of Practical: (Can be done in any imperative language)	
1.	Basic Programs:
a.	Write a program to display the message HELLO WORLD.
b.	Write a program to declare some variables of type int, float and double. Assign some values to these variables and display these values.
c.	Write a program to find the addition, subtraction, multiplication and division of two numbers.
2.	Programs on variables:
a.	Write a program to swap two numbers without using third variable.
b.	Write a program to find the area of rectangle, square and circle.
c.	Write a program to find the volume of a cube, sphere, and cylinder.
3.	Conditional statements and loops(basic)
a.	Write a program to enter a number from the user and display the month name. If number >13 then display invalid input using switch case.
b.	Write a program to check whether the number is even or odd.
c.	Write a program to check whether the number is positive, negative or zero.
d.	Write a program to find the factorial of a number.
e.	Write a program to check whether the entered number is prime or not.
f.	Write a program to find the largest of three numbers.
4.	Conditional statements and loops(advanced)
a.	Write a program to find the sum of squares of digits of a number.
b.	Write a program to reverse the digits of an integer.
c.	Write a program to find the sum of numbers from 1 to 100.
d.	Write a programs to print the Fibonacci series.
e.	Write a program to find the reverse of a number.
f.	Write a program to find whether a given number is palindrome or not.
g.	Write a program that solve the quadratic equation $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
h.	Write a program to check whether the entered number is Armstrong or not.
i.	Write a program to count the digit in a number
5.	Programs on patterns:
a.	Programs on different patterns.

6.	Functions:
a.	Programs on Functions.
7.	Recursive functions
a.	Write a program to find the factorial of a number using recursive function.
b.	Write a program to find the sum of natural number using recursive function.
8.	Arrays
a.	Write a program to find the largest value that is stored in the array.
b.	Write a program using pointers to compute the sum of all elements stored in an array.
c.	Write a program to arrange the 'n' numbers stored in the array in ascending and descending order.
d.	Write a program that performs addition and subtraction of matrices.
e.	Write a program that performs multiplication of matrices.
9.	Pointers
a.	Write a program to demonstrate the use of pointers.
b.	Write a program to perform addition and subtraction of two pointer variables.
10.	Structures and Unions
a.	Programs on structures.
b.	Programs on unions.

B. Sc (Information Technology)		Semester – I	
Course Name: Digital Electronics		Course Code: USIT102	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Number System: Analog System, digital system, numbering system, binary number system, octal number system, hexadecimal number system, conversion from one number system to another, floating point numbers, weighted codes binary coded decimal, non-weighted codes Excess – 3 code, Gray code, Alphanumeric codes – ASCII Code, EBCDIC, ISCII Code, Hollerith Code, Morse Code, Teletypewriter (TTY), Error detection and correction, Universal Product Code, Code conversion.</p> <p>Binary Arithmetic: Binary addition, Binary subtraction, Negative number representation, Subtraction using 1's complement and 2's complement, Binary multiplication and division, Arithmetic in octal number system, Arithmetic in hexadecimal number system, BCD and Excess – 3 arithmetic.</p>	12
II	<p>Boolean Algebra and Logic Gates: Introduction, Logic (AND OR NOT), Boolean theorems, Boolean Laws, De Morgan's Theorem, Perfect Induction, Reduction of Logic expression using Boolean Algebra, Deriving Boolean expression from given circuit, exclusive OR and Exclusive NOR gates, Universal Logic gates, Implementation of other gates using universal gates, Input bubbled logic, Assertion level.</p> <p>Minterm, Maxterm and Karnaugh Maps: Introduction, minterms and sum of minterm form, maxterm and Product of maxterm form, Reduction technique using Karnaugh maps – 2/3/4/5/6 variable K-maps, Grouping of variables in K-maps, K-maps for product of sum form, minimize Boolean expression using K-map and obtain K-map from Boolean expression, Quine Mc Cluskey Method.</p>	12
III	<p>Combinational Logic Circuits: Introduction, Multi-input, multi-output Combinational circuits, Code converters design and implementations</p> <p>Arithmetic Circuits: Introduction, Adder, BCD Adder, Excess – 3 Adder, Binary Subtractors, BCD Subtractor, Multiplier, Comparator.</p>	12
IV	<p>Multiplexer, Demultiplexer, ALU, Encoder and Decoder: Introduction, Multiplexer, Demultiplexer, Decoder, ALU, Encoders.</p> <p>Sequential Circuits: Flip-Flop: Introduction, Terminologies used, S-R flip-flop, D flip-fop, JK flip-flop, Race-around condition, Master – slave JK flip-flop, T flip-flop,</p>	12

	conversion from one type of flip-flop to another, Application of flip-flops.	
V	<p>Counters: Introduction, Asynchronous counter, Terms related to counters, IC 7493 (4-bit binary counter), Synchronous counter, Bushing, Type T Design, Type JK Design, Presetable counter, IC 7490, IC 7492, Synchronous counter ICs, Analysis of counter circuits.</p> <p>Shift Register: Introduction, parallel and shift registers, serial shifting, serial-in serial-out, serial-in parallel-out, parallel-in parallel-out, Ring counter, Johnson counter, Applications of shift registers, Pseudo-random binary sequence generator, IC7495, Seven Segment displays, analysis of shift counters.</p>	12

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Digital Electronics and Logic Design	N. G. Palan	Technova		
2.	Make Electronics	Charles Platt	O'Reilly	1 st	2010
3.	Modern Digital Electronics	R. P. Jain	Tata McGraw Hill	3 rd	
4.	Digital Principles and Applications	Malvino and Leach	Tata McGraw Hill		
5.	Digital Electronics: Principles, Devices and Applications,	Anil K. Maini	Wiley		2007

B. Sc (Information Technology)		Semester – I	
Course Name: Digital Electronics Practical		Course Code: USIT1P2	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	--

List of Practical	
1.	Study of Logic gates and their ICs and universal gates:
a.	Study of AND, OR, NOT, XOR, XNOR, NAND and NOR gates
b.	IC 7400, 7402, 7404, 7408, 7432, 7486, 74266
c.	Implement AND, OR, NOT, XOR, XNOR using NAND gates.
d.	Implement AND, OR, NOT, XOR, XNOR using NOR gates.
2.	Implement the given Boolean expressions using minimum number of gates.
a.	Verifying De Morgan's laws.
b.	Implement other given expressions using minimum number of gates.
c.	Implement other given expressions using minimum number of ICs.
3.	Implement combinational circuits.
a.	Design and implement combinational circuit based on the problem given and minimizing using K-maps.
4.	Implement code converters.
a.	Design and implement Binary – to – Gray code converter.
b.	Design and implement Gray – to – Binary code converter.
c.	Design and implement Binary – to – BCD code converter
d.	Design and implement Binary – to – XS-3 code converter
5.	Implement Adder and Subtractor Arithmetic circuits.
a.	Design and implement Half adder and Full adder.
b.	Design and implement BCD adder.
c.	Design and implement XS – 3 adder.
d.	Design and implement binary subtractor.
e.	Design and implement BCD subtractor.
f.	Design and implement XS – 3 subtractor.
6.	Implement Arithmetic circuits.
a.	Design and implement a 2-bit by 2-bit multiplier.
b.	Design and implement a 2-bit comparator.
7.	Implement Encode and Decoder and Multiplexer and Demultiplexers.
a.	Design and implement 8:3 encoder.
b.	Design and implement 3:8 decoder.
c.	Design and implement 4:1 multiplexer. Study of IC 74153, 74157
d.	Design and implement 1:4 demultiplexer. Study of IC 74139
e.	Implement the given expression using IC 74151 8:1 multiplexer.
f.	Implement the given expression using IC 74138 3:8 decoder.

8.	Study of flip-flops and counters.
a.	Study of IC 7473.
b.	Study of IC 7474.
c.	Study of IC 7476.
d.	Conversion of Flip-flops.
e.	Design of 3-bit synchronous counter using 7473 and required gates.
f.	Design of 3-bit ripple counter using IC 7473.
9.	Study of counter ICs and designing Mod-N counters.
a.	Study of IC 7490, 7492, 7493 and designing mod-n counters using these.
b.	Designing mod-n counters using IC 7473 and 7400 (NAND gates)
10.	Design of shift registers and shift register counters.
a.	Design serial – in serial – out, serial – in parallel – out, parallel – in serial – out, parallel – in parallel – out and bidirectional shift registers using IC 7474.
b.	Study of ID 7495.
c.	Implementation of digits using seven segment displays.

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Digital Electronics and Logic Design	N. G. Palan	Technova		
2.	Digital Principles and Applications	Malvino and Leach	Tata McGraw Hill		

B. Sc (Information Technology)		Semester – I	
Course Name: Operating Systems		Course Code: USIT103	
Periods per week 1 Period is 50 minutes		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Introduction: What is an operating system? History of operating system, computer hardware, different operating systems, operating system concepts, system calls, operating system structure.</p> <p>Processes and Threads: Processes, threads, interprocess communication, scheduling, IPC problems.</p>	12
II	<p>Memory Management: No memory abstraction, memory abstraction: address spaces, virtual memory, page replacement algorithms, design issues for paging systems, implementation issues, segmentation.</p> <p>File Systems: Files, directories, file system implementation, file-system management and optimization, MS-DOS file system, UNIX V7 file system, CD ROM file system.</p>	12
III	<p>Input-Output: Principles of I/O hardware, Principles of I/O software, I/O software layers, disks, clocks, user interfaces: keyboard, mouse, monitor, thin clients, power management,</p> <p>Deadlocks: Resources, introduction to deadlocks, the ostrich algorithm, deadlock detection and recovery, deadlock avoidance, deadlock prevention, issues.</p>	12
IV	<p>Virtualization and Cloud: History, requirements for virtualization, type 1 and 2 hypervisors, techniques for efficient virtualization, hypervisor microkernels, memory virtualization, I/O virtualization, Virtual appliances, virtual machines on multicore CPUs, Clouds.</p> <p>Multiple Processor Systems Multiprocessors, multicomputers, distributed systems.</p>	12
V	<p>Case Study on LINUX and ANDROID: History of Unix and Linux, Linux Overview, Processes in Linux, Memory management in Linux, I/O in Linux, Linux file system, security in Linux. Android</p> <p>Case Study on Windows: History of windows through Windows 10, programming windows, system structure, processes and threads in windows, memory management, caching in windows, I/O in windows, Windows NT file system, Windows power management, Security in windows.</p>	12

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Modern Operating Systems	Andrew S. Tanenbaum, Herbert Bos	Pearson	4 th	2014
2.	Operating Systems – Internals and Design Principles	Willaim Stallings	Pearson	8 th	2009
3.	Operating System Concepts	Abraham Silberschatz, Peter B. Galvineg Gagne	Wiley	8 th	
4.	Operating Systems	Godbole and Kahate	McGraw Hill	3 rd	

B. Sc (Information Technology)		Semester – II	
Course Name: Operating Systems Practical		Course Code: USIT1P3	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	--

List of Practical	
1.	Installation of virtual machine software.
2.	Installation of Linux operating system (RedHat / Ubuntu) on virtual machine.
3.	Installation of Windows operating system on virtual machine.
4.	Linux commands: Working with Directories:
a.	pwd, cd, absolute and relative paths, ls, mkdir, rmdir,
b.	file, touch, rm, cp, mv, rename, head, tail, cat, tac, more, less, strings, chmod
5.	Linux commands: Working with files:
a.	ps, top, kill, pkill, bg, fg,
b.	grep, locate, find, locate.
c.	date, cal, uptime, w, whoami, finger, uname, man, df, du, free, whereis, which.
d.	Compression: tar, gzip.
6.	Windows (DOS) Commands – 1
a.	Date, time, prompt, md, cd, rd, path.
b.	Chkdsk, copy, xcopy, format, fidsk, cls, defrag, del, move.
7.	Windows (DOS) Commands – 2
a.	Diskcomp, diskcopy, diskpart, doskey, echo
b.	Edit, fc, find, rename, set, type, ver
8.	Working with Windows Desktop and utilities
a.	Notepad
b.	Wordpad
c.	Paint
d.	Taskbar
e.	Adjusting display resolution
f.	Using the browsers
g.	Configuring simple networking
h.	Creating users and shares
9.	Working with Linux Desktop and utilities
a.	The vi editor.
b.	Graphics
c.	Terminal

d.	Adjusting display resolution
e.	Using the browsers
f.	Configuring simple networking
g.	Creating users and shares
10.	Installing utility software on Linux and Windows

B. Sc. (Information Technology)		Semester – I	
Course Name: Discrete Mathematics		Course Code: USIT104	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Introduction: Variables, The Language of Sets, The Language of Relations and Function</p> <p>Set Theory: Definitions and the Element Method of Proof, Properties of Sets, Disproofs, Algebraic Proofs, Boolean Algebras, Russell’s Paradox and the Halting Problem.</p> <p>The Logic of Compound Statements: Logical Form and Logical Equivalence, Conditional Statements, Valid and Invalid Arguments</p>	12
II	<p>Quantified Statements: Predicates and Quantified Statements, Statements with Multiple Quantifiers, Arguments with Quantified Statements</p> <p>Elementary Number Theory and Methods of Proof: Introduction to Direct Proofs, Rational Numbers, Divisibility, Division into Cases and the Quotient-Remainder Theorem, Floor and Ceiling, Indirect Argument: Contradiction and Contraposition, Two Classical Theorems, Applications in algorithms.</p>	12
III	<p>Sequences, Mathematical Induction, and Recursion: Sequences, Mathematical Induction, Strong Mathematical Induction and the Well-Ordering Principle for the Integers, Correctness of algorithms, defining sequences recursively, solving recurrence relations by iteration, Second order linear homogenous recurrence relations with constant coefficients. general recursive definitions and structural induction.</p> <p>Functions: Functions Defined on General Sets, One-to-One and Onto, Inverse Functions, Composition of Functions, Cardinality with Applications to Computability</p>	12
IV	<p>Relations: Relations on Sets, Reflexivity, Symmetry, and Transitivity, Equivalence Relations, Partial Order Relations</p> <p>Graphs and Trees: Definitions and Basic Properties, Trails, Paths, and Circuits, Matrix Representations of Graphs, Isomorphism’s of Graphs, Trees, Rooted Trees, Isomorphism’s of Graphs, Spanning trees and shortest paths.</p>	12
V	<p>Counting and Probability: Introduction, Possibility Trees and the Multiplication Rule, Possibility Trees and the Multiplication Rule, Counting Elements of Disjoint Sets: The Addition Rule, The Pigeonhole Principle, Counting Subsets of a Set: Combinations, r-Combinations with Repetition Allowed, Probability Axioms and Expected Value, Conditional Probability, Bayes’ Formula, and Independent Events.</p>	12

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Discrete Mathematics with Applications	Sussana S. Epp	Cengage Learning	4 th	2010
2.	Discrete Mathematics, Schaum's Outlines Series	Seymour Lipschutz, Marc Lipson	Tata MCGraw Hill		2007
3.	Discrete Mathematics and its Applications	Kenneth H. Rosen	Tata MCGraw Hill		
4.	Discrete mathematical structures	B Kolman RC Busby, S Ross	PHI		
5.	Discrete structures	Liu	Tata MCGraw Hill		

B. Sc. (Information Technology)		Semester – I	
Course Name: Discrete Mathematics Practical		Course Code: USIT1P4	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	--

List of Practical: Write the programs for the following using SCILAB	
1.	Set Theory
a.	Inclusion Exclusion principle.
b.	Power Sets
c.	Mathematical Induction
2.	Functions and Algorithms
a.	Recursively defined functions
b.	Cardinality
c.	Polynomial evaluation
d.	Greatest Common Divisor
3.	Counting
a.	Sum rule principle
b.	Product rule principle
c.	Factorial
d.	Binomial coefficients
e.	Permutations
f.	Permutations with repetitions
g.	Combinations
h.	Combinations with repetitions
i.	Ordered partitions
j.	Unordered partitions
4.	Probability Theory
a.	Sample space and events
b.	Finite probability spaces
c.	Equiprobable spaces
d.	Addition Principle
e.	Conditional Probability
f.	Multiplication theorem for conditional probability
g.	Independent events
h.	Repeated trials with two outcomes
5.	Graph Theory
a.	Paths and connectivity
b.	Minimum spanning tree
c.	Isomorphism

6.	Directed Graphs
a.	Adjacency matrix
b.	Path matrix
7.	Properties of integers
a.	Division algorithm
b.	Primes
c.	Euclidean algorithm
d.	Fundamental theorem of arithmetic
e.	Congruence relation
f.	Linear congruence equation
8.	Algebraic Systems
a.	Properties of operations
b.	Roots of polynomials
9.	Boolean Algebra
a.	Basic definitions in Boolean Algebra
b.	Boolean algebra as lattices
10.	Recurrence relations
a.	Linear homogeneous recurrence relations with constant coefficients
b.	Solving linear homogeneous recurrence relations with constant coefficients
c.	Solving general homogeneous linear recurrence relations

B. Sc (Information Technology)		Semester – I	
Course Name: Communication Skills		Course Code: USIT105	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>The Seven Cs of Effective Communication: Completeness, Conciseness, Consideration, Concreteness, Clarity, Courtesy, Correctness</p> <p>Understanding Business Communication: Nature and Scope of Communication, Non-verbal Communication, Cross-cultural communication, Technology-enabled Business Communication</p>	12
II	<p>Writing Business Messages and Documents: Business writing, Business Correspondence, Instructions Business Reports and Proposals, Career building and Resume writing.</p> <p>Developing Oral Communication Skills for Business: Effective Listening, Business Presentations and Public Speaking, Conversations, Interviews</p>	12
III	<p>Developing Oral Communication Skills for Business: Meetings and Conferences, Group Discussions and Team Presentations, Team Briefing,</p> <p>Understanding Specific Communication Needs: Communication across Functional Areas</p>	12
IV	<p>Understanding Specific Communication Needs: Corporate Communication, Persuasive Strategies in Business Communication, Ethics in Business Communication, Business Communication Aids</p>	12
V	<p>Presentation Process: Planning the presentations, executing the presentations, Impressing the audience by performing, Planning stage: Brainstorming, mind maps / concept maps, executing stage: chunking theory, creating outlines, Use of templates. Adding graphics to your presentation: Visual communication, Impress stage: use of font, colour, layout, Importance of practice and performance.</p>	12

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Business Communication	Edited by Meenakshi Raman and Prakash Singh	Oxford University Press	Second	
2.	Professional Communication	Aruna Koneru	Tata McGraw Hill		

3.	Strategies for improving your business communication	Prof. M. S. Rao	Shroff publishers and distributors		2016
4.	Business Communication	Dr. Rishipal and Dr. Jyoti Sheoran	SPD		2014
5.	Graphics for Learning: Proven Guidelines for Planning, Designing, and Evaluating Visuals in Training Materials	Ruth C. Clark, Chopeta Lyons,	Pfeiffer, Wiley		2011
6.	Basic Business Communication: Skills for Empowering the Internet Generation	Lesikar Raymond V and Marie E. Flatley.	Tata McGraw-Hill	10 th	2005
7.	Nonverbal Communication: Notes on the Visual Perception of Human Relations	Ruesh, Jurgen and Weldon Kees	University of California Press		1966
8.	Business Communication Today	Bovee, Courtland L.; Thill, John V.	Pearson Education Ltd.		2015
9.	Communication Skills	Dr. Nageshwar Rao Dr. Rajendra P. Das	Himalaya Publishing House		

B. Sc (Information Technology)		Semester – I	
Course Name: Communication Skills Practical		Course Code: USIT1P5	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	--

List of Practical Questions:	
1.	Communication Origami, Guessing Game, Guessing the emotion
2.	Body Language, Follow All Instructions, Effective Feedback Skills
3.	The Name Game, Square Talk (Effective Communication), Room 101 (Influential and persuasive skills)
4.	Back to Back Communication, Paper Shapes (Importance of two-way communication), Memory Test(Presentation Skills)
5.	Exercises on Communication Principles
6.	Exercises on communication icebreakers
7.	Communication exercises
	For the following practicals, Microsoft Office, Open Office, Libre Office or any other software suite can be used.
8.	Use of word processing tools for communication
9.	Use of spreadsheet tools for communication
10.	Use of presentation tools for communication

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SEMESTER II

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B. Sc. (Information Technology)		Semester – II	
Course Name: Object Oriented Programming		Course Code: USIT201	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	Object Oriented Methodology: Introduction, Advantages and Disadvantages of Procedure Oriented Languages, what is Object Oriented? What is Object Oriented Development? Object Oriented Themes, Benefits and Application of OOPS. Principles of OOPS: OOPS Paradigm, Basic Concepts of OOPS: Objects, Classes, Data Abstraction and Data Encapsulation, Inheritance, Polymorphism, Dynamic Binding, Message Passing	12
II	Classes and Objects: Simple classes (Class specification, class members accessing), Defining member functions, passing object as an argument, Returning object from functions, friend classes, Pointer to object, Array of pointer to object. Constructors and Destructors: Introduction, Default Constructor, Parameterized Constructor and examples, Destructors	12
III	Polymorphism: Concept of function overloading, overloaded operators, overloading unary and binary operators, overloading comparison operator, overloading arithmetic assignment operator, Data Conversion between objects and basic types, Virtual Functions: Introduction and need, Pure Virtual Functions, Static Functions, this Pointer, abstract classes, virtual destructors.	12
IV	Program development using Inheritance: Introduction, understanding inheritance, Advantages provided by inheritance, choosing the access specifier, Derived class declaration, derived class constructors, class hierarchies, multiple inheritance, multilevel inheritance, containership, hybrid inheritance. Exception Handling: Introduction, Exception Handling Mechanism, Concept of throw & catch with example	12
V	Templates: Introduction, Function Template and examples, Class Template and examples. Working with Files: Introduction, File Operations, Various File Modes, File Pointer and their Manipulation	12

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Object Oriented Analysis and Design	Timothy Budd	TMH	3 rd	2012
2.	Mastering C++	K R Venugopal, Rajkumar Buyya, T Ravishankar	Tata McGraw Hill	2 nd Edition	2011

3.	C++ for beginners	B. M. Hirwani	SPD		2013
4.	Effective Modern C++	Scott Meyers	SPD		
5.	Object Oriented Programming with C++	E. Balagurusamy	Tata McGraw Hill	4 th	
6.	Learning Python	Mark Lutz	O' Reilly	5 th	2013
7.	Mastering Object Oriented Python	Steven F. Lott	Pact Publishing		2014

B. Sc. (Information Technology)		Semester – II	
Course Name: Object Oriented Programming Practical		Course Code: USIT2P1	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	--

List of Practical: To be implemented using object oriented language	
1.	Classes and methods
a.	Design an employee class for reading and displaying the employee information, the getInfo() and displayInfo() methods will be used respectively. Where getInfo() will be private method
b.	Design the class student containing getData() and displayData() as two of its methods which will be used for reading and displaying the student information respectively. Where getData() will be private method.
c.	Design the class Demo which will contain the following methods: readNo(), factorial() for calculating the factorial of a number, reverseNo() will reverse the given number, isPalindrome() will check the given number is palindrome, isArmstrong() which will calculate the given number is armStrong or not. Where readNo() will be private method.
d.	Write a program to demonstrate function definition outside class and accessing class members in function definition.
2.	Using friend functions.
a.	Write a friend function for adding the two complex numbers, using a single class
b.	Write a friend function for adding the two different distances and display its sum, using two classes.
c.	Write a friend function for adding the two matrix from two different classes and display its sum.
3.	Constructors and method overloading.
a.	Design a class Complex for adding the two complex numbers and also show the use of constructor.
b.	Design a class Geometry containing the methods area() and volume() and also overload the area() function .
c.	Design a class StaticDemo to show the implementation of static variable and static function.
4.	Operator Overloading
a.	Overload the operator unary(-) for demonstrating operator overloading.
b.	Overload the operator + for adding the timings of two clocks, And also pass objects as an argument.
c.	Overload the + for concatenating the two strings. For e.g “Py” + “thon” = Python
5.	Inheritance
a.	Design a class for single level inheritance using public and private type derivation.
b.	Design a class for multiple inheritance.
c.	Implement the hierarchical inheritance.

6.	Virtual functions and abstract classes
a.	Implement the concept of method overriding.
b.	Show the use of virtual function
c.	Show the implementation of abstract class.
7.	String handling
a.	String operations for string length , string concatenation
b.	String operations for string reverse, string comparison,
c.	Console formatting functions.
8.	Exception handling
a.	Show the implementation of exception handling
b.	Show the implementation for exception handling for strings
c.	Show the implementation of exception handling for using the pointers.
9.	File handling
a.	Design a class FileDemo open a file in read mode and display the total number of words and lines in the file.
b.	Design a class to handle multiple files and file operations
c.	Design a editor for appending and editing the files
10.	Templates
a.	Show the implementation for the following
b.	Show the implementation of template class library for swap function.
c.	Design the template class library for sorting ascending to descending and vice-versa

B. Sc. (Information Technology)		Semester – II	
Course Name: Microprocessor Architecture		Course Code: USIT202	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Microprocessor, microcomputers, and Assembly Language: Microprocessor, Microprocessor Instruction Set and Computer Languages, From Large Computers to Single-Chip Microcontrollers, Applications.</p> <p>Microprocessor Architecture and Microcomputer System: Microprocessor Architecture and its operation's, Memory, I/O Devices, Microcomputer System, Logic Devices and Interfacing, Microprocessor-Based System Application.</p> <p>8085 Microprocessor Architecture and Memory Interface: Introduction, 8085 Microprocessor unit, 8085-Based Microcomputer, Memory Interfacing, Interfacing the 8155 Memory Segment, Illustrative Example: Designing Memory for the MCTS Project, Testing and Troubleshooting Memory Interfacing Circuit, 8085-Based Single-Board microcomputer.</p>	12
II	<p>Interfacing of I/O Devices Basic Interfacing concepts, Interfacing Output Displays, Interfacing Input Devices, Memory Mapped I/O, Testing and Troubleshooting I/O Interfacing Circuits.</p> <p>Introduction to 8085 Assembly Language Programming: The 8085 Programming Model, Instruction Classification, Instruction, Data and Storage, Writing assembling and Execution of a simple program, Overview of 8085 Instruction Set, Writing and Assembling Program.</p> <p>Introduction to 8085 Instructions: Data Transfer Operations, Arithmetic Operations, Logic Operation, Branch Operation, Writing Assembly Languages Programs, Debugging a Program.</p>	12
III	<p>Programming Techniques With Additional Instructions: Programming Techniques: Looping, Counting and Indexing, Additional Data Transfer and 16-Bit Arithmetic Instructions, Arithmetic Instruction Related to Memory, Logic Operations: Rotate, Logics Operations: Compare, Dynamic Debugging.</p> <p>Counters and Time Delays: Counters and Time Delays, Illustrative Program: Hexadecimal Counter, Illustrative Program: zero-to-nine (Modulo Ten) Counter, Generating Pulse Waveforms, Debugging Counter and Time-Delay Programs.</p> <p>Stacks and Sub-Routines: Stack, Subroutine, Restart, Conditional Call, Return Instructions, Advanced Subroutine concepts.</p>	12

IV	<p>Code Conversion, BCD Arithmetic, and 16-Bit Data Operations: BCD-to-Binary Conversion, Binary-to-BCD Conversion, BCD-to-Seven-Segment-LED Code Conversion, Binary-to-ASCII and ASCII-to-Binary Code Conversion, BCD Addition, BCD Subtraction, Introduction To Advanced Instructions and Applications, Multiplication, Subtraction With Carry.</p> <p>Software Development System and Assemblers: Microprocessors-Based Software Development system, Operating System and Programming Tools, Assemblers and Cross-Assemblers, Writing Program Using Cross Assemblers.</p> <p>Interrupts: The 8085 Interrupt, 8085 Vectored Interrupts, Restart as S/W Instructions, Additional I/O Concepts and processes.</p>	12
V	<p>The Pentium and Pentium Pro microprocessors: Introduction, Special Pentium registers, Memory management, Pentium instructions, Pentium Pro microprocessor, Special Pentium Pro features.</p> <p>Core 2 and later Microprocessors: Introduction, Pentium II software changes, Pentium IV and Core 2, i3, i5 and i7.</p> <p>SUN SPARC Microprocessor: Architecture, Register file, data types and instruction format</p>	12

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Microprocessors Architecture, Programming and Applications with the 8085.	Ramesh Gaonkar	PENRAM	Fifth	2012
2.	Computer System Architecture	M. Morris Mano	PHI		1998
3.	Structured Computer Organization	Andrew C. Tanenbaum	PHI		

B. Sc. (Information Technology)		Semester – II	
Course Name: Microprocessor Architecture Practical		Course Code: USIT2P2	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	--

List of Practical	
1.	Perform the following Operations related to memory locations.
a.	Store the data byte 32H into memory location 4000H.
b.	Exchange the contents of memory locations 2000H and 4000H
2.	Simple assembly language programs.
a.	Subtract the contents of memory location 4001H from the memory location 2000H and place the result in memory location 4002H.
b.	Subtract two 8-bit numbers.
c.	Add the 16-bit number in memory locations 4000H and 4001H to the 16-bit number in memory locations 4002H and 4003H. The most significant eight bits of the two numbers to be added are in memory locations 4001H and 4003H. Store the result in memory locations 4004H and 4005H with the most significant byte in memory location 4005H.
d.	Add the contents of memory locations 40001H and 4001H and place the result in the memory locations 4002H and 4003H.
e.	Subtract the 16-bit number in memory locations 4002H and 4003H from the 16-bit number in memory locations 4000H and 4001H. The most significant eight bits of the two numbers are in memory locations 4001H and 4003H. Store the result in memory locations 4004H and 4005H with the most significant byte in memory location 4005H.
f.	Find the 1's complement of the number stored at memory location 4400H and store the complemented number at memory location 4300H.
g.	Find the 2's complement of the number stored at memory location 4200H and store the complemented number at memory location 4300H.
3.	Packing and unpacking operations.
a.	Pack the two unpacked BCD numbers stored in memory locations 4200H and 4201H and store result in memory location 4300H. Assume the least significant digit is stored at 4200H.
b.	Two digit BCD number is stored in memory location 4200H. Unpack the BCD number and store the two digits in memory locations 4300H and 4301H such that memory location 4300H will have lower BCD digit.
4.	Register Operations.
a.	Write a program to shift an eight bit data four bits right. Assume that data is in register C.
b.	Program to shift a 16-bit data 1 bit left. Assume data is in the HL register pair
c.	Write a set of instructions to alter the contents of flag register in 8085.
d.	Write a program to count number of 1's in the contents of D register and store the count in the B register.

5.	Multiple memory locations.
a.	Calculate the sum of series of numbers. The length of the series is in memory location 4200H and the series begins from memory location 4201H. a. Consider the sum to be 8 bit number. So, ignore carries. Store the sum at memory location 4300H. b. Consider the sum to be 16 bit number. Store the sum at memory locations 4300H and 4301H
b.	Multiply two 8-bit numbers stored in memory locations 2200H and 2201H by repetitive addition and store the result in memory locations 2300H and 2301H.
c.	Divide 16 bit number stored in memory locations 2200H and 2201H by the 8 bit number stored at memory location 2202H. Store the quotient in memory locations 2300H and 2301H and remainder in memory locations 2302H and 2303H.
d.	Find the number of negative elements (most significant bit 1) in a block of data. The length of the block is in memory location 2200H and the block itself begins in memory location 2201H. Store the number of negative elements in memory location 2300H
e.	Find the largest number in a block of data. The length of the block is in memory location 2200H and the block itself starts from memory location 2201H. Store the maximum number in memory location 2300H. Assume that the numbers in the block are all 8 bit unsigned binary numbers.
6.	Calculations with respect to memory locations.
a.	Write a program to sort given 10 numbers from memory location 2200H in the ascending order.
b.	Calculate the sum of series of even numbers from the list of numbers. The length of the list is in memory location 2200H and the series itself begins from memory location 2201H. Assume the sum to be 8 bit number so you can ignore carries and store the sum at memory location 2Sample problem:
c.	Calculate the sum of series of odd numbers from the list of numbers. The length of the list is in memory location 2200H and the series itself begins from memory location 2201H. Assume the sum to be 16-bit. Store the sum at memory locations 2300H and 2301H.
d.	Find the square of the given numbers from memory location 6100H and store the result from memory location 7000H
e.	Search the given byte in the list of 50 numbers stored in the consecutive memory locations and store the address of memory location in the memory locations 2200H and 2201H. Assume byte is in the C register and starting address of the list is 2000H. If byte is not found store 00 at 2200H and 2201H
f.	Two decimal numbers six digits each, are stored in BCD package form. Each number occupies a sequence of byte in the memory. The starting address of first number is 6000H Write an assembly language program that adds these two numbers and stores the sum in the same format starting from memory location 6200H
g.	Add 2 arrays having ten 8-bit numbers each and generate a third array of result. It is necessary to add the first element of array 1 with the first element of array-2 and so on. The starting addresses of array 1, array2 and array3 are 2200H, 2300H and 2400H, respectively

7.	Assembly programs on memory locations.
a.	Write an assembly language program to separate even numbers from the given list of 50 numbers and store them in the another list starting from 2300H. Assume starting address of 50 number list is 2200H
b.	Write assembly language program with proper comments for the following: A block of data consisting of 256 bytes is stored in memory starting at 3000H. This block is to be shifted (relocated) in memory from 3050H onwards. Do not shift the block or part of the block anywhere else in the memory.
c.	Add even parity to a string of 7-bit ASCII characters. The length of the string is in memory location 2040H and the string itself begins in memory location 2041H. Place even parity in the most significant bit of each character.
d.	A list of 50 numbers is stored in memory, starting at 6000H. Find number of negative, zero and positive numbers from this list and store these results in memory locations 7000H, 7001H, and 7002H respectively
e.	Write an assembly language program to generate fibonacci number.
f.	Program to calculate the factorial of a number between 0 to 8.
8.	String operations in assembly programs.
a.	Write an 8085 assembly language program to insert a string of four characters from the tenth location in the given array of 50 characters
b.	Write an 8085 assembly language program to delete a string of 4 characters from the tenth location in the given array of 50 characters.
c.	Multiply the 8-bit unsigned number in memory location 2200H by the 8-bit unsigned number in memory location 2201H. Store the 8 least significant bits of the result in memory location 2300H and the 8 most significant bits in memory location 2301H.
d.	Divide the 16-bit unsigned number in memory locations 2200H and 2201H (most significant bits in 2201H) by the B-bit unsigned number in memory location 2300H store the quotient in memory location 2400H and remainder in 2401H
e.	DAA instruction is not present. Write a sub routine which will perform the same task as DAA.
9.	Calculations on memory locations.
a.	To test RAM by writing '1' and reading it back and later writing '0' (zero) and reading it back. RAM addresses to be checked are 40FFH to 40FFH. In case of any error, it is indicated by writing 01H at port 10
b.	Arrange an array of 8 bit unsigned no in descending order
c.	Transfer ten bytes of data from one memory to another memory block. Source memory block starts from memory location 2200H where as destination memory block starts from memory location 2300H
d.	Write a program to find the Square Root of an 8 bit binary number. The binary number is stored in memory location 4200H and store the square root in 4201H.
e.	Write a simple program to Split a HEX data into two nibbles and store it in memory
10.	Operations on BCD numbers.
a.	Add two 4 digit BCD numbers in HL and DE register pairs and store result in memory locations, 2300H and 2301H. Ignore carry after 16 bit.
b.	Subtract the BCD number stored in E register from the number stored in the D register
c.	Write an assembly language program to multiply 2 BCD numbers

Books and References:

Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Microprocessors Architecture, Programming and Applications with the 8085.	Ramesh Gaonkar	PENRAM	Fifth	2012
2.	8080A/8085 Assembly Language Programming	Lance A. Leventhel	Osborne		1978

B. Sc (Information Technology)		Semester – II	
Course Name: Web Programming		Course Code: USIT203	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Internet and the World Wide Web: What is Internet? Introduction to internet and its applications, E-mail, telnet, FTP, e-commerce, video conferencing, e-business. Internet service providers, domain name server, internet address, World Wide Web (WWW): World Wide Web and its evolution, uniform resource locator (URL), browsers – internet explorer, Netscape navigator, opera, Firefox, chrome, Mozilla. search engine, web saver – apache, IIS, proxy server, HTTP protocol</p> <p>HTML5: Introduction, Why HTML5? Formatting text by using tags, using lists and backgrounds, Creating hyperlinks and anchors. Style sheets, CSS formatting text using style sheets, formatting paragraphs using style sheets.</p>	12
II	<p>HTML5 Page layout and navigation: Creating navigational aids: planning site organization, creating text based navigation bar, creating graphics based navigation bar, creating graphical navigation bar, creating image map, redirecting to another URL, creating division based layouts: HTML5 semantic tags, creating divisions, creating HTML5 semantic layout, positioning and formatting divisions.</p> <p>HTML5 Tables, Forms and Media: Creating tables: creating simple table, specifying the size of the table, specifying the width of the column, merging table cells, using tables for page layout, formatting tables: applying table borders, applying background and foreground fills, changing cell padding, spacing and alignment, creating user forms: creating basic form, using check boxes and option buttons, creating lists, additional input types in HTML5, Incorporating sound and video: audio and video in HTML5, HTML multimedia basics, embedding video clips, incorporating audio on web page.</p>	12
III	<p>Java Script: Introduction, Client-Side JavaScript, Server-Side JavaScript, JavaScript Objects, JavaScript Security,</p> <p>Operators: Assignment Operators, Comparison Operators, Arithmetic Operators, % (Modulus), ++(Increment), --(Decrement), -(Unary Negation), Logical Operators, Short-Circuit Evaluation, String Operators, Special Operators, ?: (Conditional operator), , (Comma operator), delete, new, this, void</p> <p>Statements: Break, comment, continue, delete, do...while, export, for, for...in, function, if...else, import, labelled, return, switch, var, while, with,</p>	12

	<p>Core JavaScript (Properties and Methods of Each) : Array, Boolean, Date, Function, Math, Number, Object, String, RegExp</p> <p>Document and its associated objects: document, Link, Area, Anchor, Image, Applet, Layer</p> <p>Events and Event Handlers : General Information about Events, Defining Event Handlers, event, onAbort, onBlur, onChange, onClick, onDblClick, onDragDrop, onError, onFocus, onKeyDown, onKeyPress, onKeyUp, onLoad, onMouseDown, onMouseMove, onMouseOut, onMouseOver, onMouseUp, onMove, onReset, onResize, onSelect, onSubmit, onUnload</p>	
IV	<p>PHP:</p> <p>Why PHP and MySQL? Server-side scripting, PHP syntax and variables, comments, types, control structures, branching, looping, termination, functions, passing information with PHP, GET, POST, formatting form variables, superglobal arrays, strings and string functions, regular expressions, arrays, number handling, basic PHP errors/problems</p>	12
V	<p>Advanced PHP and MySQL : PHP/MySQL Functions, Integrating web forms and databases, Displaying queries in tables, Building Forms from queries, String and Regular Expressions, Sessions, Cookies and HTTP, E-Mail</p>	12

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Web Design The Complete Reference	Thomas Powell	Tata McGraw Hill		-
2.	HTML5 Step by Step	Faithe Wempen	Microsoft Press		2011
3.	PHP 5.1 for Beginners	Ivan Bayross Sharanam Shah,	SPD		2013
4.	PHP Project for Beginners	SharanamShah, Vaishali Shah	SPD		2015
5.					
6.	PHP 6 and MySQL Bible	Steve Suehring, Tim Converse, Joyce Park	Wiley		2009
7.	Head First HTML 5 programming	Eric Freeman	O'Reilly		2013
8.	JavaScript 2.0: The Complete Reference	Thomas Powell and Fritz Schneider	Tata McGraw Hill	2 nd	

B. Sc. (Information Technology)		Semester – II	
Course Name: Web Programming Practical		Course Code: USIT2P3	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	--

List of Practical	
1.	Use of Basic Tags
a.	Design a web page using different text formatting tags.
b.	Design a web page with links to different pages and allow navigation between web pages.
c.	Design a web page demonstrating all Style sheet types
2.	Image maps, Tables, Forms and Media
a.	Design a web page with Imagemaps.
b.	Design a web page demonstrating different semantics
c.	Design a web page with different tables. Design a webpages using table so that the content appears well placed.
d.	Design a web page with a form that uses all types of controls.
e.	Design a web page embedding with multimedia features.
3.	Java Script
a.	Using JavaScript design, a web page that prints factorial/Fibonacci series/any given series.
b.	Design a form and validate all the controls placed on the form using Java Script.
c.	Write a JavaScript program to display all the prime numbers between 1 and 100.
a.	Write a JavaScript program to accept a number from the user and display the sum of its digits.
d.	Write a program in JavaScript to accept a sentence from the user and display the number of words in it. (Do not use split () function).
e.	Write a java script program to design simple calculator.
4.	Control and looping statements and Java Script references
a.	Design a web page demonstrating different conditional statements.
b.	Design a web page demonstrating different looping statements.
c.	Design a web page demonstrating different Core JavaScript references (Array, Boolean, Date, Function, Math, Number, Object, String, regExp).
5.	Basic PHP I
a.	Write a PHP Program to accept a number from the user and print it factorial.
b.	Write a PHP program to accept a number from the user and print whether it is prime or not.
6.	Basic PHP II
a.	Write a PHP code to find the greater of 2 numbers. Accept the no. from the user.

b.	Write a PHP program to display the following Binary Pyramid: <pre> 1 0 1 1 0 1 0 1 0 1 </pre>
7. String Functions and arrays	
a.	Write a PHP program to demonstrate different string functions.
b.	Write a PHP program to create one dimensional array.
8. PHP and Database	
a.	Write a PHP code to create: <ul style="list-style-type: none"> • Create a database College • Create a table Department (Dname, Dno, Number_Of_faculty)
b.	Write a PHP program to create a database named “College”. Create a table named “Student” with following fields (sno, sname, percentage). Insert 3 records of your choice. Display the names of the students whose percentage is between 35 to 75 in a tabular format.
c.	Design a PHP page for authenticating a user.
9. Email	
a.	Write a program to send email with attachment.
10. Sessions and Cookies	
a.	Write a program to demonstrate use of sessions and cookies.

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	HTML5 Step by Step	Faithe Wempen	Microsoft Press		2011
2.	JavaScript 2.0: The Complete Reference	Thomas Powell and Fritz Schneider	Tata McGraw Hill	2 nd	
3.	PHP 6 and MySQL Bible	Steve Suehring, Tim Converse, Joyce Park	Wiley		2009
4.	PHP 5.1 for Beginners	Ivan Bayross Sharanam Shah,	SPD		2013
5.	PHP Project for Beginners	SharanamShah, Vaishali Shah	SPD		2015
6.	Murach’s PHP and MySQL	Joel Murach Ray Harris	SPD		2011

B. Sc. (Information Technology)		Semester – II	
Course Name: Numerical and Statistical Methods		Course Code: USIT204	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Mathematical Modeling and Engineering Problem Solving: A Simple Mathematical Model, Conservation Laws and Engineering Problems</p> <p>Approximations and Round-Off Errors: Significant Figures, Accuracy and Precision, Error Definitions, Round-Off Errors</p> <p>Truncation Errors and the Taylor Series: The Taylor Series, Error Propagation, Total Numerical Errors, Formulation Errors and Data Uncertainty</p>	12
II	<p>Solutions of Algebraic and Transcendental Equations: The Bisection Method, The Newton-Raphson Method, The Regula-falsi method, The Secant Method.</p> <p>Interpolation: Forward Difference, Backward Difference, Newton's Forward Difference Interpolation, Newton's Backward Difference Interpolation, Lagrange's Interpolation.</p>	12
III	<p>Solution of simultaneous algebraic equations (linear) using iterative methods: Gauss-Jordan Method, Gauss-Seidel Method.</p> <p>Numerical differentiation and Integration: Numerical differentiation, Numerical integration using Trapezoidal Rule, Simpson's 1/3rd and 3/8th rules.</p> <p>Numerical solution of 1st and 2nd order differential equations: Taylor series, Euler's Method, Modified Euler's Method, Runge-Kutta Method for 1st and 2nd Order Differential Equations.</p>	12
IV	<p>Least-Squares Regression: Linear Regression, Polynomial Regression, Multiple Linear Regression, General Linear Least Squares, Nonlinear Regression</p> <p>Linear Programming: Linear optimization problem, Formulation and Graphical solution, Basic solution and Feasible solution.</p>	12
V	<p>Random variables: Discrete and Continuous random variables, Probability density function, Probability distribution of random variables, Expected value, Variance.</p> <p>Distributions: Discrete distributions: Uniform, Binomial, Poisson, Bernoulli, Continuous distributions: uniform distributions, exponential, (derivation of mean and variance only and state other properties and discuss their applications) Normal distribution state all the properties and its applications.</p>	12

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Introductory Methods of Numerical Methods	S. S. Shastri	PHI	Vol – 2	
2.	Numerical Methods for Engineers	Steven C. Chapra, Raymond P. Canale	Tata Mc Graw Hill	6 th	2010
3.	Numerical Analysis	Richard L. Burden, J. Douglas Faires	Cengage Learning	9 th	2011
4.	Fundamentals of Mathematical Statistics	S. C. Gupta, V. K. Kapoor			
5.	Elements of Applied Mathematics	P.N.Wartikar and J.N.Wartikar	A. V. Griha, Pune	Volume 1 and 2	

B. Sc. (Information Technology)		Semester – II	
Course Name: Numerical and Statistical Methods Practical		Course Code: USIT2P4	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	--

List of Practical	
1.	Iterative Calculation
a.	Program for iterative calculation.
b.	Program to calculate the roots of a quadratic equation using the formula.
c.	Program to evaluate e^x using infinite series.
2.	Solution of algebraic and transcendental equations:
a.	Program to solve algebraic and transcendental equation by bisection method.
b.	Program to solve algebraic and transcendental equation by false position method.
c.	Program to solve algebraic and transcendental equation by Secant method.
d.	Program to solve algebraic and transcendental equation by Newton Raphson method.
3.	Interpolation
a.	Program for Newton's forward interpolation.
b.	Program for Newton's backward interpolation.
c.	Program for Lagrange's interpolation.
4.	Solving linear system of equations by iterative methods
a.	Program for solving linear system of equations using Gauss Jordan method.
b.	Program for solving linear system of equations using Gauss Seidel method.
5.	Numerical Differentiation
a.	Programing to obtain derivatives numerically.
6.	Numerical Integration
a.	Program for numerical integration using Trapezoidal rule.
b.	Program for numerical integration using Simpson's 1/3 rd rule.
c.	Program for numerical integration using Simpson's 3/8 th rule.
7.	Solution of differential equations
a.	Program to solve differential equation using Euler's method
b.	Program to solve differential equation using modified Euler's method.
c.	Program to solve differential equation using Runge-kutta 2 nd order and 4 th order methods.
8.	Regression
a.	Program for Linear regression.
b.	Program for Polynomial Regression.

c.	Program for multiple linear regression.
d.	Program for non-linear regression.
9.	Random variables and distributions
a.	Program to generate random variables.
b.	Program to fit binomial distribution.
c.	Program to fit Poisson distribution.
10.	Distributions
a.	Program for Uniform distribution.
b.	Program for Bernoulli distribution
c.	Program for Negative binomial distribution.

B. Sc. (Information Technology)		Semester – II	
Course Name: Green Computing		Course Code: USIT205	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Overview and Issues: Problems: Toxins, Power Consumption, Equipment Disposal, Company's Carbon Footprint: Measuring, Details, reasons to bother, Plan for the Future, Cost Savings: Hardware, Power.</p> <p>Initiatives and Standards: Global Initiatives: United Nations, Basel Action Network, Basel Convention, North America: The United States, Canada, Australia, Europe, WEEE Directive, RoHS, National Adoption, Asia: Japan, China, Korea.</p>	12
II	<p>Minimizing Power Usage: Power Problems, Monitoring Power Usage, Servers, Low-Cost Options, Reducing Power Use, Data De-Duplication, Virtualization, Management, Bigger Drives, Involving the Utility Company, Low-Power Computers, PCs, Linux, Components, Servers, Computer Settings, Storage, Monitors, Power Supplies, Wireless Devices, Software.</p> <p>Cooling: Cooling Costs, Power Cost, Causes of Cost, Calculating Cooling Needs, Reducing Cooling Costs, Economizers, On-Demand Cooling, HP's Solution, Optimizing Airflow, Hot Aisle/Cold Aisle, Raised Floors, Cable Management, Vapour Seal, Prevent Recirculation of Equipment Exhaust, Supply Air Directly to Heat Sources, Fans, Humidity, Adding Cooling, Fluid Considerations, System Design, Datacentre Design, Centralized Control, Design for Your Needs, Put Everything Together.</p>	12
III	<p>Changing the Way of Work: Old Behaviours, starting at the Top, Process Reengineering with Green in Mind, Analysing the Global Impact of Local Actions, Steps: Water, Recycling, Energy, Pollutants, Teleworkers and Outsourcing, Telecommuting, Outsourcing, how to Outsource.</p> <p>Going Paperless: Paper Problems, The Environment, Costs: Paper and Office, Practicality, Storage, Destruction, Going Paperless, Organizational Realities, Changing Over, Paperless Billing, Handheld Computers vs. the Clipboard, Unified Communications, Intranets, What to Include, Building an Intranet, Microsoft Office SharePoint Server 2007, Electronic Data Interchange (EDI), Nuts and Bolts, Value Added Networks, Advantages, Obstacles.</p>	12

IV	<p>Recycling: Problems, China, Africa, Materials, Means of Disposal, Recycling, Refurbishing, Make the Decision, Life Cycle, from beginning to end, Life, Cost, Green Design, Recycling Companies, Finding the Best One, Checklist, Certifications, Hard Drive Recycling, Consequences, cleaning a Hard Drive, Pros and cons of each method, CDs and DVDs, good and bad about CD and DVDs disposal, Change the mind-set, David vs. America Online</p> <p>Hardware Considerations: Certification Programs, EPEAT, RoHS, Energy Star, Computers, Monitors, Printers, Scanners, All-in-Ones, Thin Clients, Servers, Blade Servers, Consolidation, Products, Hardware Considerations, Planned Obsolescence, Packaging, Toxins, Other Factors, Remote Desktop, Using Remote Desktop, Establishing a Connection, In Practice</p>	12
V	<p>Greening Your Information Systems: Initial Improvement Calculations, Selecting Metrics, Tracking Progress, Change Business Processes, Customer Interaction, Paper Reduction, Green Supply Chain, Improve Technology Infrastructure, Reduce PCs and Servers, Shared Services, Hardware Costs, Cooling.</p> <p>Staying Green: Organizational Check-ups, Chief Green Officer, Evolution, Sell the CEO, SMART Goals, Equipment Check-ups, Gather Data, Tracking the data, Baseline Data, Benchmarking, Analyse Data, Conduct Audits, Certifications, Benefits, Realities, Helpful Organizations.</p>	12

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Green IT	Toby Velte, Anthony Velte, Robert Elsenpeter	McGraw Hill		2008
2.	Green Data Center: Steps for the Journey	Alvin Galea, Michael Schaefer, Mike Ebbers	Shroff Publishers and Distributers		2011
3.	Green Computing and Green IT Best Practice	Jason Harris	Emereo		
4.	Green Computing Tools and Techniques for Saving Energy, Money and Resources	Bud E. Smith	CRC Press		2014

B. Sc. (Information Technology)		Semester – II	
Course Name: Green Computing Practical		Course Code: USIT2P5	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	--

Project and Viva Voce	
1.	A project should be done based on the objectives of Green Computing. A report of minimum 50 pages should be prepared. The report should have a font size of 12, Times new roman and 1.5 line spacing. The headings should have font size 14. The report should be hard bound.
2.	The project can be done individually or a group of two students.
3.	The students will have to present the project during the examination.
4.	A certified copy of the project report is essential to appear for the examination.

Evaluation Scheme:**1. Internal Evaluation (25 Marks).****i. Test: 1 Class test of 20 marks. (Can be taken online)**

Q	Attempt <i>any four</i> of the following:	20
a.		
b.		
c.		
d.		
e.		
f.		

ii. 5 marks: Active participation in the class, overall conduct, attendance.**2. External Examination: (75 marks)**

	All questions are compulsory	
Q1	(Based on Unit 1) Attempt <i>any three</i> of the following:	15
a.		
b.		
c.		
d.		
e.		
f.		
Q2	(Based on Unit 2) Attempt <i>any three</i> of the following:	15
Q3	(Based on Unit 3) Attempt <i>any three</i> of the following:	15
Q4	(Based on Unit 4) Attempt <i>any three</i> of the following:	15
Q5	(Based on Unit 5) Attempt <i>any three</i> of the following:	15

3. Practical Exam: 50 marks

A Certified copy journal is essential to appear for the practical examination.

1.	Practical Question 1	20
2.	Practical Question 2	20
3.	Journal	5
4.	Viva Voce	5

OR

1.	Practical Question	40
2.	Journal	5
3.	Viva Voce	5

University of Mumbai



**Revised Syllabus of Courses
of
Master of Commerce (M.Com)
Programme
at
Second Year
Semester III and IV**

**Under Choice Based Credit, Grading and
Semester System**

(To be implemented from Academic Year 2017-2018)

Faculty of Commerce

Master of Commerce (M.Com) Programme
Under Choice Based Credit, Grading and Semester System
Course Structure

M.Com II

(To be implemented from Academic Year- 2017-2018)

No. of Courses	Semester III	Credits	No. of Courses	Semester IV	Credits
1	<i>Elective Courses (EC)</i>		1	<i>Elective Courses (EC)</i>	
1,2 and 3	*Any one group of courses from the following list of the courses (Group – A/B/C/D/E)	18	1,2 and 3	**Any one group of courses from the following list of the courses (Group – A/B/C/D/E)	18
2	<i>✓ Project Work</i>		2	<i>✓ Project Work</i>	
4	Project Work - I	06	4	Project Work - II	06
Total Credits		24	Total Credits		24

✓ **Note:** Project work is considered as a special course involving application of knowledge in solving/ analyzing/ exploring a real life situation/ difficult problem. Project work would be of 06 credits. A project work may be undertaken in any area of Elective Courses

1 *List of group of Elective Courses (EC) for Semester III (Any Three out of Five)			1 ** List of group of Elective Courses (EC) for Semester IV (Any Three out of Five)		
Group A: Advanced Accounting, Corporate Accounting and Financial Management					
1	Advanced Financial Accounting	06	1	Corporate Financial Accounting	06
2	Direct Tax	06	2	Indirect Tax- Introduction of Goods and Service Tax	06
3	Advanced Cost Accounting	06	3	Financial Management	06
4	Advanced Auditing	06	4	International Financial Reporting Standards	06
5	Financial Services	06	5	Personal Financial Planning	06
Group B: Business Studies (Management)					
1	Human Resource Management	06	1	Supply chain management and logistics	06
2	Rural Marketing	06	2	Advertising and sales Management	06
3	Entrepreneurial Management	06	3	Retail Management	06
4	Marketing Strategies and practices	06	4	Tourism Management	06
5	Organizational Behaviour	06	5	Management of Business Relations	06
Group C : Banking & Finance					
1	Commercial Bank Management	06	1	International Finance	06
2	Financial Markets	06	2	Financial Services	06
3	Accounting of Banking Sector	06	3	Auditing of Banking Sector	06
4	Treasury Management	06	4	Investment Management	06
5	Debt Market	06	5	Currency Derivatives	06
Group D : E-Commerce					
1	Database Management System	06	1	E-Commerce Security and Law	06
2	Internet & Web-Designing (skill based)	06	2	Advance technology for E-Commerce	06
3	Network Infrastructure and Payment System	06	3	Management Information System	06
4	Logistic & supply chain Management in E-Commerce	06	4	Digital Marketing	06
5	Business Models in E-Commerce & ICT Applications	06	5	International Business, Law and Taxation	06

1		*List of group of Elective Courses (EC) for Semester III (Any Three out of Five)		1		** List of group of Elective Courses (EC) for Semester IV (Any Three out of Five)	
Group E : Business Economics							
1	Economics of Growth and Development	06	1	Urban Economics	06		
2	Applied Econometrics	06	2	Entrepreneurship and Family business	06		
3	Agriculture Economics	06	3	Indian Financial system	06		
4	Monetary Economics	06	4	International Economics	06		
5	Industrial Economics	06	5	Economics of Services	06		
Note: Group selected in Semester III will continue in Semester IV							

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Semester III

No. of Courses	Semester III	Credits
1	<i>Elective Courses (EC)</i>	
<i>Group A: Advanced Accounting, Corporate Accounting and Financial Management (Any Three out of Five)</i>		
1	Advanced Financial Accounting	06
2	Direct Tax	06
3	Advanced Cost Accounting	06
4	Advanced Auditing	06
5	Financial Services	06
Total Credits		18

**Revised Syllabus of Courses of
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**Group A: Advanced Accounting, Corporate Accounting and
Financial Management**

1. Advanced Financial Accounting

Modules at a Glance

SN	Modules	No. of Lectures
1	Foreign Currency Conversion (As per Applicable Accounting Standards)	15
2	Final Accounts & Statutory Requirements for Banking Companies	15
3	Accounting & Statutory Requirements of Insurance Companies	15
4	Accounting & Statutory Requirements of Co-operative Societies	15
Total		60

SN	Modules/ Units
1	Foreign Currency Conversion (As per Applicable Accounting Standards)
	Requirements as per Accounting Standards Foreign Branches
2	Final Accounts & Statutory Requirements for Banking Companies
	Final Accounts of Banking Companies Provisioning of Non- Performing Assets Form & Requirements of Final Accounts
3	Accounting & Statutory Requirements of Insurance Companies
	<ul style="list-style-type: none"> • Accounting Provision for Insurance Act and Insurance Regulation and Development Authorities for <ol style="list-style-type: none"> 1) Life Insurance Business 2) General Insurance Business • Forms and Requirements of Final Accounts for <ol style="list-style-type: none"> 1) Life Insurance Business 2) General Insurance Business
4	Accounting & Statutory Requirements of Co-operative Societies
	<ul style="list-style-type: none"> • Accounting Provisions of Maharashtra State Co-operative Societies Act and Rules • Forms and Requirements of Final Accounts

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**Group A: Advanced Accounting, Corporate Accounting and
Financial Management**

2. Direct Tax

Modules at a Glance

SN	Modules	No. of Lectures
1	Definitions and Basis of Charge	15
2	Heads of Income	15
3	Deductions u/s 80 and Exclusions from the Total Income	15
4	Computation of Income and Tax of Individual, Firm and Company (Excluding MAT) and Provisions for Filing Return of Income - Sec 139(1) and Sec 139(5)	15
Total		60

SN	Modules/ Units
1	Definitions and Basis of Charge
	<ul style="list-style-type: none"> • Definitions: Person, Assessee, Income • Basis of Charge: Previous Year, Assessment Year, Residential Status, Scope of Total Income, Deemed Income
2	Heads of Income
	<ul style="list-style-type: none"> • Income from Salary • Income from House Property • Profits and Gains from Business and Profession • Income from Capital Gains • Income from Other Sources
3	Deductions u/s 80 and Exclusions from the Total Income
	<ul style="list-style-type: none"> • Deductions: 80C, 80CCF, 80D, 80DD, 80DDB, 80E, 80U • Exclusions: Exemptions related to Specific Heads of Income to be Covered with Relevant Provisions, Agricultural Income, Sums Received from HUF by a Member, Share of Profit from Firm, Income from Minor Child, Dividend
4	Computation of Income and Tax of Individual, Firm and Company (Excluding MAT) and Provisions for Filing Return of Income - Sec 139(1) and Sec 139(5)
	<ul style="list-style-type: none"> • Computation of Income & Tax of Individual and Partnership Firm

Note:

- 1. The Syllabus is restricted to study of particular sections, specifically mentioned rules and notifications only***
- 2. All modules/units include computational problems/ Case study***
- 3. The Law in force on 1st April immediately preceding the commencement of Academic year will be applicable for ensuing Examinations***

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**Group A: Advanced Accounting, Corporate Accounting and
Financial Management**

3. Advanced Cost Accounting

Modules at a Glance

SN	Modules	No. of Lectures
1	Process Costing	15
2	Cost Allocation and Activity Based Costing Systems	15
3	Responsibility Accounting	15
4	Strategic Cost Management	15
Total		60

SN	Modules/ Units
1	Process Costing
	<p>A) Introduction - Features of process, Concept of Process Loss, Abnormal Loss, Normal Loss, Abnormal Gain.</p> <p>B) Computation of Inter Process Profit – Advantages and Disadvantages</p> <p>C) Computation of Equivalent Production – Weighted Average and FIFO.</p>
2	Cost Allocation and Activity Based Costing Systems
	<p>A) Cost Allocation – Meaning and its Types, Relationship between resources, activities, Cost and Cost drivers, Methods of allocating central costs - cost allocation using Direct Method, Step Down Method and Reciprocal Method.</p> <p>B) Activity Based Costing – Introduction, Advantages, Limitations, Identification of cost drivers, Practical Problems on Traditional V/s Activity Based Costing System.</p>
3	Responsibility Accounting
	<p>A) Responsibility Accounting – Meaning, Features, Objective, Assumptions, Problems, Responsibility Centre’s – Cost, Profit, Revenue and Investment.</p> <p>B) Concept of Controllability – Introduction, Measuring Managerial Performance (ROI and Residual Income Approach)</p> <p>C) Preparation of Managerial Reports using Segmented Costs and Controllable costs approach.</p>
4	Strategic Cost Management
	<p>A) Transfer Pricing – Introduction, Advantages and Disadvantages, Setting Transfer Pricing – Negotiated transfer pricing, Cost Based transfer pricing.</p> <p>B) Target Costing – Introduction, Concept, Objectives, Comparison between Target Costing and Cost Plus Pricing.</p> <p>C) Inflation Accounting – Meaning, Features, Conversion of Income Statement, Balance Sheet, Stocks and Net Assets Block using Current Purchasing Power Method.</p>

Note – All Topics include practical sums.

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**Group A: Advanced Accounting, Corporate Accounting and
Financial Management**

4. Advanced Auditing

Modules at a Glance

SN	Modules	No. of Lectures
1	Company Audit	15
2	Special Audits	15
3	Audit under other laws	15
4	Auditing in Computerized Environment	15
Total		60

SN	Modules/ Units
1	Company Audit
	<ul style="list-style-type: none"> • Introduction to Audit - Audit of Ledgers, General Considerations, Scrutiny of Ledgers of Assets, Personal and Revenue Accounts • Company Audit - Audit of Shares, Qualifications and Disqualifications of Auditors, Appointment of auditors, Removal of auditors, Powers and duties of auditors, Branch audit, Joint audit, Special audit, Reporting requirements under the Companies Act, 2013. • Concepts of true and fair and materiality and audit risk in the context of audit of companies. • Audit reports; qualifications, notes on accounts, distinction between notes and qualifications, detailed observations by the statutory auditor to the management vis-a-vis obligations of reporting to the members
2	Special Audits
	<ul style="list-style-type: none"> • Special points in audit of different types of undertakings, i.e., Educational institutions, Hotels, Clubs and Hospitals.
3	Audit under other Laws
	<ul style="list-style-type: none"> • Cost audit, Environmental Audit, Energy Audit., Audit under different statutes, viz; income tax, other direct tax laws and indirect taxes
4	Auditing in Computerized Environment
	<ul style="list-style-type: none"> • Audit under computerised environment: Computer auditing; specific problems of EDP audit, Need for review of internal control especially procedure controls and facility controls; techniques of audit of EDP output; Use of computers for internal and management audit purposes; test packs, computerised audit programmes; involvement of the auditor at the time of setting up the computer system

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**Group A: Advanced Accounting, Corporate Accounting and
Financial Management**

5. Financial Services

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Financial Services and Merchant Banking	15
2	Venture Capital and Securitization	15
3	Hire Purchase Finance and Housing Finance	15
4	Stock Broking and Depository Services	15
Total		60

SN	Modules/ Units
1	Introduction to Financial Services and Merchant Banking
	<p>A) Introduction to Financial Services - Overview of Financial Services in India, Growth, Structure and Types of financial services.</p> <p>B) Merchant Banking - Merchant Banking – Meaning, nature and functions; merchant banking in India, role in issue management; classification and regulation of merchant bankers by SEBI</p>
2	Venture Capital and Securitization
	<p>A) Venture Capital- Meaning and Definition of Venture Capital, Characteristics of Venture Capital, Forms/Types of Venture Capital Assistances, Venture Capital Process, Modes of Venture Capital Assistance</p> <p>B) Securitization - Introduction, Definition, Concept, Need, Players Involved in Securitization, Securitization Structure, Instruments of Securitization, Differentiate between Pass Through Certificate and Pay Through Securities, Process of Securitization</p>
3	Hire Purchase Finance and Housing Finance
	<p>A) Hire Purchase Finance - Meaning, concepts of hire purchase finance, installment credit and consumer credit; sources of finance in India</p> <p>B) Housing Finance – Introduction, Need, nature of housing finance, fixed and floating rate home loans; sources of housing finance in India, growth of housing finance in India; Role of National Housing Bank; concept of mortgage and reverse mortgage; housing loans and mortgage loans, types of mortgage loans</p>
4	Stock Broking and Depository Services
	<p>A) Stock Broking – Meaning, types of stockbrokers, sub-brokers; stock broking in , E-broking – meaning, Indian experience</p> <p>B) Depository Services – Meaning, role of depositories and their services, Advantages of depository system; Functioning of depository system; Depositories in India – NSDL & CSDL; Depository participants (DPs) and their role Custodial services - meaning; obligations and responsibilities of custodians; code of conduct</p>

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Semester III

No. of Courses	Semester III	Credits
1	<i>Elective Courses (EC)</i>	
<i>Group B: Business Studies (Management)</i> <i>(Any Three out of Five)</i>		
1	Human Resource Management	06
2	Rural Marketing	06
3	Entrepreneurial Management	06
4	Marketing Strategies and practices	06
5	Organizational Behaviour	06
Total Credits		18

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(To be implemented from Academic Year- 2017-2018)**

Group B: Business Studies (Management)

1. Human Resource Management

Modules at a Glance

SN	Modules	No. of Lectures
1	Human Resource Management	15
2	Human Resource Development	15
3	Latest Development in H.R.M. and Labour Legislation	15
4	Emerging Issues In H.R.M	15
	Total	60

SN	Modules/ Units
1	Human Resource Management
	<ul style="list-style-type: none"> • Human Resource Management (HRM). – Concept, Traditional HRM v/s Strategic HRM , Objectives of HRM, Organisation Structure of HRM Department – Changing Role of H.R. Manager. • Human Resource Planning- Concept, Factors affecting HRP, Information Management in HRP – HRIS (Human Resource Information System), Job Analysis, Psychological and Behavioural Issues in HRP. • Recruitment and Selection of managerial personnel - Factors affecting recruitment process, Role of Recruitment agencies, Online process of selection.
2	Human Resource Development
	<ul style="list-style-type: none"> • Training and Development - Designing of the effective training programme Evaluation of the effective training programme, Challenges before trainers, Management Development Programme – Techniques. • Performance Appraisal- Process, Guidelines for conducting appraisal Interviews, Ethical aspects in performance appraisal. • Career Advancement and Succession Planning- Self-Development Mechanism and Knowledge enrichment, Managing Promotion and Transfers, Managing dismissal, Succession Planning- Problems and Issues, Culture as a factor in Succession Planning..
3	Latest Development in H.R.M. And Labour Legislation
	<ul style="list-style-type: none"> • Industrial Relation Act – Prominent features and recent changes in Trade Union Act 2016, Factories Act 1961, Industrial Disputes Act 1950. • Prominent features and recent changes to Child and Women Labour Act 1986, Social Security Act 2016, Prevention of Sexual harassment Act, 2013. • Prominent features and recent changes to Employees Acts like payment of Gratuity Act 2015, Provident Fund Act 1952, Minimum Wages Act 2016 and Payment of Wages Act 1991, Workmen Compensation Act 2014/ESI Scheme.
4	Emerging Issues In H.R.M
	<ul style="list-style-type: none"> • Health and Safety – Safety measures and safety programmes, Stress and its Impact on Job Performance, Role of organization in ensuring mental and physical health of employees • Work life balance – Need and Importance, Employee Engagement, Managing Millennials (Gen Y) • Talent Management – Concept , Importance, Process, Talent Management and VUCA Environment(Volatility, Uncertainty, Complexity, Ambiguity), H.R. Practices at Global level

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Group B: Business Studies (Management)

2. Rural Marketing

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Rural Marketing	15
2	Consumer Behaviour and Rural Marketing	15
3	Agricultural Marketing	15
4	Recent Trends in Rural Marketing	15
Total		60

SN	Modules/ Units
1	Introduction to Rural Marketing
	<ul style="list-style-type: none"> • Rural Marketing: Concept, Scope, Nature and Evolution of Rural Marketing, Rural Marketing Strategies-4P's, Rural Infrastructural Facilities – Warehousing, Cold Storage, Logistics. • Indian Rural Market: Profile, Rural Vs Urban Market, Importance of Branding, Scope and Importance of Transportation Networking in rural markets. • Problems of Rural Consumer: Adulteration, Short Weight and Measures, Unfair Warranties and Guarantees, Unreasonable Pricing, Challenges and Future of Rural Marketing
2	Consumer Behaviour and Rural Marketing
	<ul style="list-style-type: none"> • Consumer Behaviour: Characteristics of Buying Behaviour- Awareness, Understanding, Consumer Purchase Decision, Importance of Rural Marketing Communication, Salesmen Influence. • Government Schemes: Rural Development Programmes and Schemes of Government, Entrepreneurship Development Programme, Role of Food Corporation of India (FCI), Role of Khadi and Village Industries Commission (KVIC). • Role of Banks in Rural Marketing: Role of Agricultural Cooperative Banks, Commercial Banking for Rural Marketing
3	Agricultural Marketing
	<ul style="list-style-type: none"> • Agricultural Marketing- Importance, Prospects and Issues, Role of Cooperatives and Self Help Groups (SHG) in Rural Marketing • Commodity Boards: Role and Contribution of Commodity Boards in generating revenue to government and employment in rural India. • Agricultural Exports: Composition and Contribution of Agricultural Exports in generating revenue for India- Food Grains, Organic products, Marine Products, Role of Agricultural & Processed Food Products Export Development Authority (APEDA)
4	Recent Trends in Rural Marketing
	<ul style="list-style-type: none"> • E- Commerce: Importance of E-Commerce and Impact of E- Marketing on rural consumers, Concept of Digital Village, Role of Social Media in rural marketing. • Information Technology: Impact of IT in Agricultural Marketing, E-Chaupal, Project Shakti, Web-casting-online training and guidance to farmers. • Online Marketers: Role of Online Marketers, Growth and Challenges

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Group B: Business Studies (Management)

3. Entrepreneurial Management

Modules at a Glance

SN	Modules	No. of Lectures
1	Entrepreneurship Development Perspective	15
2	Creating Entrepreneurial Venture	15
3	Project Management	15
4	Assistance and Incentives for Promotion and Development of Entrepreneurship	15
	Total	60

SN	Modules/ Units
1	Entrepreneurship Development Perspective
	<ul style="list-style-type: none"> • Entrepreneurship – Concept, Factors affecting growth of Entrepreneurship, Types of Entrepreneurs, Requirements of Entrepreneurial structure. • Entrepreneurial Culture -Elements of culture, Steps to change Entrepreneurial culture, Entrepreneurial v/s Administrative culture. • Theories of Entrepreneurship- Schumpeter Dynamic Entrepreneurship Innovation Theory, Theory of High Achievement by McClelland, Theory of Personnel Resourcefulness
2	Creating Entrepreneurial Venture
	<ul style="list-style-type: none"> • Entrepreneurial Environment- Significance, SWOC Analysis, Problems of Entrepreneurship • Financial Analysis of Entrepreneurial Venture- Significance, Tools of Financial Analysis, Sources of development finance • Social Entrepreneurship- Features, Importance, Arguments (for and against) Social Entrepreneurship, Women Entrepreneurs – concept and special Government schemes for women entrepreneurs in India.
3	Project Management
	<ul style="list-style-type: none"> • Project - Concepts and Classification of Project, Search of Business Idea, Project Cycle. • Project formulation-----Steps for project formulation, Project Design and network analysis – concept and network analysis techniques: PERT/ CPM. • Project Management – Concept, Phases, Project Identification and Project Feasibility Analysis.
4	Assistance and Incentives for Promotion and Development of Entrepreneurship
	<ul style="list-style-type: none"> • Incentives – Need, Promotion and development Entrepreneurship-Types of Assistance and incentives -Fiscal, Financial, Promotional, Marketing, and Organisational. • NPSD - National Policy for Skill Development and Entrepreneurship 2015. • Institutions in aid of Entrepreneurship Development - The National institute for Entrepreneurship and small business development, District Industry Centre (DIC), National Alliance of young Entrepreneurs

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Group B: Business Studies (Management)

4. Marketing Strategies and practices

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Marketing Strategies	15
2	Developing Marketing Strategies & Plans	15
3	Market Environmental Trends & Building Customer Value	15
4	Recent Trends in Marketing Strategies	15
	Total	60

SN	Modules/ Units
1	Introduction to Marketing Strategies
	<ul style="list-style-type: none"> • Introduction: Marketing Strategies – Concept, Evolution, Role/ Importance, Types, Formulation of Marketing Strategies- Steps • Marketing Opportunities and Plan: Analysing Marketing Opportunities, Future of Marketing, Effective Marketing Plan. • New Marketing Strategies: Holistic, New Brand, Service, Green and Guerrilla Marketing Strategies
2	Developing Marketing Strategies & Plans
	<ul style="list-style-type: none"> • Marketing Mix: Marketing Strategy Implementation - Steps, Marketing Mix 4 P's – Importance, Alternative Marketing Mix Propositions- Profit, People, and Planet. • Marketing Plans: Marketing Planning- Importance, Types and Content, Strategic Business Unit - Structure, SWOT Analysis. • Defensive Marketing Strategies: Importance, Types, Offensive V/S Defensive Marketing Strategies, Position Defense Strategies.
3	Market Environmental Trends & Building Customer Value
	<ul style="list-style-type: none"> • Environmental Analysis: Analysing the Macro Environment, Theories of Marketing- PESTLE Analysis, VRIO Analysis, Porter's Competency Model, and Customer Perceived Value (CPV). • Customer Value: Applying Customer Value and Satisfaction, Customer Relationship Management (CRM)- Concepts and Techniques • Customer Loyalty: Importance, Consumer Behaviour – Impact of Personal, Cultural, Social and Psychological Factors.
4	Recent Trends in Marketing Strategies
	<ul style="list-style-type: none"> • Emerging Strategies: 21st Century Marketing Strategies, Global Marketing Strategies, and Strategies for Entering Emerging Market. • E-Marketing: Concept, Pros and Cons, Digital Marketing – Concept and features, Experiential Marketing – Concept and features, Hospitality Marketing Management. • Social Marketing: Social Marketing - Importance, Barriers, Trends in Marketing Practices in India and across Globe.

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Group B: Business Studies (Management)

5. Organizational Behaviour

Modules at a Glance

SN	Modules	No. of Lectures
1	Organisational Setting	15
2	Foundation of Individual Behaviour	15
3	Group Dynamics and Behaviour	15
4	Emerging Challenges	15
Total		60

SN	Modules/ Units
1	Organisational Setting
	<ul style="list-style-type: none"> • Introduction to Organisational Behaviour (OB) – Concept, Nature, Foundation, Disciplines and Scope of OB. • Evolution of OB–Evolution – Stages, Human Relations Approach – Hawthorne Experiments, Models of OB. • Organisation Design – Key factors, Steps in Organisation Structure, Organisations for future - Types.
2	Foundation of Individual Behaviour
	<ul style="list-style-type: none"> • Factors affecting Individual behaviour- Personal, Psychological, Organisation System, Environmental. • Personality & Perception – Nature of personality, Determinants of personality, Personality Traits., Factors Influencing Perception, Managing perception Process, Perception and OB • Attitude – Nature , components , work related attitudes , Barriers to attitudinal Change, Measures to attitudinal change.
3	Group Dynamics and Behaviour
	<ul style="list-style-type: none"> • Group – Types of groups, Stages of Group Development, Group Decision making – Advantages and Problems. • Work place behaviour – Determinants of Group Behaviour, Power and Politics –Sources of Power, Types of Organisational politics. • Conflict – Levels of Conflict, Strategies for resolving Conflict, Guidelines for effective negotiation.
4	Emerging Challenges
	<ul style="list-style-type: none"> • Stress Management – Sources, Effects, Strategies, Stress and Performance. • Organisation culture – Cultural Dimensions, Creating Organisational Culture, Maintaining Organisational Culture. • Workforce Diversity – Concept, Managing Diversity effectively, Ethical Behaviour in workplace, Managing Ethics at work place.

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Semester III

No. of Courses	Semester III	Credits
1	<i>Elective Courses (EC)</i>	
<i>Group C: Banking and Finance (Any Three out of Five)</i>		
1	Commercial Bank Management	06
2	Financial Markets	06
3	Accounting of Banking Sector	06
4	Treasury Management	06
5	Debt Market	06
Total Credits		18

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Group C: Banking and Finance

Commercial Bank Management

Modules at a Glance

SN	Modules	No. of Lectures
1	Overview of Commercial Banking in India	15
2	Credit Management in Banks	18
3	Human Resource Management in Banks	12
4	Evolving Trends in Modern Banking	15
	Total	60

SN	Modules/ Units
1	Overview of Commercial Banking in India
	<p>A) Overview of Commercial Banking in India - Role and Functions of Commercial Banks, Introduction to Bank Management, Management of Banks in Rural Areas.</p> <p>B) Customer Relationship Management in Banks - Meaning and Objectives of CRM in banks, Strategies for Expanding Customer Base, Banking Ombudsman Scheme, Customer Retention , Handling Customer Grievances</p> <p>C) Services to Different Categories of Customers - Retail, Corporate, International and Rural.</p>
2	Credit Management in Banks
	<p>A) Credit Management in Banks – Principles of Sound Bank Lending, Loan Policy, Compliance with RBI guidelines, Credit Appraisal and Credit Decision Making, Monitoring and Review of Loan Portfolio, Management of Non-Performing Assets (NPAs), Classification of NPAs, Debt Restructuring- SARFAESI Act, 2002.</p> <p>B) Bank's Investment Policy – SLR Requirements & Non-SLR Investments, Nature and Significance of Investment Management in Commercial Banks, Fundamental Principles of Security Investment, Management of Security Investment, Reviewing Investment Portfolio and Organization of Investment Function in Bank</p>
3	Human Resource Management in Banks
	<p>A) Human Resource Management in Banks – Importance of HRM in Banks, Policies relating to Human Resource Development in India, Selection, Training, Pay Structure in Public Sector Banks and Private Sector Banks , Workers Participation in Management, Motivations and Morals, Performance Evaluation, Promotion, Transfer Policy and VRS schemes in Public Sector Banks</p>
4	Evolving Trends in Modern Banking
	<p>A) Evolving Trends in Modern Banking – Internet Banking, Mobile Banking, EFT services, Outsourcing of Non-core Services, Mergers and Acquisitions in Banking Sector.</p> <p>B) Financial Inclusion – Need and Importance of Financial Inclusion, Micro Credit SHGs, RBI Guidelines for Micro Credit, Portfolio Securitization, SHG-2, NRLM and SRLM, Priority Sector and its Classification.</p>

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Group C: Banking and Finance

Financial Markets

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Financial system	15
2	Overview of Capital Market	20
3	Overview of Money Market	10
4	Overview of Derivatives Market	15
	Total	60

SN	Modules/ Units
1	Introduction to Financial System
	<p>A) An Overview of Financial System - Structure of Indian financial system, the nature and role of financial system, Relationship between financial system and economic development, Constituents of Financial System – Primary and Secondary, Development of Financial Markets in India, Components of financial system.</p> <p>B) Theories –Prior savings theory, Credit creation theory, Theory of post savings, Financial regulation theory, Financial liberalization theory.</p>
2	Overview of Capital Market
	<p>A) Introduction to Capital Market - Structure and Growth of the Indian Capital Market, Indian Capital Market Forms - Industrial Securities , New Issue markets and Old Issue markets- Introduction, Features, Types and Government Securities (Gilt-edged market)- Introduction, Features, and Types</p> <p>B) Ownership Securities – Equity Shares, Preference Shares, No-par stock- (Introduction, Features and Types)</p> <p>C) Creditorship Securities – Debentures –Introduction, Features, and Types</p>
3	Overview of Money Market
	<p>A) Money market- Meaning, Features, Structure of money market, Regulatory framework,- RBI/FIMMDA/FEDAI, Disadvantages of Money market, Characteristics and Features of developed money market, Recent development in money markets-DFHI, STCI</p> <p>B) Money Market Instruments-T Bills, Money at short and call notice, Commercial bills, Promissory notes, Certificate of deposits Commercial-papers, Banker’s Acceptance CBLO, IBPC, MMMF and LAF</p>
4	Overview of Derivatives Market
	<p>A) Derivatives Market - Meaning, Importance and Need for Derivatives Market, Kinds of financial derivatives and financial derivatives in India.</p> <p>B) Globalization of Financial Market - Indigenous Bond markets, Foreign Currency Bond Markets, Euro market, FDI- Inflows- Outflows, Emerging Trends and Challenges in Global Financial Markets and Impact of globalization on financial markets.</p>

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Group C: Banking and Finance

Accounting of Banking Sector

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction of Banking Companies	10
2	Accounting Systems & Provisions in Banks	15
3	Calculation of Interest and Annuities	15
4	Preparation of Final Accounts and Reporting	20
	Total	60

SN	Modules/ Units
1	Introduction of Banking Companies
	<ul style="list-style-type: none"> • Definition and features of banking companies • Types of banks • Different types of accounts maintained by banks • Bank products & services • Cash Management Services and its Importance
2	Accounting Systems & Provisions in Banking Companies
	<ul style="list-style-type: none"> • Significant Features of Accounting Systems of Banking Companies • Books required to be maintained by banks • Income recognition, Classification of assets and advances, Provisions, Classification of investments • Provisions of Banking Regulation Act- 1949 applicable to banking companies:- Business, Capital and Reserve, Reserve funds, Dividend, Cash reserves, Loans and advances, Unclaimed deposits, Accounts and auditing
3	Calculation of Interest and Annuities
	<ul style="list-style-type: none"> • Calculation of Simple Interest & Compound Interest; Calculation of Equated Monthly Instalments; Fixed and Floating Interest Rates; • Calculation of Annuities, Interest Calculation using Products/Balances; Amortization of a Debt; Sinking Funds
4	Preparation of Final Accounts and Reporting
	<ul style="list-style-type: none"> • Disclosure Requirements of Banks and Additional Disclosures prescribed by RBI • Disclosures required under BASEL norms. • Preparation of Financial Statements of Banking Companies as per regulatory requirements

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Group C: Banking and Finance

Treasury Management

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Treasury Management	15
2	Treasury Operations	15
3	Risk Analysis & Control	15
4	Regulatory, Supervising & Compliance Framework	15
	Total	60

SN	Modules/ Units
1	Introduction to Treasury Management
	<ul style="list-style-type: none"> • Concept & Evolution of Treasury [Including other important terminology in treasury:- Arbitrage; Bank Rate; Options; Capital Adequacy; Capital Fund; CRR; CDSL; Clearing House; DP; Hedging; LAF; OMOs; RTGS; Refinance; SLR; SWIFT; T-Bills; Tier-I & II Capital] • Objectives & Role of Treasury • Structure of Treasury & Functions of Treasurer • Scope & Functions of Treasury Management • Internal Treasury Control System • Role of Information Technology in Treasury Management [Negotiated Dealing System(NDS); Straight-Through-Processing(STP)]
2	Treasury Operations
	<ul style="list-style-type: none"> • Liquidity Management [Objectives-CRR-SLR-RTGS-CCIL] • Treasury Management in Commercial Banks [NPA & Capital Adequacy Norms (CRAR); Investment Policy Statement; Back office support & Accounting] • FOREX Market Operations [International Financial System & FOREX Market; Instrument traded; Exchange Rate mechanism; Indian FOREX market; RBI & Exchange Market] • Risk Management in Market Operations [Gilt-edged Markets; Exchange Rate & Currency Risk; Interest Risk Management] • Impact of Treasury Operations [Structural & Statutory changes; Need for Regulation; Development in Markets] • Practical Problems on FOREX Valuation [FEDAI Guidelines & Valuation]
3	Risk Analysis & Control
	<ul style="list-style-type: none"> • Interest Rate risk: Investment /Trading Book • Value at Risk [VaR] • FOREX (Market) Risk • Risk Management in banks [RBI Guidelines] • Treasury & Asset-Liability Management(ALM) [Meaning & Objectives of ALM; Market Risk-Liquidity & Interest Risk; Role of Treasury in ALM; Use of Derivatives in ALM; Policy Environment]
4	Regulatory, Supervising & Compliance Framework
	<ul style="list-style-type: none"> • Ethics, Morals & Code of Conduct- The Dealing Room [General Principles from FIMMDA] • RBI guidelines & Policy [Organizational set up; Industrial Sickness; NPAs in Scheduled Commercial banks] • Tax Environment in treasury [Corporate Taxation; Need for Tax Planning; Tax changes during 2004 to 2007 & at Present; Tax on Investments; Tax Compliance] • MIS for Treasury Operations [Current Monetary & Credit Policies; Fiscal & Budgetary Policies; Foreign Trade & Exchange Policies; Financial Market Trends; International Developments] • Global framework in Treasury Operations

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Group C: Banking and Finance

Debt Market

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Indian Debt Market	10
2	Central Government Securities and State Government Bonds	15
3	Corporate Bond Market	15
4	Valuation of Bonds	20
	Total	60

SN	Modules/ Units
1	Introduction to Indian Debt Market
	<p>A) Indian Debt Markets: A Profile of Products and Participants, Market Segments, Participants in the Debt Markets, Secondary Market for Debt Instruments</p> <p>B) Debt Instruments: Instrument Features, Modifying the coupon of the bond, Modifying the term to maturity of a bond, Modifying the principal repayment of a bond, Asset backed securities</p>
2	Central Government Securities and State Government Bonds
	<p>A) Central Government Securities Bonds-Introduction, Developments Expected, G-Secs: Trends in Volumes, Tenor and Yields, Primary Issuance Process, Participants in Government Bond Markets, Constituent of SGL Accounts, Primary Dealers, Satellite Dealers, Secondary Markets for Government Bonds, Settlement of Trades in G-Secs, Clearing Corporation, Negotiated Dealing System, Liquidity Adjustment Facility (LAF).</p> <p>B) Central Government Securities: Treasury Bill Issuance Process, Cut-Off Yields, Investors in T-Bills, Secondary Market Activity in T-bills.</p> <p>C) State Government Bonds- Gross Fiscal Deficit of State Governments and its financing, Volume and Coupon rates on State Government Bonds, Ownership Pattern of State Government Bonds, and State Government Guaranteed Bonds.</p>
3	Corporate Bond Market
	<p>A) Corporate Bonds- Market Segments, Issue Process, Issue Management and Book Building, Terms of a debenture issue and Credit Rating.</p> <p>B) Bond Market Indices and Benchmarks I-Bex : Sovereign Bond Index, NSE – MIBOR</p>
4	Valuation of Bonds
	<p>A) Valuation of Bonds - Bond Valuation: First principles, Time path of a bond, Valuing a bond at any point on the time scale, Accrued Interest, Yield, Weighted Yield, YTM of a Portfolio, Realised Yield, Yield–Price relationships of bonds</p> <p>B) Yield Curve and Term Structure of Interest Rate - Yield Curve: The Simple Approach, Bootstrapping, Alternate Methodologies to Estimate the Yield Curve, Theories of the Term Structure of Interest Rates</p> <p>C) Duration - Introduction and Definition, Calculating Duration of a Coupon Paying Bond, Computing duration on dates other than coupon dates, Modified Duration, Rupee Duration, Price Value of a Basis Point, Portfolio Duration, Limitations of Duration</p>

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Semester III

No. of Courses	Semester III	Credits
1	<i>Elective Courses (EC)</i>	
<i>Group D: E-Commerce (Any Three out of Five)</i>		
1	Database Management System	06
2	Internet & Web-Designing (skill based)	06
3	Network Infrastructure and Payment System	06
4	Logistic & supply chain Management in E-Commerce	06
5	Business Models in E-Commerce & ICT Applications	06
Total Credits		18

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Group D: E-Commerce

1. Database Management System

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Database Management System (DBMS)	15
2	Relational Database Design	15
3	Transaction Management and Recovery System	15
4	SQL Concept	15
	Total	60

SN	Modules/ Units
1	Introduction to Database Management System (DBMS)
	<ul style="list-style-type: none"> • Concept of Database, Database Management System: Concept, features, Importance and Evolution • Environment, Classifications, Advantages and Issues of using DBMS, Functional component • Three Level of Architecture, Implications of the Database Approach, Database Languages and Interfaces, The Database System Environment
2	Relational Database Design
	<ul style="list-style-type: none"> • Codd's rule, Entity relationship model, Entity Types, Attributes, Keys, • Roles and Structural Constraints, Constraints on Relationship Types, Basic Relational Algebra Operations • Additional Relational Operations • Roles and functional Dependencies, Normalization, Mapping the ER model to Relational DB
3	Transaction Management and Recovery System
	<ul style="list-style-type: none"> • Transaction Management: Transaction Concept, Transaction State, Implementation of Atomicity and Durability, Implementation of Isolation - Testing for serializability. • Recovery System: Failure Classification, Storage Structure, Recovery and Atomicity - Log - Based Recovery - Recovery with Concurrent Transactions • Buffer Management - Failure with loss of non-volatile storage, Advance Recovery systems, Remote Backup systems.
4	SQL Concept
	<ul style="list-style-type: none"> • Basics of SQL: Form of Basic SQL Query - Examples of Basic SQL Queries, Multi table Queries, • Introduction to Nested Queries, Correlated Nested Queries • NULL values - Comparison using Null values - Disallowing NULL values, Complex Integrity Constraints in SQL Triggers and Active Data bases.

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Group D: E-Commerce

2. Internet & Web-Designing (skill based)

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Internet	15
2	Internet Security Management	15
3	Web designing	15
4	New trends	15
Total		60

SN	Modules/ Units
1	Introduction to Internet
	<ul style="list-style-type: none"> • Concept, Evolution of internet, Significance, Limitations, Types of Network • Internet Network Services and functions of internet, current trends on internet, • Internet Technology and Protocol, Internet Connectivity, TCP/IP, Router, Internet Addressing Scheme
2	Internet Security Management
	<ul style="list-style-type: none"> • Management Concepts and Information Privacy and Copyright Issues, Network etiquettes • Overview of Internet Security, Firewalls, Internet Security, basics of asymmetric cryptosystems. • Governance on internet, impact of internet on society, Internet Applications,
3	Web designing
	<ul style="list-style-type: none"> • WWW- Concept, Web technology, Functioning of websites, Creating a Basic Web Page, Web Page Layout Techniques, • Type of websites, Hypertext Markup Language (HTML)-Essential HTML for content, Cascading Style Sheets (CSS)-Selector Type, Common Properties, Photoshop Elements and Principles of Design • Interactivity tools, Difference between web designer and web developers, web graphics
4	New trends
	<ul style="list-style-type: none"> • Multimedia and Graphics, JavaScript, Adobe Dreamweaver, Facebook Page Designing, You Tube Videos • Utilities: Gif Animation, On-Page Search Engine Optimization, Google Webmasters Tools, Mobile website development • Email Network and server, Email Protocol,

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Group D: E-Commerce

3. Network Infrastructure and Payment System

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Network infrastructure for e-commerce	15
2	Internet Protocol, Security and Protection	15
3	E-payment System	15
4	Security Protocol, Threats and Measures	15
	Total	60

SN	Modules/ Units
1	Introduction to Network infrastructure for E-Commerce
	<ul style="list-style-type: none"> • Requirements for Network infrastructure for e-commerce, Market forces influencing I-way, Component of I-way, Global Information distribution Network, • Network Access equipment, Strategic Alliances and I-Way Infrastructure, Public policy issues shaping I-way • Telephone based infrastructure, Cable/ TV based infrastructure, Wireless infrastructure, Commercial online infrastructure, Narrow band V/S Broad band Network,
2	Internet Protocol, Security and Protection
	<ul style="list-style-type: none"> • TCP/IP Internet protocol for Network Infrastructure, Wireless Access Protocol (WAP), Mobile Network Infrastructure • Internet, Intranet and extranet as E-commerce infrastructure, Network Infrastructure Security- External and Internal Attack • Integrated Services Digital Network (ISDN), Protecting Network infrastructure - Steps in hacking Network Infrastructure, A new model to protect Network infrastructure
3	E-payment System
	<ul style="list-style-type: none"> • E-Payment System- Concept, Online Payment System – prepaid e-payment service, postpaid e-payment system;, Advantages and Limitations of Payment System, Role of E-payments, • Classification of Payment System, Scope of Payment system, Payment meditation services V/S Payment system • Payment processing Network, Payment Processing Settlement, Payment Gateway
4	Security Protocol, Threats and Measures
	<ul style="list-style-type: none"> • Security Protocol, Digital certificates, Security threats in E-com environment, Credit & legal risk of e-payment system. • Credit Card based Payment System, Electronic Payment security- Encryption, Digital signatures, Digital Certificate, Public Key Infrastructure (PKI) • Secure Socket Layer (SSL), 3D SET and Secure, Case studies in E- payment system.

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Group D: E-Commerce

**4. Logistic & supply chain Management in
E-Commerce**

Modules at a Glance

SN	Modules	No. of Lectures
1	Logistic in E-Commerce	15
2	Warehouse and E-logistics	15
3	Introduction to Supply Chain Management (SCM)	15
4	Logistics/Supply Chain Management in the Global Environment-	15
Total		60

SN	Modules/ Units
1	Logistic in E-Commerce
	<ul style="list-style-type: none"> • Logistic in E-commerce – Features, Significance, Evolution, E-Commerce logistics in developed market, • ICT infrastructure for future logistics, E- logistics for transport modes and nodes, Airfreight, Rail-freight, Road-freight, Sheep-Freight • Automating E-logistics- B2C E-commerce fulfillment, E-fulfillment dimension, Inventory Management
2	Warehouse and E-logistics
	<ul style="list-style-type: none"> • Warehouse Management System (WMS)- Functions, Connectivity of WMS solution into ERP, Warehousing challenges of e-commerce, • Radio Frequency Identification (RFID)- Cost and benefits, RFID to enhance data capture processes in warehouse environment • GS1 keys used in logistics and E-procurement, The Global Data Synchronization Network (GDSN), Electronic Product Code Information System (EPCIS)
3	Introduction to Supply Chain Management (SCM)
	<ul style="list-style-type: none"> • SCM- Concept, Significance, IT applications, Evolution of global SCM • Value Chain Management- Concepts and features, Challenges, Sustainability • E-Supply Chain planning(Component); E-Supply chain fusion; Channel Management and Channel Integration
4	Logistics/Supply Chain Management in the Global Environment-
	<ul style="list-style-type: none"> • Managing the Global Supply Chain, Impact of Globalization on Logistics and Supply Chain Management, • Global Logistics Trends, Global Issues and Challenges in Logistics and Supply Chain Management. • New trends in logistics and SCM- Technology in SCM, Artificial intelligence, Single window system for Global SCM

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Group D: E-Commerce

**5. Business Models in E-Commerce & ICT
Applications**

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to E-enterprise and Business Models	15
2	E-commerce Business Models	15
3	Introduction to Information Communication Technology(ICT)	15
4	Vital ICT Applications	15
Total		60

SN	Modules/ Units
1	Introduction to E-enterprise and Business Models
	<ul style="list-style-type: none"> • E-Commerce and E-enterprise- Concepts, Features, types of Business models, Difference between E-commerce and E-business, • Eight key elements of a business model, E-tailing Business Models, Primary revenue Models in e-commerce. • e-Commerce Process Models: E-business Models Based on the Relationship of Transaction Parties, e-commerce Sales Life Cycle (ESLC) Model, selection of E-commerce business model
2	E-commerce Business Models
	<ul style="list-style-type: none"> • E-commerce Business Models: Business models in emerging E-commerce areas, Business to Consumer (B2C)- Characteristics, Process. • Business to Business (B2B)- Characteristics, Importance, Alternative models of B2B, Features of C2C and C2B • Marketing and Business strategies: B2C and B2B E-commerce, Role of Websites in B2C
3	Introduction to Information Communication Technology(ICT)
	<ul style="list-style-type: none"> • Evolution of computers – Features and design – Managing Hardware, Software, Computer Languages . Operating Systems – DOS • Information Communication Technology(ICT)- Concept, Importance, Components, Use of ICT in E-commerce, • Role of ICT in driving E-commerce business, ICT and E-commerce relationship, ICT Infrastructure and E-commerce
4	Vital ICT Applications
	<ul style="list-style-type: none"> • E-Governance: Models – G2G, G2B, G2C, Benefits and risks of E-Governance, ICT in manufacturing – overview of CAD in conjunction with CAM, • E-environment- Geographical Information System (GIS) weather forecasting, E-education- statistical packages (SPSS), Computer aided learning/e-learning in schools and over the Internet. • E-health –Stress, Repetitive Strain Injury (RSI), Eyestrain, Extremely Low Frequency (ELF) radiation. Computers, health and the law.

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Semester IV

No. of Courses	Semester IV	Credits
1	<i>Elective Courses (EC)</i>	
<i>Group A: Advanced Accounting, Corporate Accounting and Financial Management (Any Three out of Five)</i>		
1	Corporate Financial Accounting	06
2	Indirect Tax- Introduction of Goods and Service Tax	06
3	Financial Management	06
4	International Financial Reporting Standards	06
5	Personal Financial Planning	06
Total Credits		18

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Master of Commerce (M.Com) Programme at Semester IV
(To be implemented from Academic Year- 2017-2018)**

**Group A: Advanced Accounting, Corporate Accounting and
Financial Management**

1. Corporate Financial Accounting

Modules at a Glance

SN	Modules	No. of Lectures
1	Corporate Financial Reporting	15
2	International Financial Reporting Standards (IFRS) & Ind - AS	15
3	Valuation of Business for Amalgamation & Merger	15
4	Consolidated Financial Statement	15
Total		60

SN	Modules/ Units
1	Corporate Financial Reporting
	<ul style="list-style-type: none"> • Introduction of Financial Reporting • Need for reporting • Contents of Financial Report • Recent trends in Financial reporting
2	International Financial Reporting Standards (IFRS) & Ind - AS
	<ul style="list-style-type: none"> • Accounting Standards (AS) – applicability, interpretation, scope and compliance in India • Introduction to I.F.R.S • Ind – AS • Specific Ind AS: <ul style="list-style-type: none"> Borrowing Costs Operating Segments Earning per share Income Taxes Accounting for fixed assets
3	Valuation of Business for Amalgamation & Merger
	<p>Meaning, Need & Approach</p> <p>Methods of valuation</p>
4	Consolidated Financial Statement
	<p>Meaning, Stand Alone Financial Statements</p> <p>Consolidated Financial statements – Applicability, Advantages & Disadvantages</p> <p>Procedure of Consolidation of Balance-sheet & Profit & Loss Account (Excluding cross holding, Chain Holding & Foreign Subsidiary)</p>

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**Group A: Advanced Accounting, Corporate Accounting and
Financial Management**

**2. Indirect Tax- Introduction of Goods and
Service Tax**

Modules at a Glance

SN	Modules	No. of Lectures
1	Overview of Goods and Service Tax	15
2	Registration under GST	15
3	Collection of Tax under Integrated Goods and Services Tax Act, 2017	10
4	Place of supply of goods or services or both under Integrated Goods and Services Tax Act, 2017	10
5	Payment of GST	10
Total		60

SN	Modules/ Units
1	Overview of Goods and Service Tax
	Introduction and Meaning of GST and IGST Scope of GST Present/old Tax Structure v/s GST GST in Other Countries Existing taxes proposed to be subsumed under GST Principles adopted for subsuming the taxes Dual GST Benefits of GST GST Council GST Network (GSTN) and GST regime Integrated Goods and Services Tax Act, 2017: title and definitions, administration.
2	Registration Under GST
	Rules and Procedure of registration Special provisions relating to casual taxable person and non-resident taxable person Amendment of registration Cancellation of registration Revocation of cancellation of registration
3	Collection of Tax under Integrated Goods and Services Tax Act, 2017
	Sec 5 and Sec 6
4	Place of supply of goods or services or both under Integrated Goods and Services Tax Act, 2017
	Sec 10 and Sec 12
5	Payment of GST
	<ul style="list-style-type: none"> • Introduction • Time of GST Payment • How to make payment • Challan Generation & CPIN • TDS & TCS

Note: Relevant Law/Statute/Rules in force and relevant Standards in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuring examination after relevant year

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**Group A: Advanced Accounting, Corporate Accounting and
Financial Management**

3. Financial Management

Modules at a Glance

SN	Modules	No. of Lectures
1	Types of Financing	12
2	Investment Decisions : Capital Budgeting	12
3	Management of Working Capital	12
4	Financial Planning	12
5	Financial Policy and Corporate Strategy	12
Total		60

SN	Modules/ Units
1	Types of Financing
	<p>Introduction Needs of Finance and Sources: Long Term, Medium Term, Short Term Long Term Sources of Finance Owners Capital / Equity Capital Preference share capital Retained Earning Debentures or Bonds Loans from Financial Institutions / Banks Short Term Sources of Finance Trade Credit Accrued Expenses and Deferred Income Advances From Customers Commercial Papers Bank Advances:Loans, O/D, Clean O/Ds, Cash Credit, Advances against goods, Bills Purchased, Discounted, Advances against documents of title of goods, Advances against supply of bills, Term Loans Inter Corporate Deposits Certificate of Deposits Public Deposits</p>
2	Investment Decisions : Capital Budgeting
	<ul style="list-style-type: none"> • Introduction • Nature of Capital Budgeting • Purpose of Capital Budgeting • Capital Budgeting Process • Types of Capital Investment • Decisions Project Cash Flows and Net profit Approval • Basic Principle of Measuring Project Cash Flows • Increment principle, Long Term Funds Principle, Exclusion of Financial Cost Principle, Post Tax Principle • Probability technique for measurement of cash flow • Capital Budgeting Techniques : Net Return Value; Internal Rate of Return; Profitability Index Methods • A Comparison; Project Selection Under Capital Rationing • (Note: Problems on computation of cash flow, ranking of projects on various techniques, selection and analysis with / without capital rationing. Comparison of IRR with Required rate of return i.e. cut off rate, IRR and mutually exclusive projects with unequal lives, multiple IRR)

SN	Modules/ Units
3	Management of Working Capital
	Meanings, Concepts and policies of working capital Management of working capital Issues in working capital Estimating working capital needs (only Theory) Operating or working capital cycle (only Theory) Management of components of working capital <ul style="list-style-type: none"> • Management of Cash and Marketable Securities: Motives for Holding Cash; Objectives of Cash Management; Factors Determining Cash Needs; Basic Strategies of Cash Management; Cash Management Techniques / Processes; Marketable Securities; and Cash Management Practices in India. • Receivable Management: Objectives; Credit Policies; Credit Terms; and Collection Policies. • Inventory Management: Objectives; and Techniques.
4	Financial Planning
	<ul style="list-style-type: none"> • Introduction • Meaning of Budget • Essentials of a budget, • Types of Budgets • Advantages of Budgeting • Zero Based Budget • (Note: Practical Questions on Sales Budget, Production Budget, Material Budget, Cash Budget and Master Budget)
5	Financial Policy and Corporate Strategy
	<ul style="list-style-type: none"> • Meaning of strategic financial management • Strategic financial decision making framework • Functions of Strategic Financial Management • Financial Planning

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**Group A: Advanced Accounting, Corporate Accounting and
Financial Management**

4. International Financial Reporting Standards

Modules at a Glance

SN	Modules	No. of Lectures
1	Conceptual Foundations of Financial Statements	15
2	Presentation of Financial statements	15
3	Indian Accounting Standards for Assets, Liabilities and Revenue	15
4	Presentation of Single Entity Financial Statements Covered by IFRS Convergence	15
Total		60

SN	Modules/ Units
1	Conceptual Foundations of Financial Statements
	<ul style="list-style-type: none"> • The objective of financial reporting; • The main assumptions; • Qualitative characteristics of financial reporting; • Elements of Financial Statements: recognition and measurement
2	Presentation of Financial statements
	<p>Presentation of financial statements Accounting standards: Role/objectives of accounting standards, Development of accounting standards in India - Requirements of international accounting standards - International organizations engaged in accounting harmonization - IASB - FASB - Role of IASB in developing IFRS IFRS :- Introduction, scope Indian Accounting standards (Ind AS) : Introduction Road map Comparison of Ind AS, IFRS and AS Conceptual framework Definition of financial elements Principles of recognition, measurements, presentation and disclosure. (Theory and Practical)</p>
3	Indian Accounting Standards for Assets, Liabilities and Revenue
	<p>Valuation of Inventories Cash flow statement Accounting for tangible non-current assets Accounting for intangible assets Accounting for impairment of assets Accounting for borrowing costs Investment property Revenue from contracts with customers Income tax Employee benefits Provisions, contingent liabilities and contingent assets (Theory and Practical)</p>
4	Presentation of Single Entity Financial Statements Covered by IFRS Convergence
	<p>Ind AS 1: Accounting policies, Accounting estimates IAS 8 and Ind AS 8- Events after reporting date IAS 10 and Ind AS 10 - Structure and contents of financial statements Preparation of financial statements: Statement of Financial Position (SOFP) - Statement of Profit or Loss (SOPL) - Statement of Changes in Equity (SOCE) - Cash Flow Statement (SOCF) (IAS 7 and Ind AS 7). (Theory and Practical)</p>

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**Group A: Advanced Accounting, Corporate Accounting and
Financial Management**

5. Personal Financial Planning

Modules at a Glance

SN	Modules	No. of Lectures
1	Understanding Personal Finance	15
2	Risk Analysis & Insurance Planning	15
3	Retirement Planning & Employees Benefits	15
4	Investment Planning	15
Total		60

SN	Modules/ Units
1	Understanding Personal Finance
	Introduction <ul style="list-style-type: none"> • Time value of money applications • Personal financial statements, Cash flow and debt management, tools and budgets Money Management <ul style="list-style-type: none"> • Tax planning • Managing Checking and Savings Accounts • Maintaining Good Credit • Credit Cards and Consumer Loans • Vehicle and Other Major Purchases • Obtaining Affordable Housing Income and Asset Protection <ul style="list-style-type: none"> • Managing Property and Liability Risk • Managing Health Expenses
2	Risk Analysis & Insurance Planning
	<ul style="list-style-type: none"> • Risk management and insurance decision in personal financial planning, • Various Insurance Policies and Strategies for General Insurance, Life Insurance, Motor Insurance, Medical Insurance.
3	Retirement Planning & Employees Benefits
	Retirement need analysis techniques, Development of retirement plan, Various retirement schemes such as Employees Provident Fund (EPF), Public Provident Fund (PPF), Superannuation Fund, Gratuity, Other Pension Plan and Post-retirement counselling.
4	Investment Planning
	Risk Return Analysis Investing in Stocks and Bonds ,Mutual Fund, Derivatives, Investing in Real Estate, Asset Allocation, Investment strategies and Portfolio construction and management.

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Semester IV

No. of Courses	Semester IV	Credits
1	<i>Elective Courses (EC)</i>	
<i>Group B: Business Studies (Management)</i> <i>(Any Three out of Five)</i>		
1	Supply chain management and logistics	06
2	Advertising and sales Management	06
3	Retail Management	06
4	Tourism Management	06
5	Management of Business Relations	06
Total Credits		18

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Group B: Business Studies (Management)

1. Supply chain management and logistics

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Supply Chain Management	15
2	Perspectives of SCM	15
3	Introduction to Logistics	15
4	Design of SCM, Logistics and Use of Internet	15
Total		60

SN	Modules/ Units
1	Introduction to Supply Chain Management (SCM)
	<ul style="list-style-type: none"> • Supply Chain Management: Concept, Features, Evolution, Importance, Process and Barriers of Supply Chain Management. • Principles and Strategies: Principles, Supply Chain Strategies – Organizations, Coordination, Innovation and Forecasting. • Participants in SCM: Supply chain intermediaries- Concept and Types, Channels of Distribution for Industrial Goods and Consumer Goods, Channel of Distribution at Services Level, Factors for selection of suitable channels.
2	Perspectives of Supply Chain Management
	<ul style="list-style-type: none"> • Global perspectives: Measuring and analyzing the value and efficiency of global Supply Chain Networks, Global market forces, Types of global supply chain. • Indian Perspectives: Measuring and Analyzing the value and efficiency of domestic Supply Chain Networks, Economic effects of supply chains. • Customer Perspectives: Customer values, Role of customers and Ways of improving customer services in SCM.
3	Introduction to Logistics
	<ul style="list-style-type: none"> • Logistics Management: Concept and Process, Competitive Advantages and Three C's, Changing Logistics Environment, Reverse Logistics, Importance of Inventory Control, Bull-whip effect • Transportation and Warehousing: Transport Functions and Participants in Transportation Decisions, Transport Infrastructure- Forms, Warehouse Functions and Operations • Packaging and Materials Management- Consumer and Industrial Goods Packaging - Importance, Factors influencing Materials Planning, Preservation Safety and Measures of Materials Handling
4	Design of SCM, Logistics and Use of Internet
	<ul style="list-style-type: none"> • SCM Plan- Demand Planning, Source of Procurement, Production or Assembly Steps, Sales return of defective or excess goods • Use of Internet in SCM- E-market places, E-procurement, E-logistics, E-fulfilment, • Operative Systems in SCM: Enterprise Resource Planning (ERP), Performance Modelling of supply chains using Markov chains, Inventory Control-Importance, Pareto's Law

**Revised Syllabus of Courses of
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Group B: Business Studies (Management)

2. Advertising and sales Management

Modules at a Glance

SN	Modules	No. of Lectures
1	Advertising Fundamentals and Media	15
2	Creativity, Social and Regulatory Framework of Advertising	15
3	Sales Management	15
4	Sales Planning and Controlling	15
Total		60

SN	Modules/ Units
1	Advertising Fundamentals and Media
	<ul style="list-style-type: none"> ▪ Basics of Advertising : Concept and Features, Significance, Classification of Advertising, Integrated Marketing Communication (IMC) - Elements, Behavioural Model (E.K. Strong AIDA), DAGMAR Model (Russell Colley), Hierarchy of Effects (Lavidge and Steiners) ▪ Ad Agency : Various Functional Department, Types, Measures for gaining and reasons for losing clients, Evaluation Criteria for Selecting an Advertising Agency, ▪ Media : New Media Options, Forms of Digital Media, Media Objectives, Criteria for Selecting Suitable Media, Methods of Setting Advertising Budget
2	Creativity, Social and Regulatory Framework of Advertising
	<ul style="list-style-type: none"> ▪ Creativity & Research: Developing advertising copy - print, broadcast and digital media, Pre-test and post-test methods. ▪ Society: Socio-economic contribution and criticisms of advertising, professional courses and careers in the field of advertising ▪ Regulatory framework of advertising: Legal Framework of Advertising, Role of Information and Broadcasting Ministry (IBM), Self-Regulatory Bodies – Advertising Standards Council of India (ASCI) and Indian Broadcasting Foundation (IBF)
3	Sales Management
	<ul style="list-style-type: none"> ▪ Introduction : Sales Management - Features, Functions and Importance, Art of Selling – Types, Process, Qualities of an Effective Salesman. ▪ Sales force management : Selection Procedure, Training Methods, Motivational Factors and Compensation methods of sales personnel ▪ Sales organization : Concept, Objectives, Structure and Steps in Developing a Sales Organisation
4	Sales Planning and Controlling
	<ul style="list-style-type: none"> ▪ Sales planning : Concept, Process, Sales Forecasting - Methods and Limitations ▪ Sales controlling : Concept of Sales Budget and Sales Audit, Sales Quota - Methods and Types, Objectives and Factors Determining and Designing Sales Territory ▪ Recent trends - Importance of Customer Feedback, Sales Management - Data Mining, Role of IT

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Group B: Business Studies (Management)

3. Retail Management

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Retail Management	15
2	Retail Management Strategy	15
3	Retail Location, Layout and Merchandising	15
4	Use of Technology and Career options	15
Total		60

SN	Modules/ Units
1	Introduction to Retail Management
	<ul style="list-style-type: none"> • Retailing: Concept, Scope and Importance of Retailing and Retail Management, Retail Formats, Theories of Retail change, Retail Environment- Economic, Legal, Technological & Competitive • Retail sector in India: Size, and Drives of Retail changes, FDI in Retailing in Indian Context • Recent Trends in Retailing: Modern Retail Formats, Mall System, Challenges Faced by the Retail Sector, Ethics in Retailing.
2	Retail Management Strategy
	<ul style="list-style-type: none"> • Retail Strategies: Promotional Strategies, Retail Planning Process, Retail - Market Segmentation - Concept and Significance • Relationship Marketing Strategies: CRM in Retailing, Retail Value Chain, Retail life Cycle, HRM in retailing- Growing importance of HR and Challenges faced by HR in retailing • Consumer Strategies: Consumer Behaviour in Retail Context, Buying Decision Process, Customer Service as a Part of Retail Strategy.
3	Retail Location, Layout and Merchandising
	<ul style="list-style-type: none"> • Retail Location & Merchandising: Importance, Types, Steps involved in choosing a Retail Location. • Merchandising: Concept and Merchandising Planning Process, Retail Branding, Merchandising Buying, Visual Merchandising • Store Design and Layout: Store Design - Elements, Store Layout - Importance, Steps for Designing
4	Use of Technology and Career options
	<ul style="list-style-type: none"> • Technologies: Use of Technologies in retailing - Electronic Data Interchange (EDI), Radio Frequency Identification (RFI), Data Base Management system • E-Retailing: Formats, Challenges, Green Retailing - Concept and Importance • Retail as a Career: Various Career Options, Responsibilities of Store Manager, Functions of Merchandising Manager

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Group B: Business Studies (Management)

4. Tourism Management

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Tourism Management	15
2	Tourism Marketing	15
3	Tourism Practices	15
4	Tourism Development	15
	Total	60

SN	Modules/ Units
1	Introduction to Tourism Management
	<ul style="list-style-type: none"> • Tourism – Concept, Characteristics Importance and Types of Tourism • Tourism Industry: Concept, Nature, Structure and Components, Career options in Tourism. • Tourism Destination: Concept, Elements, Tourism Destination Planning – Process and Importance.
2	Tourism Marketing
	<ul style="list-style-type: none"> • Tourism Product: Concept, Characteristics, Types, Tourism Product Planning- Need and Importance. • Tourism Pricing: Influencing factors, Pricing objectives, Tourism Pricing Policies • Tourism Promotion: Importance, Elements of Tourism Promotion, Role of Advertising, Promotional Plan – Implementation Procedure
3	Tourism Practices
	<ul style="list-style-type: none"> • Travel Intermediaries: Travel Agency and Tour operators – Definition and Differentiation, Types, Importance and Functions. • Setting up of Travel Agency and Tour Operations and their Approval: Business setting Procedure and process, Types of organization to be set up- Proprietorship, Partnership, Franchise, Approval from Ministry of Tourism and IATA • International Tourism: Concept, Importance, Role of Institutions and organizations in promoting International Tourism -WTTC , IATO, TAAI, ITDC.
4	Tourism Development
	<ul style="list-style-type: none"> • Sustainable Tourism Development: Concept, Principles, Approaches to Sustainable Tourism, Code of Conduct for safe and sustainable Tourism in India • Government Policies: National Action Plan, National Tourism Policy, Government incentives for Tourism Development and Promotion. • Future Growth and Development of Indian Tourism - Factors influencing growth of Tourism Industry in India, Major Tourism schemes of Government of India- Visa on Arrival (VoA), PRASAD Scheme, HRIDAY Scheme, Travel Circuits; Incredible India Campaign.

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Group B: Business Studies (Management)

5. Management of Business Relations

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Management of Business Relations	15
2	Customer and Channel Relationship Management	15
3	Employee Relationship Management	15
4	Supplier, Investors and Community Relationship Management	15
	Total	60

SN	Modules/ Units
1	Introduction to Management of Business Relations
	<ul style="list-style-type: none"> • Business Relations - Need , Importance of Business relations, Business Relationship Management (BRM) Competencies. • Business Relation Manager- Role, qualities, Skills. • Business Relations- Principles, Steps , Trends, Impact of Communication on Business Relations.
2	Customer and Channel Relationship Management
	<ul style="list-style-type: none"> • Customer Relations Management: Concept, Characteristics of an empowered customer, Approaches &Types, Role of Customer Relations Manager. • Designing and developing customer Value- Turning customers to loyal clients, Strategic Framework for CRM, E-CRM: Concept and Benefits, Steps, Successful CRM implementation. • Channel Relationship - Concept, importance , Challenges, Elements contributing to effective channel relationships.
3	Employee Relationship Management
	<ul style="list-style-type: none"> • Employee Relationship Management - Concept, Objectives of Employee Relations , Approaches to Employee Relations, • Role of Employee Relations Manager, Prospects & Importance of Industrial Relations, Problems & Challenges of Employee Relations, Key Drivers for shifting from Industrial Relations to Employee Relations, • Strategic Framework for ERM,Factors influencing ERM, Essentials of an effective ERM, ERM strategy.
4	Supplier, Investors and Community Relationship Management
	<ul style="list-style-type: none"> • Supplier Relations – Concept, Supplier Segmentation Pyramid, Supplier Improvement Process for better relations, Challenges. • Investors Relations –Concept, Focus, Keys to successful investors relations, Enhancing shareholders loyalty and retention. • Stakeholder relations- Types of stakeholders, Role of business in social development, strategies to improve community relations, impact of community relations on business.

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Semester IV

No. of Courses	Semester IV	Credits
1	<i>Elective Courses (EC)</i>	
<i>Group C: Banking and Finance (Any Three out of Five)</i>		
1	International Finance	06
2	Financial Services	06
3	Auditing of Banking Sector	06
4	Investment Management	06
5	Currency Derivatives	06
Total Credits		18

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Master of Commerce (M.Com) Programme at Semester IV
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Group C: Banking and Finance

International Finance

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to International Finance	15
2	International Monetary System and Foreign Exchange Market	15
3	Currency Futures and Options	15
4	Global Financial Market	15
	Total	60

SN	Modules/ Units
1	Introduction to International Finance
	<p>A) Introduction to International Finance – Meaning, Scope of International Financial Management, Factors contributing to growth in International Finance, Recent Changes in Global Financial Markets.</p> <p>B) Balance Of Payments – Meaning, Components, Factors- Deficit and Surplus in BOP , Capital Account Convertibility and Current Account</p>
2	International Monetary System and Foreign Exchange Market
	<p>A) International Monetary System – Introduction to Exchange rate regime, The International Monetary Fund - Objectives and Funding Facilities, International Liquidity and Special Drawing Rights and Introduction to The European Monetary System</p> <p>B) Foreign Exchange Market - Major Participants in Spot market and Forward market, Exchange Rate Quotation, Determination of exchange rates in spot and forward market, Factors influencing exchange rates and Types of Foreign Exchange Rates and Interest rate</p>
3	Currency Futures and Options
	<p>A) Currency Futures - Futures Contracts, Features, Trading Process- Hedging in currency futures market and Speculation in currency futures market, Determination of Futures prices, Forward prices and expected spot prices on delivery.</p> <p>B) Currency Options: Features, Terminology, Types of options, options pricing, hedging with currency options and Speculation with currency options.</p>
4	Global Financial Market
	<p>A) International Instruments – Introduction, Gains from International Market International Equities and Bonds Market, Short term and Medium term Instruments and Types of risks and tools.</p> <p>B) Multilateral Development Banks - The World Bank, International Finance Corporation, Asian Development Bank – Introduction, Characteristics and Functions.</p>

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Group C: Banking and Finance

Financial Services

Modules at a Glance

SN	Modules	No. of Lectures
1	Evolution of Financial Services	15
2	Marketing of Financial Services	15
3	Mutual Funds and Merchant Banking	15
4	Portfolio Management and Other Financial Services	15
	Total	60

SN	Modules/ Units
1	Evolution of Financial Services
	<p>A) Evolution of Financial Services - Meaning of Financial Services, Types of Financial Services, Fund based and Non-fund based , Significance of Financial Services , Growth of Financial Services in India , Emerging Trends in Financial Services and constraints in growth of financial services.</p> <p>B) Regulatory Framework for Financial Services – Role of RBI, Role of SEBI , Provisions of Companies Act , Role of FEMA and Ethical issues in the Marketing of Financial services.</p>
2	Marketing of Financial Services
	<p>A) Categories of Financial Products – Insurance, Banks, Stocks, Mutual Funds, Pension Plans, other Savings Products, Financial Services Marketing Environment –Micro and Macro Environmental Forces , Marketing Mix for Financial Services, Promotional Strategies, Customer Relations and Servicing.</p> <p>B) Treasury Management – Structure and Organization, Functions and Responsibilities of a Treasurer, Cost Centre, Profit Centre, Integrated Treasury, Treasury and Asset Liability Management, Liquidity Management: CRR/CCIL/RTGS and Types of Exposure and Elimination of Exposure</p>
3	Mutual Funds and Merchant Banking
	<p>A) Mutual Funds Concept – History of Mutual fund Industry in India , Advantages Different Scheme, Fund Accounting and Valuation (Practical Problems on Mutual Fund)</p> <p>B) UTI: Objective, Functions, Regulation, Performance Measurement and Evaluation of Mutual Fund Schemes, Unit holder’s Protection.</p> <p>C) Merchant Banking – Facets of Merchant Banking, Functions, Legal and Regulatory Frameworks, Relevant Provisions of Companies Act , SEBI Guidelines, Role in Issue Management, Appraisal of Projects, Designing Capital Structure and Instruments and Issue Pricing</p>
4	Portfolio Management and Other Financial Services
	<p>A) Portfolio Management Services - Meaning, Importance, Objectives, Strategies, Types of Strategies – Passive & Active Strategies, Role of Portfolio Managers.</p> <p>B) Other Financial Services – Leasing and Hire Purchase, Factoring and Forfaiting, Consumer Finance, Securitization, Venture Capital, Loan Syndication, Custodial and Depository Services, Credit rating</p>

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Group C: Banking and Finance

Auditing of Banking Sector

Modules at a Glance

SN	Modules	No. of Lectures
1	Auditing Concepts	15
2	Auditing of Banks	15
3	Verification of Assets and Balances of Banking Companies	15
4	Introduction to Concurrent Audit	15
	Total	60

SN	Modules/ Units
1	Auditing Concepts
	<ul style="list-style-type: none"> • Nature, Scope and Significance of Auditing • Audit Engagement, Audit Program, Audit Working Papers, Audit Note Book, Audit Evidence
2	Auditing of Banks
	<ul style="list-style-type: none"> • Meaning and Appointment of Bank Auditors • Internal control system in Banks • Categories of Bank Audit: Concurrent audit, Internal Audit/ Information Systems Audit and Statutory audit • Banking Regulation Act in pursuant to accounts and auditing of banking companies - Sec 29 to Sec 34A • Guidance Note on Audit of Banks by ICAI
3	Verification of Assets and Balances of Banking Companies
	<ul style="list-style-type: none"> • Cash, bank balances, money at call and short notice • Investments • Advances • Fixed assets • Other assets • Capital • Reserves and surplus • Deposits • Borrowings • Other liabilities and provisions
4	Introduction to Concurrent audit
	<ul style="list-style-type: none"> • Concurrent audit system : Meaning, scope, coverage, Types of activities, Appointment of auditors and reporting • Internal Audit/ Information Systems Audit – Meaning, Scope • Statutory audit of banks/bank branches • Audit of bank branch and reporting

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Group C: Banking and Finance

Investment Management

Modules at a Glance

SN	Modules	No. of Lectures
1	Portfolio Management – An Introduction	10
2	Portfolio Revision and Evaluation	15
3	Fundamental and Technical Analysis	20
4	Efficient Market Theory and CAPM	15
	Total	60

SN	Modules/ Units
1	<p>Portfolio Management – An Introduction</p> <p>A) Portfolio Management – An Introduction Investment - Meaning, Characteristics, Objectives, Investment V/s Speculation, Investment V/s Gambling and Types of Investors Portfolio Management – Meaning, Evolution, Phases, Role of Portfolio Managers, Advantages of Portfolio Management. Investment Environment in India and factors conducive for investment in India.</p> <p>B) Portfolio Analysis and Selection Portfolio Analysis – Meaning and its Components, Calculation of Expected Return and Risk, Calculation of Covariance, Risk – Return Trade off. Portfolio Selection – Meaning, Feasible Set of Portfolios, Efficient Set of Portfolios, Selection of Optimal Portfolio, Markowitz Model, Limitations of Markowitz Model, Measuring Security Return and Portfolio Return and Risk under Single Index Model and Multi Index Model.</p>
2	<p>Portfolio Revision and Evaluation</p> <p>A) Portfolio Revision and Evaluation - Portfolio Revision – Meaning, Need, Constraints and Strategies. Portfolio Evaluation – Meaning, Need, Measuring Returns (Sharpe, Treynor and Jensen Ratios) and Decomposition of Performance.</p> <p>B) Bond Valuation– Meaning, Measuring Bond Returns – Yield to Maturity, Yield to call and Bond Pricing. Bond Pricing Theorems, Bond Risks and Bond Duration. (Practical Problems on YTM and Bond Duration)</p>
3	<p>Fundamental and Technical Analysis</p> <p>A) Fundamental Analysis - Economy Analysis – Meaning, Framework of Economic Analysis, Forecasting, Barometric or Indicator Approach, Econometric Model Building and Opportunistic Model Building. Industry Analysis – Concept of Analysis, Industry Life Cycle, Industry Characteristics. Company Analysis – Financial Statements, Analysis of Financial Statements, (Practical questions on Debt equity ratios, total debt ratio, proprietary ratios, interest coverage ratio, Profitability ratios related to sales, investment, equity shares and Efficiency or Activity Ratios) and Assessment of risk (Leverages)</p> <p>B) Technical Analysis - Dow Theory , Meaning and Principles of Technical Analysis, Price Chart, Line Chart, Bar Chart, Japanese Candlestick Chart, Trends and Trends and Trend Reversals, Chart Patterns, Support and Resistance, Reversal Patterns, Continuation Patterns and Elliot Wave Theory, Mathematical Indicators – Calculation of Moving Averages (Simple and Exponential Moving Average), Oscillators and Relative strength Index, Market Indicators and Fundamental Analysis V/s Technical Analysis</p>
4	<p>Efficient Market Theory and CAPM</p> <p>A) Efficient Market Theory - Random Walk Theory, The Efficient Market Hypothesis , Forms of Market Efficiency , Competitive Market Hypothesis</p> <p>B) CAPM- Fundamental Notions of Portfolio Theory, Assumption of CAPM, Efficient Frontier with Riskless Lending and Borrowing, Capital Market Line, Security Market Line and Pricing of Securities with CAPM. Arbitrage Pricing Theory (APT) – The Return Generating Model, Factors Affecting Stock Return, Expected Return on Stock, APT V/s CAPM.</p>

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Group C: Banking and Finance

Currency Derivatives

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Currency Markets	15
2	Regulatory Framework for Currency Derivatives	15
3	Strategies using Currency Derivatives	15
4	Clearing and Settlement of Currency Futures	15
	Total	60

SN	Modules/ Units
1	Introduction to Currency Markets
	<p>A) Introduction to Currency Markets – Brief history of foreign exchange markets, Major Currency pairs, Overview of international currency markets, Basics of currency markets and peculiarities in India, Settlement date or value date, OTC forward rate, Exchange Rate arithmetic cross rate, Impact of market economics on currency prices and economic indicators</p> <p>B) Foreign Exchange Derivatives – Definition, Products , Growth drivers of derivatives, Market Players, Key economic function of derivatives, Financial Market stability: Exchange traded V/s OTC derivatives.</p>
2	Regulatory Framework for Currency Derivatives
	<p>A) Regulatory Framework for Currency Derivatives – Applicability of Securities Regulation Act, 1956, RBI-SEBI standing technical committee on exchange traded currency and interest rate derivatives, Foreign Exchange Management Act, 1999 – Provisions, Regulatory framework for exchanges, Regulatory framework for clearing corporations, Governing council of the exchange and clearing corporation and Eligibility criteria for members.</p> <p>B) Code of Conduct and Investor Protection - Adherence to SEBI codes of conduct for brokers/ sub-brokers, Adherence to codes of conduct specific to currency derivatives segment, Grievance redressal mechanism for investors.</p>
3	Strategies using Currency Derivatives
	<p>A) Strategies using Currency Derivatives – Market Participants – Hedgers, Speculators, Arbitrageurs, Computing pay offs from a portfolio of futures and trade remittances, Using foreign currency futures for hedging various kinds of foreign exchange exposures, Use of currency futures by speculators and arbitrageurs, trading spreads using currency futures, limitations of currency futures for hedgers.</p> <p>B) Trading in Currency Futures - Currency futures contract specification, Other terminologies with respect to contract specifications, Trader workstation screen (TWS), Entities in the trading system, Types of orders, Price Limit Circuit Filter and Rules, regulations and bye laws of Exchange.</p>
4	Clearing and Settlement of Currency Futures
	<p>A) Clearing and Settlement in Currency Futures- Clearing vs. Settlement, Clearing entities, Clearing mechanism, Regulatory guidelines on open position limits and Settlement mechanism.</p> <p>B) Risk Management in Currency Futures - Risk management measures, Margin requirements, Mark-to-Market, Settlement, Margin collection and enforcement, Periodic Risk Evaluation Report, Surveillance and Unique Client Code (UCC).</p>

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Semester IV

No. of Courses	Semester IV	Credits
1	<i>Elective Courses (EC)</i>	
<i>Group D: E-Commerce (Any Three out of Five)</i>		
1	E-Commerce Security and Law	06
2	Advance technology for E-Commerce	06
3	Management Information System	06
4	Digital Marketing	06
5	International Business, Law and Taxation	06
Total Credits		18

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Group D: E-Commerce

1. E-Commerce Security and Law

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to E-Commerce Security	15
2	Security Threats and Measures	15
3	Introduction to Cyber Law	15
4	Cyberspace Laws	15
Total		60

SN	Modules/ Units
1	Introduction to E-Commerce Security
	<ul style="list-style-type: none"> • E-commerce security: Concept, Need/Importance, Security Issues in E-Commerce- Security risks of e-commerce, • Threats and Risk Management: Type of threats, Sources of threats, Security tools & Risk – Types of security, management approach • Network Security: Encryption, Protecting Web server with a Firewall, Firewall and the Security Policy, Network Firewalls and Application Firewalls, Proxy Server
2	Security Threats and Measures
	<ul style="list-style-type: none"> • Current threats, Cryptography, public key certificates and infrastructures, authentication and authorization certificates, • Mobile code security, security of agent-based systems, secure electronic transactions, electronic payment systems, intellectual property protection, • Symmetric and Asymmetric Cryptosystem, Role of electronic signature, EDI Security
3	Introduction to Cyber Law
	<ul style="list-style-type: none"> • Introduction to Cyber Laws-World Scenario, Cyber-crime& Laws in India and their limitations, • Threats in Computer Systems: Virus, Cyber Crime, Hacking, Web Vandals, E-mail Abuse, Software Piracy and Patents. • The problems of internet jurisdictions, Law relating to Electronic records, Importance of Electronic Records as Evidence.
4	Cyberspace Laws
	<ul style="list-style-type: none"> • Cyberspace and Internet in India- Penalties, Offences and Compensation • Protection of Cyber Consumers in India and CPA 1986, International efforts related to cyberspace laws, Trace an IP address, • Security Tools, Client server network security, Encryption and concepts of public and private key infrastructure

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Group D: E-Commerce

2. Advance technology for E-Commerce

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Advanced technology for E-commerce	15
2	Information Publishing Technology	15
3	E-commerce Success with Content Marketing	15
4	New Trends	15
	Total	60

SN	Modules/ Units
1	Introduction to Advanced technology for E-commerce
	<ul style="list-style-type: none"> • Advanced technology for E-commerce: Concept of E-commerce, Internet & WWW, Functions, • Types of technology, Electronic Data Interchange (EDI)- Benefits, Transaction and examples, Multimedia technology – desktop Video Conferencing • Securing Network Transaction: Cryptology, Digital Signature, E-mail security
2	TCP/IP and Information Publishing Technology
	<ul style="list-style-type: none"> • Internet Protocols – OSI Model, TCP/IP, FTP; LAN, WAN • Information Publishing Technology - HTML, URL, HTTP, HTML FORM, CGI SERVICES, • eXtensible Markup Language (XML) – Application and Architecture, Data Mining and Web Mining
3	Mobile Agents& WAP
	<ul style="list-style-type: none"> • Mobile Agents- Concept, Mobility and security issues, Client Server Approach v/s Mobile Agent based approach, • Mobile computing, Mobile users in Global E-commerce, Coalition Formation • Wireless Application Protocol (WAP) - Benefits and Architecture, Web Server and client (Web Browser).
4	New Trends
	<ul style="list-style-type: none"> • New E-commerce Technology Trends, Broadband technologies, Affiliate Marketing, Content marketing - challenges, • Key performance indicators (KPIs),Complex Server and Network Infrastructure, transitioning to Virtualization & Cloud Computing, use of fully or partially outsourced IT support • Supercharged Kiosks, Role of Instant Messaging (IM), Digital literacy and multimedia design

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Group D: E-Commerce

3. Management Information System

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Management Information System (MIS)	15
2	Business & Designing Information System	15
3	Information and System Concept	15
4	Decision Support System & Development of MIS	15
	Total	60

SN	Modules/ Units
1	Introduction to Management Information System (MIS)
	<ul style="list-style-type: none"> • MIS: Concept, Characteristics, Components, Strategic uses, Challenges of Global information system • Information System Resources: Selection of Business Software and Hardware, Business Network and Data Warehouses • Business Intelligence, Knowledge Management, System Planning and Development
2	Business & Designing Information System
	<ul style="list-style-type: none"> • Classification of MIS: Transaction Process System (TPS), Process Control System (PCS), Enterprise Collaboration System (ECS), Business information system, • System Design: Conceptual Design, Objectives, Methods • Structuring Data of MIS: Pyramid structure, Querying, Aggregating and Visualizing Data
3	Information and System Concept
	<ul style="list-style-type: none"> • Information: Concept, Types, Dimensions of Information, Information Quality • System: Kinds, Elements of system, Human as information processing system • Need of IT Industry, Scope of Infrastructure Management, Attributes of Computing System
4	Decision Support System & Development of MIS
	<ul style="list-style-type: none"> • Decision Making: Concept, Types, Simon's Model, Decision Making and MIS • Supporting Management Decision: Key Performance Indicators (KPI), Planning and Implementation. • Development of MIS: Steps in developing a right MIS, System Development Approaches, System analysis and design- Determinants and requirement

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Group D: E-Commerce

4. Digital Marketing

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Digital Marketing & SEO	15
2	Google analytics and SMO	15
3	SEM and Social Media	15
4	Email and Mobile Marketing	15
	Total	60

SN	Modules/ Units
1	Introduction to Digital Marketing & SEO
	<ul style="list-style-type: none"> • Digital Marketing - Introduction, Features, Strategies, Types, Aligning Internet with Business Objectives, • User Behaviour & Navigation, Branding & User Experience, Customer Insights • Search Engine Optimization(SEO) – Search Engines Basics, Functioning of Search Engines, On&off-page Optimization,
2	Google analytics and SMO
	<ul style="list-style-type: none"> • Google Analytics–Concepts, steps, Accounts-profiles and users navigation, Basic metrics, • The main sections of Google Analytics reports-Traffic Sources, Direct referring and search traffic; • Social Media Optimization (SMO) - Concepts, Pros & Cons, bookmarking & aggregating, content, content sharing, knowledge sharing; connecting to social networking
3	SEM and Social Media
	<ul style="list-style-type: none"> • Search Engine Marketing (SEM) - Concept, Understanding Google search - Organic & Paid, Overview of Google Adwords, Google Adsense, Microsoft AdCenter and Yahoo Search Marketing, • Campaign Management, Pay Per Click (PPC) Management, Conversion Tracking, Targeting & Analytics, Keyword Selection, • Conversion Metrics- CPA, CTR, Campaigns - Google PPC Campaigns, LinkedIn Campaigns, Facebook Campaign, YouTube Advertising
4	Email and Mobile Marketing
	<ul style="list-style-type: none"> • E-mail Marketing - User Behaviour, Segmentation, Key Metrics, Best Practice Case Studies, E-marketing strategies, • Tracking landing pages, Choosing your metrics, A/B and Multivariate testing, Analyzing test results, Setting your budgets; • Mobile Marketing - Concept, SMS Strategy, Mobile Advertising, Mobile Optimized Websites, Mobile Apps, Proximity Marketing,

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Group D: E-Commerce

5. International Business, Law and Taxation

Modules at a Glance

SN	Modules	No. of Lectures
1	Use of Internet in the International Business	15
2	International Outsourcing and Ethics	15
3	International Law and Taxation	15
4	Government Intervention in International Business	15
Total		60

SN	Modules/ Units
1	Use of Internet in the International Business
	<ul style="list-style-type: none"> • International Business: Concept, Features, External and Internal Factors of International business • Internet and International business: Significance, Use of Internet, Impact of E-commerce and Barriers • International E-commerce business: Concept of E-business, Features, Evolution,
2	International Outsourcing and Ethics
	<ul style="list-style-type: none"> • Global outsourcing: Concept, Forms, Drivers, Development in IT-BPO Sector • International Outsourcing in India: Benefits, Growth Drivers of India, Limitations • Ethics in International e-Business, Constraint in e-Business in India, International e-Commerce Benchmarking,
3	International Law and Taxation
	<ul style="list-style-type: none"> • International Legal environment in E-commerce, European Community Law, Intellectual Property Law, Pillaging Patent • United States Taxation of International e-Commerce, Law and Policy of Organisation for Economic Co-operation and Development (OECD) • International Taxation and e-Commerce: Direct and Indirect taxation, Relevance of E-commerce, Effect of E-commerce on consumption taxes, Emerging Tax Policy,
4	Government Intervention in International Business
	<ul style="list-style-type: none"> • Instruments of Government Intervention: Tariff and Non- Tariff Barriers, Investment Barriers, • Policies regarding e-commerce: FDI Policy, Foreign Trade Policy, Export-Import Policy- Methods of E-payment, e-Documentations • Rationale for Government Intervention: Defensive and offensive rationale, Economic Freedom and Government Support

Scheme of Examination:

The performance of the learners will be evaluated in two components. One component will be the Internal Assessment component carrying 40% marks and the second component will be the Semester End Examination component carrying 60% marks.

Internal Assessment:

The Internal Assessment will consist of one class test of 40 marks for each course excluding projects. The question paper pattern will be shown as below:

Question Paper Pattern (Internal Assessment)

Maximum Marks: 40 marks

Questions to be set: 03

Duration: 1½ hours

Question No	Particular	Marks
Q-1	Objective Questions Students to answer 10 sub questions out of 15 sub questions. <i>(*Multiple choice/ True or False/ Match the columns/ Fill in the blanks)</i> OR Objective Questions A) Sub Questions to be asked 08 and to be answered any 05 B) Sub Questions to be asked 08 and to be answered any 05 <i>(*Multiple choice/ True or False/ Match the columns/ Fill in the blanks)</i>	10 Marks
Q-2	Concept based short questions Students to answer 5 sub questions out of 8 sub questions.	10 Marks
Q-3	Practical problems or short questions Students to answer 02 sub questions out of 03 sub questions	20 Marks

Question Paper Pattern (Practical Courses)

Maximum Marks: 60

Questions to be set: 04

Duration: 2 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Practical Question	15 Marks
	OR	
Q-1	Practical Question	15 Marks
Q-2	Practical Question	15 Marks
	OR	
Q-2	Practical Question	15 Marks
Q-3	Practical Question	15 Marks
	OR	
Q-3	Practical Question	15 Marks
Q-4	Objective Question (Multiple Choice/ True or False/ Fill in the Blanks/ Match the Columns/ Short Questions.)	15 Marks
	OR	
Q-4	Short Notes (Any three out of five)	15 Marks

Note:

Full length question of 15 marks may be divided into two sub questions of 08 and 07 marks.

Question Paper Pattern (Theoretical Courses)

Maximum Marks: 60

Questions to be set: 04

Duration: 2 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Full length Question	15 Marks
Q-1	OR Full length Question	15 Marks
Q-2	Full length Question	15 Marks
Q-2	OR Full length Question	15 Marks
Q-3	Full length Question	15 Marks
Q-3	OR Full length Question	15 Marks
Q-4	Objective Question (Multiple Choice/ True or False/ Fill in the Blanks/ Match the Columns/ Short Questions.)	15 Marks
Q-4	OR Short Notes (Any three out of five)	15 Marks

Note:

Full length question of 15 marks may be divided into two sub questions of 08 and 07 marks.

University of Mumbai



**Master of Commerce (M.Com)
Programme
Guidelines for Project Work
at
Second Year
Semester III and IV**

**Under Choice Based Credit, Grading and
Semester System**

(To be implemented from Academic Year 2017-2018)

Faculty of Commerce

Introduction

Inclusion of project work in the course curriculum of the M.Com. programme is one of the ambitious aspect in the programme structure. The main objective of inclusion of project work is to inculcate the element of research work challenging the potential of learner as regards to his/ her eager to enquire and ability to interpret particular aspect of the study in his/ her own words. It is expected that the guiding teacher should undertake the counselling sessions and make the awareness among the learners about the methodology of formulation, preparation and evaluation pattern of the project work.

- There are two modes of preparation of project work
 1. Project work based on research methodology in the study area
 2. Project work based on internship in the study area

Guidelines for preparation of Project Work

Work Load

Work load for Project Work is 01 (one) hour per batch of 15-20 learners per week for the teacher. The learner (of that batch) shall do field work and library work in the remaining 03 (three) hours per week.

1. General guidelines for preparation of project work based on research methodology

- The project topic may be undertaken in any area of Elective Courses.
- Each of the learner has to undertake a Project individually under the supervision of a teacher-guide.
- The learner shall decide the topic and title which should be specific, clear and with definite scope in consultation with the teacher-guide concerned.
- University/college shall allot a guiding teacher for guidance to the students based on her / his specialization.
- The project report shall be prepared as per the broad guidelines given below:
 - Font type: Times New Roman
 - Font size: 12-For content, 14-for Title
 - Line Space : 1.5-for content and 1-for in table work
 - Paper Size: A4
 - Margin : in Left-1.5, Up-Down-Right-1
 - The Project Report shall be bounded.
 - The project report should be 80 to 100 pages

Format

1st page (Main Page)

Title of the problem of the Project

A Project Submitted to
University of Mumbai for partial completion of the degree of
Master in Commerce
Under the Faculty of Commerce

By

Name of the Learner

Under the Guidance of

Name of the Guiding Teacher

Name and address of the College

Month and Year

2nd Page

This page to be repeated on 2nd page (i.e. inside after main page)

On separate page

Index

Chapter No. 1 (sub point 1.1, 1.1.1, And so on)	Title of the Chapter	Page No.
Chapter No. 2	Title of the Chapter	
Chapter No. 3	Title of the Chapter	
Chapter No. 4	Title of the Chapter	
Chapter No. 5	Title of the Chapter	

List of tables, if any, with page numbers.

List of Graphs, if any, with page numbers.

List of Appendix, if any, with page numbers.

Abbreviations used:

Structure to be followed to maintain the uniformity in formulation and presentation of Project Work

(Model Structure of the Project Work)

- **Chapter No. 1: Introduction**

In this chapter Selection and relevance of the problem, historical background of the problem, brief profile of the study area, definition/s of related aspects, characteristics, different concepts pertaining to the problem etc can be incorporated by the learner.

- **Chapter No. 2: Research Methodology**

This chapter will include Objectives, Hypothesis, Scope of the study, limitations of the study, significance of the study, Selection of the problem, Sample size, Data collection, Tabulation of data, Techniques and tools to be used, etc can be incorporated by the learner.

- **Chapter No. 3: Literature Review**

This chapter will provide information about studies done on the respective issue. This would specify how the study undertaken is relevant and contribute for value addition in information/ knowledge/ application of study area which ultimately helps the learner to undertake further study on same issue.

- **Chapter No. 4: Data Analysis, Interpretation and Presentation**

This chapter is the core part of the study. The analysis pertaining to collected data will be done by the learner. The application of selected tools or techniques will be used to arrive at findings. In this, table of information's, presentation of graphs etc. can be provided with interpretation by the learner.

- **Chapter No. 5: Conclusions and Suggestions**

In this chapter of project work, findings of work will be covered and suggestion will be enlisted to validate the objectives and hypotheses.

Note: If required more chapters of data analysis can be added.

- **Bibliography**
- **Appendix**

On separate page

Name and address of the college

Certificate

This is to certify that Ms/Mr has worked and duly completed her/his Project Work for the degree of Master in Commerce under the Faculty of Commerce in the subject of _____ and her/his project is entitled, “ _____
_____ *Title of the Project* _____ ” under my supervision.

I further certify that the entire work has been done by the learner under my guidance and that no part of it has been submitted previously for any Degree or Diploma of any University.

It is her/ his own work and facts reported by her/his personal findings and investigations.



Name and Signature of
Guiding Teacher

Date of submission:

On separate page

Declaration by learner

I the undersigned Miss / Mr. _____ *Name of the learner* _____ here by, declare that the work embodied in this project work titled “ _____ *Title of the Project* _____ ”, forms my own contribution to the research work carried out under the guidance of _____ *Name of the guiding teacher* _____ is a result of my own research work and has not been previously submitted to any other University for any other Degree/ Diploma to this or any other University.

Wherever reference has been made to previous works of others, it has been clearly indicated as such and included in the bibliography.

I, here by further declare that all information of this document has been obtained and presented in accordance with academic rules and ethical conduct.

Name and Signature of the learner

Certified by

Name and signature of the Guiding Teacher

On separate page

Acknowledgment

(Model structure of the acknowledgement)

To list who all have helped me is difficult because they are so numerous and the depth is so enormous.

I would like to acknowledge the following as being idealistic channels and fresh dimensions in the completion of this project.

I take this opportunity to thank the **University of Mumbai** for giving me chance to do this project.

I would like to thank my **Principal**, _____ for providing the necessary facilities required for completion of this project.

I take this opportunity to thank our **Coordinator** _____, for her moral support and guidance.

I would also like to express my sincere gratitude towards my project guide _____ whose guidance and care made the project successful.

I would like to thank my **College Library**, for having provided various reference books and magazines related to my project.

Lastly, I would like to thank each and every person who directly or indirectly helped me in the completion of the project especially **my Parents and Peers** who supported me throughout my project.

2. Guidelines for Internship based project work

- Minimum 20 days/ 100 hours of Internship with an Organisation/ NGO/ Charitable Organisation/ Private firm.
- The theme of the internship should be based on any study area of the elective courses
- Project Report should be of minimum 50 pages
- Experience Certificate is Mandatory
- A project report has to be brief in content and must include the following aspects:
 - **Executive Summary:**
A bird's eye view of your entire presentation has to be precisely offered under this category.
 - **Introduction on the Company:**
A Concise representation of company/ organization defining its scope, products/ services and its SWOT analysis.
 - **Statement and Objectives:**
The mission and vision of the organization need to be stated enshrining its broad strategies.
 - **Your Role in the Organisation during the internship:**
The key aspects handled, the department under which you were deployed and brief summary report duly acknowledged by the reporting head.
 - **Challenges:**
The challenges confronted while churning out theoretical knowledge into practical world.
 - **Conclusion:**
A brief overview of your experience and suggestions to bridge the gap between theory and practice.
- The project report based on internship shall be prepared as per the broad guidelines given below:
 - Font type: Times New Roman
 - Font size: 12-For content, 14-for Title
 - Line Space : 1.5-for content and 1-for in table work
 - Paper Size: A4
 - Margin : in Left-1.5, Up-Down-Right-1
 - The Project Report shall be bounded.
 - The project report should be 80 to 100 pages

Evaluation pattern of the project work

The Project Report shall be evaluated in two stages viz.	
• Evaluation of Project Report (Bound Copy)	60 Marks
▪ Introduction and other areas covered	20 Marks
▪ Research Methodology, Presentation, Analysis and interpretation of data	30 Marks
▪ Conclusion & Recommendations	10 Marks
• Conduct of Viva-voce	40 Marks
▪ In the course of Viva-voce, the questions may be asked such as importance / relevance of the study, objective of the study, methodology of the study/ mode of Enquiry (question responses)	10 Marks
▪ Ability to explain the analysis, findings, concluding observations, recommendation, limitations of the Study	20 Marks
▪ Overall Impression (including Communication Skill)	10 Marks

Note:

- *The guiding teacher along with the external evaluator appointed by the University/ College for the evaluation of project shall conduct the viva-voce examination as per the evaluation pattern*

Passing Standard

- Minimum of Grade E in the project component
- In case of failing in the project work, the same project can be revised for ATKT examination.
- Absence of student for viva voce: If any student fails to appear for the viva voce on the date and time fixed by the department such student shall appear for the viva voce on the date and time fixed by the Department, such student shall appear for the viva voce only along with students of the next batch.

Academic Council 11/05/2017

Item No:

UNIVERSITY OF MUMBAI



Syllabus for S.Y.B.Sc.

Programme: B.Sc.

Course: Information Technology

with effect from the academic year

2017 – 2018

Semester – 3			
Course Code	Course Type	Course Title	Credits
USIT301	Skill Enhancement Course	Python Programming	2
USIT302	Core Subject	Data Structures	2
USIT303	Core Subject	Computer Networks	2
USIT304	Core Subject	Database Management Systems	2
USIT305	Core Subject	Applied Mathematics	2
USIT3P1	Skill Enhancement Course Practical	Python Programming Practical	2
USIT3P2	Core Subject Practical	Data Structures Practical	2
USIT3P3	Core Subject Practical	Computer Networks Practical	2
USIT3P4	Core Subject Practical	Database Management Systems Practical	2
USIT3P5	Core Subject Practical	Mobile Programming Practical	2
Total Credits			20

Semester – 4			
Course Code	Course Type	Course Title	Credits
USIT401	Skill Enhancement Course	Core Java	2
USIT402	Core Subject	Introduction to Embedded Systems	2
USIT403	Core Subject	Computer Oriented Statistical Techniques	2
USIT404	Core Subject	Software Engineering	2
USIT405	Core Subject	Computer Graphics and Animation	2
USIT4P1	Skill Enhancement Course Practical	Core Java Practical	2
USIT4P2	Core Subject Practical	Introduction to Embedded Systems Practical	2
USIT4P3	Core Subject Practical	Computer Oriented Statistical Techniques Practical	2
USIT4P4	Core Subject Practical	Software Engineering Practical	2
USIT4P5	Core Subject Practical	Computer Graphics and Animation Practical	2
Total Credits			20

SEMESTER III

B. Sc. (Information Technology)		Semester – III	
Course Name: Python Programming		Course Code: USIT301	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Introduction: The Python Programming Language, History, features, Installing Python, Running Python program, Debugging : Syntax Errors, Runtime Errors, Semantic Errors, Experimental Debugging, Formal and Natural Languages, The Difference Between Brackets, Braces, and Parentheses,</p> <p>Variables and Expressions Values and Types, Variables, Variable Names and Keywords, Type conversion, Operators and Operands, Expressions, Interactive Mode and Script Mode, Order of Operations.</p> <p>Conditional Statements: if, if-else, nested if –else</p> <p>Looping: for, while, nested loops</p> <p>Control statements: Terminating loops, skipping specific conditions</p>	12
II	<p>Functions: Function Calls, Type Conversion Functions, Math Functions, Composition, Adding New Functions, Definitions and Uses, Flow of Execution, Parameters and Arguments, Variables and Parameters Are Local, Stack Diagrams, Fruitful Functions and Void Functions, Why Functions? Importing with from, Return Values, Incremental Development, Composition, Boolean Functions, More Recursion, Leap of Faith, Checking Types</p> <p>Strings: A String Is a Sequence, Traversal with a for Loop, String Slices, Strings Are Immutable, Searching, Looping and Counting, String Methods, The in Operator, String Comparison, String Operations.</p>	12
III	<p>Lists: Values and Accessing Elements, Lists are mutable, traversing a List, Deleting elements from List, Built-in List Operators, Concatenation, Repetition, In Operator, Built-in List functions and methods</p> <p>Tuples and Dictionaries: Tuples, Accessing values in Tuples, Tuple Assignment, Tuples as return values, Variable-length argument tuples, Basic tuples operations, Concatenation, Repetition, in Operator, Iteration, Built-in Tuple Functions</p> <p>Creating a Dictionary, Accessing Values in a dictionary, Updating Dictionary, Deleting Elements from Dictionary, Properties of Dictionary keys, Operations in Dictionary, Built-In Dictionary Functions, Built-in Dictionary Methods</p> <p>Files: Text Files, The File Object Attributes, Directories</p> <p>Exceptions: Built-in Exceptions, Handling Exceptions, Exception</p>	12

	with Arguments, User-defined Exceptions	
IV	<p>Regular Expressions – Concept of regular expression, various types of regular expressions, using match function.</p> <p>Classes and Objects: Overview of OOP (Object Oriented Programming), Class Definition, Creating Objects, Instances as Arguments, Instances as return values, Built-in Class Attributes, Inheritance, Method Overriding, Data Encapsulation, Data Hiding</p> <p>Multithreaded Programming: Thread Module, creating a thread, synchronizing threads, multithreaded priority queue</p> <p>Modules: Importing module, Creating and exploring modules, Math module, Random module, Time module</p>	12
V	<p>Creating the GUI Form and Adding Widgets:</p> <p>Widgets: Button, Canvas, Checkbutton, Entry, Frame, Label, Listbox, Menubutton, Menu, Message, Radiobutton, Scale, Scrollbar, text, Toplevel, Spinbox, PanedWindow, LabelFrame, tkMessageBox. Handling Standard attributes and Properties of Widgets.</p> <p>Layout Management: Designing GUI applications with proper Layout Management features.</p> <p>Look and Feel Customization: Enhancing Look and Feel of GUI using different appearances of widgets.</p> <p>Storing Data in Our MySQL Database via Our GUI : Connecting to a MySQL database from Python, Configuring the MySQL connection, Designing the Python GUI database, Using the INSERT command, Using the UPDATE command, Using the DELETE command, Storing and retrieving data from MySQL database.</p>	12

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Think Python	Allen Downey	O'Reilly	1 st	2012
2.	An Introduction to Computer Science using Python 3	Jason Montojo, Jennifer Campbell, Paul Gries	SPD	1 st	2014
3.	Python GUI Programming Cookbook	Burkhard A. Meier	Packt		2015
4.	Introduction to Problem Solving with Python	E. Balagurusamy	TMH	1 st	2016
5.	Murach's Python programming	Joel Murach, Michael Urban	SPD	1 st	2017
6.	Object-oriented Programming in Python	Michael H. Goldwasser, David Letscher	Pearson Prentice Hall	1 st	2008
7.	Exploring Python	Budd	TMH	1 st	2016

B. Sc. (Information Technology)	Semester – III
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Course Name: Data Structures		Course Code: USIT302	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Introduction: Data and Information, Data Structure, Classification of Data Structures, Primitive Data Types, Abstract Data Types, Data structure vs. File Organization, Operations on Data Structure, Algorithm, Importance of Algorithm Analysis, Complexity of an Algorithm, Asymptotic Analysis and Notations, Big O Notation, Big Omega Notation, Big Theta Notation, Rate of Growth and Big O Notation.</p> <p>Array: Introduction, One Dimensional Array, Memory Representation of One Dimensional Array, Traversing, Insertion, Deletion, Searching, Sorting, Merging of Arrays, Multidimensional Arrays, Memory Representation of Two Dimensional Arrays, General Multi-Dimensional Arrays, Sparse Arrays, SparseMatrix, Memory Representation of Special kind of Matrices, Advantages and Limitations of Arrays.</p>	12
II	<p>Linked List: Linked List, One-way Linked List, Traversal of Linked List, Searching, Memory Allocation and De-allocation, Insertion in Linked List, Deletion from Linked List, Copying a List into Other List, Merging Two Linked Lists, Splitting a List into Two Lists, Reversing One way linked List, Circular Linked List, Applications of Circular Linked List, Two way Linked List, Traversing a Two way Linked List, Searching in a Two way linked List, Insertion of an element in Two way Linked List, Deleting a node from Two way Linked List, Header Linked List, Applications of the Linked list, Representation of Polynomials, Storage of Sparse Arrays, Implementing other Data Structures.</p>	12
III	<p>Stack: Introduction, Operations on the Stack Memory Representation of Stack, Array Representation of Stack, Applications of Stack, Evaluation of Arithmetic Expression, Matching Parenthesis, infix and postfix operations, Recursion.</p> <p>Queue: Introduction, Queue, Operations on the Queue, Memory Representation of Queue, Array representation of queue, Linked List Representation of Queue, Circular Queue, Some special kinds of queues, Deque, Priority Queue, Application of Priority Queue, Applications of Queues.</p>	12
IV	<p>Sorting and Searching Techniques Bubble, Selection, Insertion, Merge Sort. Searching: Sequential,</p>	12

	<p>Binary, Indexed Sequential Searches, Binary Search.</p> <p>Tree:Tree, Binary Tree, Properties of Binary Tree, Memory Representation of Binary Tree, Operations Performed on Binary Tree, Reconstruction of Binary Tree from its Traversals, Huffman Algorithm, Binary Search Tree, Operations on Binary Search Tree, Heap, Memory Representation of Heap, Operation on Heap, Heap Sort.</p> <p>Advanced Tree Structures:Red Black Tree, Operations Performed on Red Black Tree, AVL Tree, Operations performed on AVL Tree, 2-3 Tree, B-Tree.</p>	
V	<p>Hashing Techniques Hash function, Address calculation techniques, Common hashing functions Collision resolution, Linear probing, Quadratic, Double hashing, Buckethashing, Deletion and rehashing</p> <p>Graph: Introduction, Graph, Graph Terminology, Memory Representation of Graph, Adjacency Matrix Representation of Graph, Adjacency List or Linked Representation of Graph, Operations Performed on Graph, Graph Traversal, Applications of the Graph, Reachability, Shortest Path Problems, Spanning Trees.</p>	12

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	A Simplified Approach to Data Structures	Lalit Goyal, Vishal Goyal, Pawan Kumar	SPD	1 st	2014
2.	An Introduction to Data Structure with Applications	Jean – Paul Tremblay and Paul Sorenson	Tata MacGraw Hill	2 nd	2007
3.	Data Structure and Algorithm	Maria Rukadikar	SPD	1 st	2017
4.	Schaum’s Outlines Data structure	Seymour Lipschutz	Tata McGraw Hill	2 nd	2005
5.	Data structure – A Pseudocode Approach with C	AM Tanenbaum, Y Langsam and MJ Augustein	Prentice Hall India	2 nd	2006
6.	Data structure and Algorithm Analysis in C	Weiss, Mark Allen	Addison Wesley	1 st	2006

B. Sc. (Information Technology)		Semester – III	
Course Name: Computer Networks		Course Code: USIT303	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Introduction: Data communications, networks, network types, Internet history, standards and administration.</p> <p>Network Models: Protocol layering, TCP/IP protocol suite, The OSI model.</p> <p>Introduction to Physical layer: Data and signals, periodic analog signals, digital signals, transmission impairment, data rate limits, performance.</p> <p>Digital and Analog transmission: Digital-to-digital conversion, analog-to-digital conversion, transmission modes, digital-to-analog conversion, analog-to-analog conversion.</p>	12
II	<p>Bandwidth Utilization: Multiplexing and Spectrum Spreading: Multiplexing, Spread Spectrum</p> <p>Transmission media: Guided Media, Unguided Media</p> <p>Switching: Introduction, circuit switched networks, packet switching, structure of a switch.</p> <p>Introduction to the Data Link Layer: Link layer addressing, Data Link Layer Design Issues, Error detection and correction, block coding, cyclic codes, checksum, forward error correction, error correcting codes, error detecting codes.</p>	12
III	<p>Data Link Control: DLC services, data link layer protocols, HDLC, Point-to-point protocol.</p> <p>Media Access Control: Random access, controlled access, channelization, Wired LANs – Ethernet Protocol, standard ethernet, fast ethernet, gigabit ethernet, 10 gigabit ethernet,</p> <p>Wireless LANs: Introduction, IEEE 802.11 project, Bluetooth, WiMAX, Cellular telephony, Satellite networks.</p> <p>Connecting devices and Virtual LANs.</p>	12
IV	<p>Introduction to the Network Layer: Network layer services, packet switching, network layer performance, IPv4 addressing, forwarding of IP packets, Internet Protocol, ICMPv4, Mobile IP</p> <p>Unicast Routing: Introduction, routing algorithms, unicast routing protocols.</p> <p>Next generation IP: IPv6 addressing, IPv6 protocol, ICMPv6 protocol, transition from IPv4 to IPv6.</p>	12
V	<p>Introduction to the Transport Layer: Introduction, Transport layer protocols (Simple protocol, Stop-and-wait protocol, Go-Back-n protocol, Selective repeat protocol, Bidirectional protocols), Transport</p>	12

	layer services, User datagram protocol, Transmission control protocol, Standard Client0Server Protocols: World wide-web and HTTP, FTP, Electronic mail, Telnet, Secured Shell, Domain name system.	
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Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Data Communication and Networking	Behrouz A. Forouzan	Tata McGraw Hill	Fifth Edition	2013
2.	TCP/IP Protocol Suite	Behrouz A. Forouzan	Tata McGraw Hill	Fourth Edition	2010
3.	Computer Networks	Andrew Tanenbaum	Pearson	Fifth	2013

B. Sc. (Information Technology)	Semester – III
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Course Name: Database Management Systems		Course Code: USIT304	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Introduction to Databases and Transactions What is database system, purpose of database system, view of data, relationaldatabases, database architecture, transaction management</p> <p>Data Models The importance of data models, Basic building blocks, Business rules, The evolutionof data models, Degrees of data abstraction.</p> <p>Database Design,ER Diagram and Unified Modeling Language Database design and ER Model:overview, ERModel, Constraints, ERDiagrams, ERDIssues, weak entity sets, Codd’s rules, Relational Schemas, Introduction to UML</p>	12
II	<p>Relational database model: Logical view of data, keys, integrity rules, Relational Database design: features of good relational database design, atomic domain and Normalization (1NF, 2NF, 3NF, BCNF).</p> <p>Relational Algebra and Calculus Relational algebra: introduction, Selection and projection, set operations, renaming,Joins, Division, syntax, semantics. Operators, grouping and ungrouping,relationalcomparison.</p> <p>Calculus: Tuple relational calculus, Domain relational Calculus, calculus vsalgebra,computational capabilities</p>	12
III	<p>Constraints, Views and SQL Constraints, types of constrains, Integrity constraints, Views: Introduction to views, data independence, security, updates on views,comparison between tables and views SQL: data definition, aggregate function, Null Values, nested sub queries, Joined relations. Triggers.</p>	12
IV	<p>Transaction management and Concurrency Control Transaction management: ACID properties, serializability and concurrency control, Lock based concurrency control (2PL, Deadlocks),Time stamping methods, optimistic methods, database recovery management.</p>	12
V	<p>PL-SQL: Beginning with PL / SQL,Identifiers and Keywords, Operators, Expressions, Sequences,Control Structures, Cursors and Transaction,Collections and composite data types, Procedures and Functions, Exceptions Handling,Packages,With Clause and Hierarchical Retrieval,Triggers.</p>	12

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Database System and Concepts	A Silberschatz, H Korth, S Sudarshan	McGraw- Hill	Fifth Edition	
2.	Database Systems	RobCoronel	Cengage Learning	Twelfth Edition	
3.	Programming with PL/SQL for Beginners	H.Dand, R.Patil and T. Sambare	X –Team	First	2011
4.	Introduction to Database System	C.J.Date	Pearson	First	2003

B. Sc. (Information Technology)		Semester – III	
Course Name: Applied Mathematics		Course Code: USIT305	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Matrices: Inverse of a matrix, Properties of matrices, Elementary Transformation, Rank of Matrix, Echelon or Normal Matrix, Inverse of matrix, Linear equations, Linear dependence and linear independence of vectors, Linear transformation, Characteristics roots and characteristics vectors, Properties of characteristic vectors, Caley-Hamilton Theorem, Similarity of matrices, Reduction of matrix to a diagonal matrix which has elements as characteristics values.</p> <p>Complex Numbers: Complex number, Equality of complex numbers, Graphical representation of complex number(Argand's Diagram), Polar form of complex numbers, Polar form of $x+iy$ for different signs of x,y, Exponential form of complex numbers, Mathematical operation with complex numbers and their representation on Argand's Diagram, Circular functions of complex angles, Definition of hyperbolic function, Relations between circular and hyperbolic functions, Inverse hyperbolic functions, Differentiation and Integration, Graphs of the hyperbolic functions, Logarithms of complex quality, $j(=i)$ as an operator(Electrical circuits)</p>	12
II	<p>Equation of the first order and of the first degree: Separation of variables, Equations homogeneous in x and y, Non-homogeneous linear equations, Exact differential Equation, Integrating Factor, Linear Equation and equation reducible to this form, Method of substitution.</p> <p>Differential equation of the first order of a degree higher than the first: Introduction, Solvable for p (or the method of factors), Solve for y, Solve for x, Clairaut's form of the equation, Methods of Substitution, Method of Substitution.</p> <p>Linear Differential Equations with Constant Coefficients:Introduction, The Differential Operator, Linear Differential Equation $f(D) y = 0$, Different cases depending on the nature of the root of the equation $f(D) = 0$, Linear differential equation $f(D) y = X$, The complimentary Function, The inverse operator $1/f(D)$ and the symbolic expiration for the particular integral $1/f(D) X$; the general methods, Particular integral : Short methods, Particular integral : Other methods, Differential equations reducible to the linear differential equations with constant coefficients.</p>	12
III	<p>The Laplace Transform: Introduction, Definition of the Laplace Transform, Table of Elementary Laplace Transforms, Theorems on</p>	12

	Important Properties of Laplace Transformation, First Shifting Theorem, Second Shifting Theorem, The Convolution Theorem, Laplace Transform of an Integral, Laplace Transform of Derivatives, Inverse Laplace Transform: Shifting Theorem, Partial fraction Methods, Use of Convolution Theorem, Solution of Ordinary Linear Differential Equations with Constant Coefficients, Solution of Simultaneous Ordinary Differential Equations, Laplace Transformation of Special Function, Periodic Functions, Heaviside Unit Step Function, Dirac-delta Function(Unit Impulse Function),	
IV	Multiple Integrals: Double Integral, Change of the order of the integration, Double integral in polar co-ordinates, Triple integrals. Applications of integration: Areas, Volumes of solids.	12
V	Beta and Gamma Functions – Definitions, Properties and Problems. Duplication formula. Differentiation Under the Integral Sign Error Functions	12

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	A text book of Applied Mathematics Vol I	P. N. Wartikar and J. N. Wartikar	Pune VidyathiGraha		
2.	Applied Mathematics II	P. N. Wartikar and J. N. Wartikar	Pune VidyathiGraha		
3.	Higher Engineering Mathematics	Dr. B. S. Grewal	Khanna Publications		

B. Sc. (Information Technology)		Semester – III	
Course Name: Python Programming Practical		Course Code: USIT3P1	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	--

List of Practical	
1.	Write the program for the following:
a.	Create a program that asks the user to enter their name and their age. Print out a message addressed to them that tells them the year that they will turn 100 years old.
b.	Enter the number from the user and depending on whether the number is even or odd, print out an appropriate message to the user.
c.	Write a program to generate the Fibonacci series.
d.	Write a function that reverses the user defined value.
e.	Write a function to check the input value is Armstrong and also write the function for Palindrome.
f.	Write a recursive function to print the factorial for a given number.
2.	Write the program for the following:
a.	Write a function that takes a character (i.e. a string of length 1) and returns True if it is a vowel, False otherwise.
b.	Define a function that computes the <i>length</i> of a given list or string.
c.	Define a <i>procedure</i> histogram() that takes a list of integers and prints a histogram to the screen. For example, histogram([4, 9, 7]) should print the following: <pre>**** ***** *****</pre>
3.	Write the program for the following:
a.	A <i>pangram</i> is a sentence that contains all the letters of the English alphabet at least once, for example: <i>The quick brown fox jumps over the lazy dog</i> . Your task here is to write a function to check a sentence to see if it is a pangram or not.
b.	Take a list, say for example this one: <pre>a=[1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89]</pre> and write a program that prints out all the elements of the list that are less than 5.

4.	Write the program for the following:
a.	Write a program that takes two lists and returns True if they have at least one common member.
b.	Write a Python program to print a specified list after removing the 0th, 2nd, 4th and 5th elements.
c.	Write a Python program to clone or copy a list
5.	Write the program for the following:
a.	Write a Python script to sort (ascending and descending) a dictionary by value.
b.	Write a Python script to concatenate following dictionaries to create a new one. Sample Dictionary : dic1={ 1:10, 2:20} dic2={ 3:30, 4:40} dic3={ 5:50,6:60} Expected Result : {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}
c.	Write a Python program to sum all the items in a dictionary.
6.	Write the program for the following:
a.	Write a Python program to read an entire text file.
b.	Write a Python program to append text to a file and display the text.
c.	Write a Python program to read last n lines of a file.
7.	Write the program for the following:
a.	Design a class that store the information of student and display the same
b.	Implement the concept of inheritance using python
c.	Create a class called <code>Numbers</code> , which has a single class attribute called <code>MULTIPLIER</code> , and a constructor which takes the parameters <code>x</code> and <code>y</code> (these should all be numbers). i. Write a method called <code>add</code> which returns the sum of the attributes <code>x</code> and <code>y</code> . ii. Write a class method called <code>multiply</code> , which takes a single number parameter <code>a</code> and returns the product of <code>a</code> and <code>MULTIPLIER</code> . iii. Write a static method called <code>subtract</code> , which takes two number parameters, <code>b</code> and <code>c</code> , and returns <code>b - c</code> . iv. Write a method called <code>value</code> which returns a tuple containing the values of <code>x</code> and <code>y</code> . Make this method into a property, and write a setter and a deleter for manipulating the values of <code>x</code> and <code>y</code> .
8.	Write the program for the following:
a.	Open a new file in IDLE (“New Window” in the “File” menu) and save it as <code>geometry.py</code> in the directory where you keep the files you create for this course. Then copy the functions you wrote for calculating volumes and areas in the “Control Flow and Functions” exercise into this file and save it. Now open a new file and save it in the same directory. You should now be able

	<p>to import your own module like this:</p> <pre>import geometry</pre> <p>Try and add <code>print dir(geometry)</code> to the file and run it.</p> <p>Now write a function <code>pointyShapeVolume(x, y, squareBase)</code> that calculates the volume of a square pyramid if <code>squareBase</code> is <code>True</code> and of a right circular cone if <code>squareBase</code> is <code>False</code>. <code>x</code> is the length of an edge on a square if <code>squareBase</code> is <code>True</code> and the radius of a circle when <code>squareBase</code> is <code>False</code>. <code>y</code> is the height of the object. First use <code>squareBase</code> to distinguish the cases. Use the <code>circleArea</code> and <code>squareArea</code> from the <code>geometry</code> module to calculate the base areas.</p>
b.	Write a program to implement exception handling.
9.	Write the program for the following:
a.	Try to configure the widget with various options like: <code>bg="red"</code> , <code>family="times"</code> , <code>size=18</code>
b.	Try to change the widget type and configuration options to experiment with other widget types like <code>Message</code> , <code>Button</code> , <code>Entry</code> , <code>Checkbutton</code> , <code>Radiobutton</code> , <code>Scale</code> etc.
10.	Design the database applications for the following:
a.	Design a simple database application that stores the records and retrieve the same.
b.	Design a database application to search the specified record from the database.
c.	Design a database application to that allows the user to add, delete and modify the records.

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Think Python	Allen Downey	O'Reilly	1 st	2012
2.	An Introduction to Computer Science using Python 3	Jason Montojo, Jennifer Campbell, Paul Gries	SPD	1 st	2014

B. Sc. (Information Technology)		Semester – III	
Course Name: Data Structures Practical		Course Code: USIT3P2	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	--

List of Practical	
1.	Implement the following:
a.	Write a program to store the elements in 1-D array and perform the operations like searching, sorting and reversing the elements. [Menu Driven]
b.	Read the two arrays from the user and merge them and display the elements in sorted order.[Menu Driven]
c.	Write a program to perform the Matrix addition, Multiplication and Transpose Operation. [Menu Driven]
2.	Implement the following for Linked List:
a.	Write a program to create a single linked list and display the node elements in reverse order.
b.	Write a program to search the elements in the linked list and display the same
c.	Write a program to create double linked list and sort the elements in the linked list.
3.	Implement the following for Stack:
a.	Write a program to implement the concept of Stack with Push, Pop, Display and Exit operations.
b.	Write a program to convert an infix expression to postfix and prefix conversion.
c.	Write a program to implement Tower of Hanoi problem.
4.	Implement the following for Queue:
a.	Write a program to implement the concept of Queue with Insert, Delete, Display and Exit operations.
b.	Write a program to implement the concept of Circular Queue
c.	Write a program to implement the concept of Deque.
5.	Implement the following sorting techniques:
a.	Write a program to implement bubble sort.
b.	Write a program to implement selection sort.
c.	Write a program to implement insertion sort.
6.	Implement the following data structure techniques:
a.	Write a program to implement merge sort.
b.	Write a program to search the element using sequential search.

c.	Write a program to search the element using binary search.
7.	Implement the following data structure techniques:
a.	Write a program to create the tree and display the elements.
b.	Write a program to construct the binary tree.
c.	Write a program for inorder, postorder and preorder traversal of tree
8.	Implement the following data structure techniques:
a.	Write a program to insert the element into maximum heap.
b.	Write a program to insert the element into minimum heap.
9.	Implement the following data structure techniques:
a.	Write a program to implement the collision technique.
b.	Write a program to implement the concept of linear probing.
10.	Implement the following data structure techniques:
a.	Write a program to generate the adjacency matrix.
b.	Write a program for shortest path diagram.

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Data Structures and Algorithms Using Python	RanceNecaise	Wiley	First	2016
2.	Data Structures Using C and C++	Langsam,Augenstein, Tanenbaum	Pearson	First	2015

B. Sc. (Information Technology)		Semester – III	
Course Name: Computer Networks		Course Code: USIT3P3	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	--

List of Practical	
1.	IPv4 Addressing and Subnetting a) Given an IP address and network mask, determine other information about the IP address such as: <ul style="list-style-type: none"> • Network address • Network broadcast address • Total number of host bits • Number of hosts b) Given an IP address and network mask, determine other information about the IP address such as: <ul style="list-style-type: none"> • The subnet address of this subnet • The broadcast address of this subnet • The range of host addresses for this subnet • The maximum number of subnets for this subnet mask • The number of hosts for each subnet • The number of subnet bits • The number of this subnet
2.	Use of ping and tracert / traceroute, ipconfig / ifconfig, route and arp utilities.
3.	Configure IP static routing.
4.	Configure IP routing using RIP.
5.	Configuring Simple OSPF.
6.	Configuring DHCP server and client.
7.	Create virtual PC based network using virtualization software and virtual NIC.
8.	Configuring DNS Server and client.
9.	Configuring OSPF with multiple areas.
10.	Use of Wireshark to scan and check the packet information of following protocols <ul style="list-style-type: none"> • HTTP • ICMP • TCP • SMTP • POP3

B. Sc. (Information Technology)		Semester – III	
Course Name: Database Management System		Course Code: USIT3P4	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	--

List of Practical	
1.	SQL Statements – 1
a.	Writing Basic SQL SELECT Statements
b.	Restricting and Sorting Data
c.	Single-Row Functions
2.	SQL Statements – 2
a.	Displaying Data from Multiple Tables
b.	Aggregating Data Using Group Functions
c.	Subqueries
3.	Manipulating Data
a.	Using INSERT statement
b.	Using DELETE statement
c.	Using UPDATE statement
4.	Creating and Managing Tables
a.	Creating and Managing Tables
b.	Including Constraints
5.	Creating and Managing other database objects
a.	Creating Views
b.	Other Database Objects
c.	Controlling User Access
6.	Using SET operators, Date/Time Functions, GROUP BY clause (advanced features) and advanced subqueries
a.	Using SET Operators
b.	Datetime Functions
c.	Enhancements to the GROUP BY Clause
d.	Advanced Subqueries
7.	PL/SQL Basics
a.	Declaring Variables
b.	Writing Executable Statements
c.	Interacting with the Oracle Server

d.	Writing Control Structures
8.	Composite data types, cursors and exceptions.
a.	Working with Composite Data Types
b.	Writing Explicit Cursors
c.	Handling Exceptions
9.	Procedures and Functions
a.	Creating Procedures
b.	Creating Functions
c.	Managing Subprograms
d.	Creating Packages
10.	Creating Database Triggers

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Database System and Concepts	A Silberschatz, H Korth, S Sudarshan	McGraw-Hill	Fifth Edition	
2.	Programming with PL/SQL for Beginners	H.Dand , R.Patil and T. Sambare	X –Team	First	2011
3.	PL/SQL Programming	Ivan Bayross	BPB	First	2010

B. Sc. (Information Technology)		Semester – III	
Course Name: Mobile Programming		Course Code: USIT3P5	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	--

The practical's will be based on HTML5, CSS, CORDOVA and PhoneGAP API. (Android will be introduced later after they learn Java)

List of Practical	
	Setting up CORDOVA, PhoneGAP Project and environment.
1.	<ul style="list-style-type: none"> • Creating and building simple “Hello World” App using Cordova • Adding and Using Buttons • Adding and Using Event Listeners
2.	<ul style="list-style-type: none"> • Creating and Using Functions • Using Events • Handling and Using Back Button
3.	<ul style="list-style-type: none"> • Installing and Using Plugins • Installing and Using Battery Plugin • Installing and Using Camera Plugin
4.	<ul style="list-style-type: none"> • Installing and Using Contacts Plugin • Installing and Using Device Plugin • Installing and Using Accelerometer Plugin
5.	<ul style="list-style-type: none"> • Install and Using Device Orientation plugin • Install and Using Device Orientation plugin • Create and Using Prompt Function
6.	<ul style="list-style-type: none"> • Installing and Using File Plugin • Installing and Using File Transfer Plugin • Using Download and Upload functions
7.	<ul style="list-style-type: none"> • Installing and Using Globalization Plugin • Installing and Using Media Plugin • Installing and Using Media Capture Plugin
8.	<ul style="list-style-type: none"> • Installing and Using Network Information Plugin

	<ul style="list-style-type: none"> • Installing and Using Splash Screen Plugin • Installing and Using Vibration Plugin
9.	<ul style="list-style-type: none"> • Developing Single Page Apps • Developing Multipage Apps • Storing Data Locally in a Cordova App
10.	<ul style="list-style-type: none"> • Use of sqlite plugin with PhoneGap / apache Cordova • Using Sqlite read/write and search • Populating Cordova SQLite storage with the JQuery API

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Apache Cordova 4 Programming	John M. Wargo	Addison-Wesley Professional	1 st	2015
2.	Apache Cordova in Action	Raymond Camden	Manning Publications	1 st	2015
3.	PhoneGap By Example	Andrey Kovalenko	PACKT Publishing	1 st	2015

SEMESTER IV

B. Sc. (Information Technology)		Semester – IV	
Course Name: Core Java		Course Code: USIT401	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Introduction:History, architecture and its components,Java Class File, Java Runtime Environment, The Java Virtual Machine, JVM Components, The Java API, java platform, java development kit, Lambda Expressions, Methods References, Type Annotations, Method Parameter Reflection, setting the path environment variable, Java Compiler And Interpreter, java programs, java applications, main(), public, static, void, string[] args, statements, white space, case sensitivity, identifiers, keywords, comments, braces and code blocks, variables, variable name</p> <p>Data types: primitive data types, Object Reference Types, Strings, Auto boxing, operators and properties of operators, Arithmetic operators, assignment operators, increment and decrement operator, relational operator, logical operator, bitwise operator, conditional operator.</p>	12
II	<p>Control Flow Statements: The If...Else If...Else Statement, The Switch...Case Statement</p> <p>Iterations: The While Loop, The Do ... While Loop, The For Loop, The Foreach Loop, Labeled Statements, The Break And Continue Statements, The Return Statement</p> <p>Classes: Types of Classes, Scope Rules, Access Modifier, Instantiating Objects From A Class, Initializing The Class Object And Its Attributes, Class Methods, Accessing A Method, Method Returning A Value, Method's Arguments, Method Overloading, Variable Arguments [Varargs], Constructors, this Instance, super Instance, Characteristics Of Members Of A Class, constants, this instance, static fields of a class, static methods of a class, garbage collection.</p>	12
III	<p>Inheritance: Derived Class Objects, Inheritance and Access Control, Default Base Class Constructors, this and super keywords. Abstract Classes And Interfaces, Abstract Classes, Abstract Methods, Interfaces, What Is An Interface? How Is An Interface Different From An Abstract Class?, Multiple Inheritance, Default Implementation, Adding New Functionality, Method Implementation, Classes V/s</p>	12

	Interfaces, Defining An Interface, Implementing Interfaces. Packages: Creating Packages, Default Package, Importing Packages, Using A Package.	
IV	Enumerations, Arrays: Two Dimensional Arrays, Multi-Dimensional Arrays, Vectors, Adding Elements To A Vector, Accessing Vector Elements, Searching For Elements In A Vector, Working With The Size of The Vector. Multithreading: the thread control methods, thread life cycle, the main thread, creating a thread, extending the thread class. Exceptions: Catching Java Exceptions, Catching Run-Time Exceptions, Handling Multiple Exceptions, The finally Clause, The throws Clause Byte streams: reading console input, writing console output, reading file, writing file, writing binary data, reading binary data, getting started with character streams, writing file, reading file	12
V	Event Handling: Delegation Event Model, Events, Event classes, Event listener interfaces, Using delegation event model, adapter classes and inner classes. Abstract Window Toolkit: Window Fundamentals, Component, Container, Panel, Window, Frame, Canvas.Components – Labels, Buttons, Check Boxes, Radio Buttons, Choice Menus, Text Fields, Text, Scrolling List, Scrollbars, Panels, Frames Layouts: Flow Layout, Grid Layout, Border Layout, Card Layout.	12

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Core Java 8 for Beginners	Vaishali Shah, Sharnam Shah	SPD	1st	2015
2.	Java: The Complete Reference	Herbert Schildt	McGraw Hill	9th	2014
3.	Murach's beginning Java with Net Beans	Joel Murach , Michael Urban	SPD	1st	2016
4.	Core Java, Volume I: Fundamentals	Hortsman	Pearson	9th	2013
5.	Core Java, Volume II: Advanced Features	Gary Cornell and Hortsman	Pearson	8th	2008
6.	Core Java: An Integrated Approach	R. Nageswara Rao	DreamTech	1st	2008

B. Sc. (Information Technology)		Semester – IV	
Course Name: Introduction to Embedded Systems		Course Code: USIT402	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Introduction: Embedded Systems and general purpose computersystems, history, classifications, applications and purpose of embedded systems</p> <p>Core of embedded systems: microprocessors and microcontrollers, RISC and CISC controllers, Big endian and Little endian processors, Application specific ICs, Programmable logic devices, COTS, sensors and actuators, communication interface, embedded firmware, other system components.</p> <p>Characteristics and quality attributes of embedded systems: Characteristics, operational and non-operational quality attributes.</p>	12
II	<p>Embedded Systems – Application and Domain Specific: Application specific – washing machine, domain specific - automotive.</p> <p>Embedded Hardware: Memory map, i/o map, interrupt map, processor family, external peripherals, memory – RAM , ROM, types of RAM and ROM, memory testing, CRC ,Flash memory.</p> <p>Peripherals: Control and Status Registers, Device Driver, Timer Driver - Watchdog Timers.</p>	12
III	<p>The 8051 Microcontrollers: Microcontrollers and Embedded processors, Overview of 8051 family. 8051 Microcontroller hardware, Input/output pins, Ports, and Circuits, External Memory.</p> <p>8051 Programming in C: Data Types and time delay in 8051 C, I/O Programming, Logic operations, Data conversion Programs.</p>	12
IV	<p>Designing Embedded System with 8051 Microcontroller: Factors to be considered in selecting a controller, why 8051 Microcontroller, Designing with 8051.</p> <p>Programming embedded systems: structure of embedded program, infinite loop, compiling, linking and debugging.</p>	12
V	<p>Real Time Operating System (RTOS): Operating system basics, types of operating systems, Real-Time Characteristics, Selection Process of an RTOS.</p> <p>Design and Development: Embedded system development Environment – IDE, types of file generated on cross</p>	12

	compilation, disassembler/ de-compiler, simulator, emulator and debugging, embedded product development life-cycle, trends in embedded industry.	
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Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Programming Embedded Systems in C and C++	Michael Barr	O'Reilly	First	1999
2.	Introduction to embedded systems	Shibu K V	Tata Mcgraw-Hill	First	2012
3.	The 8051 Microcontroller and Embedded Systems	Muhammad Ali Mazidi	Pearson	Second	2011
4.	Embedded Systems	Rajkamal	Tata Mcgraw-Hill		

B. Sc. (Information Technology)		Semester – IV	
Course Name: Computer Oriented Statistical Techniques		Course Code: USIT403	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>The Mean, Median, Mode, and Other Measures of Central Tendency: Index, or Subscript, Notation, Summation Notation, Averages, or Measures of Central Tendency ,The Arithmetic Mean , The Weighted Arithmetic Mean ,Properties of the Arithmetic Mean ,The Arithmetic Mean Computed from Grouped Data ,The Median ,The Mode, The Empirical Relation Between the Mean, Median, and Mode, The Geometric Mean G, The Harmonic Mean H ,The Relation Between the Arithmetic, Geometric, and Harmonic Means, The Root Mean Square, Quartiles, Deciles, and Percentiles,Software and Measures of Central Tendency.</p> <p>The Standard Deviation and Other Measures of Dispersion: Dispersion, or Variation,The Range, The Mean Deviation, The Semi-Interquartile Range,The 10–90 Percentile Range, The Standard Deviation, The Variance, Short Methods for Computing the Standard Deviation,Properties of the Standard Deviation,Charlie’s Check, Sheppard’s Correction for Variance, Empirical Relations Between Measures of Dispersion, Absolute and Relative Dispersion; Coefficient of Variation; Standard Scores, Software and Measures of Dispersion.</p> <p>Introduction to R: Basic syntax, data types, variables, operators, control statements, R-functions, R –Vectors, R – lists, R Arrays.</p>	12
II	<p>Moments, Skewness, and Kurtosis :Moments , Moments for Grouped Data ,Relations Between Moments , Computation of Moments for Grouped Data, Charlie’s Check and Sheppard’s Corrections, Moments in Dimensionless Form, Skewness, Kurtosis, Population Moments, Skewness, and Kurtosis, Software Computation of Skewness and Kurtosis.</p> <p>Elementary Probability Theory: Definitions of Probability, Conditional Probability; Independent and Dependent Events, Mutually Exclusive Events, Probability Distributions, Mathematical Expectation,Relation Between Population, Sample Mean, and</p>	12

	<p>Variance, Combinatorial Analysis, Combinations, Stirling's Approximation to $n!$, Relation of Probability to Point Set Theory, Euler or Venn Diagrams and Probability.</p> <p>Elementary Sampling Theory : Sampling Theory, Random Samples and Random Numbers, Sampling With and Without Replacement, Sampling Distributions, Sampling Distribution of Means, Sampling Distribution of Proportions, Sampling Distributions of D_i and Sums, Standard Errors, Software Demonstration of Elementary Sampling Theory.</p>	
III	<p>Statistical Estimation Theory: Estimation of Parameters, Unbiased Estimates, Efficient Estimates, Point Estimates and Interval Estimates; Their Reliability, Confidence-Interval Estimates of Population Parameters, Probable Error.</p> <p>Statistical Decision Theory: Statistical Decisions, Statistical Hypotheses, Tests of Hypotheses and Significance, or Decision Rules, Type I and Type II Errors, Level of Significance, Tests Involving Normal Distributions, Two-Tailed and One-Tailed Tests, Special Tests, Operating-Characteristic Curves; the Power of a Test, p-Values for Hypotheses Tests, Control Charts, Tests Involving Sample D_i Differences Involving Binomial Distributions.</p> <p>Statistics in R: mean, median, mode, Normal Distribution, Binomial Distribution, Frequency Distribution in R.</p>	12
IV	<p>Small Sampling Theory: Small Samples, Student's t Distribution, Confidence Intervals, Tests of Hypotheses and Significance, The Chi-Square Distribution, Confidence Intervals for Sigma, Degrees of Freedom, The F Distribution.</p> <p>The Chi-Square Test: Observed and Theoretical Frequencies, Definition of chi-square, Significance Tests, The Chi-Square Test for Goodness of Fit, Contingency Tables, Yates' Correction for Continuity, Simple Formulas for Computing chi-square, Coefficient of Contingency, Correlation of Attributes, Additive Property of chi-square.</p>	12
V	<p>Curve Fitting and the Method of Least Squares: Relationship Between Variables, Curve Fitting, Equations of Approximating Curves, Freehand Method of Curve Fitting, The Straight Line, The Method of Least Squares, The Least-Squares Line, Nonlinear Relationships, The Least-Squares Parabola, Regression, Applications to Time Series, Problems Involving More Than Two Variables.</p> <p>Correlation Theory: Correlation and Regression, Linear Correlation, Measures of Correlation, The Least-Squares Regression Lines, Standard Error of Estimate, Explained and Unexplained Variation, Coefficient of Correlation, Product-Moment Formula for the Linear Correlation Coefficient, Short Computational Formulas, Regression Lines and the Linear Correlation Coefficient, Correlation of Time Series, Correlation of Attributes, Sampling Theory of Correlation,</p>	12

	Sampling Theory of Regression.	
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Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	STATISTICS	Murray R. Spiegel, Larry J. Stephens.	McGRAW – HILL INTERNATIONAL	FOURTH	
2.	A Practical Approach using R	R.B. Patil, H.J. Dand and R. Bhavsar	SPD	1 st	2017
3.	FUNDAMENTAL OF MATHEMATICAL STATISTICS	S.C. GUPTA and V.K. KAPOOR	SULTAN CHAND and SONS	ELEVENTH REVISED	2011
4.	MATHEMATICAL STATISTICS	J.N. KAPUR and H.C. SAXENA	S. CHAND	TWENTIETH REVISED	2005

B. Sc. (Information Technology)		Semester – IV	
Course Name: Software Engineering		Course Code: USIT404	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Introduction: What is software engineering? Software Development Life Cycle, Requirements Analysis, Software Design, Coding, Testing, Maintenance etc.</p> <p>Software Requirements: Functional and Non-functional requirements, User Requirements, System Requirements, Interface Specification, Documentation of the software requirements.</p> <p>Software Processes: Process and Project, Component Software Processes.</p> <p>Software Development Process Models.</p> <ul style="list-style-type: none"> • Waterfall Model. • Prototyping. • Iterative Development. • Rational Unified Process. • The RAD Model • Time boxing Model. <p>Agile software development: Agile methods, Plan-driven and agile development, Extreme programming, Agile project management, Scaling agile methods.</p>	12
II	<p>Socio-technical system:Essential characteristics of socio technical systems, Emergent System Properties, Systems Engineering, Components of system such as organization, people and computers, Dealing Legacy Systems.</p> <p>Critical system: Types of critical system, A simple safety critical system, Dependability of a system, Availability and Reliability, Safety and Security of Software systems.</p> <p>Requirements Engineering Processes: Feasibility study, Requirementselicitation and analysis, Requirements Validations, Requirements Management.</p>	12

	System Models: Models and its types, Context Models, Behavioural Models, Data Models, Object Models, Structured Methods.	
III	<p>Architectural Design: Architectural Design Decisions, System Organisation, Modular Decomposition Styles, Control Styles, Reference Architectures.</p> <p>User Interface Design: Need of UI design, Design issues, The UI design Process, User analysis, User Interface Prototyping, Interface Evaluation.</p> <p>Project Management Software Project Management, Management activities, Project Planning, Project Scheduling, Risk Management.</p> <p>Quality Management: Process and Product Quality, Quality assurance and Standards, Quality Planning, Quality Control, Software Measurement and Metrics.</p>	12
IV	<p>Verification and Validation: Planning Verification and Validation, Software Inspections, Automated Static Analysis, Verification and Formal Methods. Software Testing: System Testing, Component Testing, Test Case Design, Test Automation.</p> <p>Software Measurement: Size-Oriented Metrics, Function-Oriented Metrics, Extended Function Point Metrics</p> <p>Software Cost Estimation: Software Productivity, Estimation Techniques, Algorithmic Cost Modelling, Project Duration and Staffing</p>	12
V	<p>Process Improvement: Process and product quality, Process Classification, Process Measurement, Process Analysis and Modeling, Process Change, The CMMI Process Improvement Framework.</p> <p>Service Oriented Software Engineering: Services as reusable components, Service Engineering, Software Development with Services.</p> <p>Software reuse: The reuse landscape, Application frameworks, Software product lines, COTS product reuse.</p> <p>Distributed software engineering: Distributed systems issues, Client–server computing, Architectural patterns for distributed systems, Software as a service</p>	12

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Software Engineering, edition,	Ian Somerville	Pearson Education.	Ninth	
2.	Software Engineering	Pankaj Jalote	Narosa Publication		
3.	Software engineering, a practitioner's approach	Roger Pressman	Tata Mcgraw-hill	Seventh	

4.	Software Engineering principles and practice	WS Jawadekar	Tata Mcgraw-hill		
5.	Software Engineering- A Concise Study	S.A Kelkar	PHI India.		
6.	Software Engineering Concept and Applications	SubhajitDatta	Oxford Higher Education		
7.	Software Design	D.Budgen	Pearson education	2nd	
8.	Software Engineering	KL James	PHI	EEE	2009

B. Sc. (Information Technology)		Semester – IV	
Course Name: Computer Graphics and Animation		Course Code: USIT405	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Introduction to Computer Graphics: Overview of Computer Graphics, Computer Graphics Application and Software, Description of some graphics devices, Input Devices for Operator Interaction, Active and Passive Graphics Devices, Display Technologies, Storage Tube Graphics Displays, Calligraphic Refresh Graphics Displays, Raster Refresh (Raster-Scan) Graphics Displays, Cathode Ray Tube Basics, Color CRT Raster Scan Basics, Video Basics, The Video Controller, Random-Scan Display Processor, LCD displays.</p> <p>Scan conversion – Digital Differential Analyzer (DDA) algorithm, Bresenham's Line drawing algorithm, Bresenham's method of Circle drawing, Midpoint Circle Algorithm, Midpoint Ellipse Algorithm, Mid-point criteria, Problems of Aliasing, end-point ordering and clipping lines, Scan Converting Circles, Clipping Lines algorithms–Cyrus-Beck, Cohen-Sutherland and Liang-Barsky, Clipping Polygons, problem with multiple components.</p>	12
II	<p>Two-Dimensional Transformations: Transformations and Matrices, Transformation Conventions, 2D Transformations, Homogeneous Coordinates and Matrix Representation of 2D Transformations, Translations and Homogeneous Coordinates, Rotation, Reflection, Scaling, Combined Transformation, Transformation of Points, Transformation of The Unit Square, Solid Body Transformations, Rotation About an Arbitrary Point, Reflection through an Arbitrary Line, A Geometric Interpretation of Homogeneous Coordinates, The Window-to-Viewport Transformations.</p> <p>Three-Dimensional Transformations: Three-Dimensional Scaling, Three-Dimensional Shearing, Three-Dimensional Rotation, Three-Dimensional Reflection, Three-Dimensional Translation, Multiple Transformation, Rotation about an Arbitrary Axis in Space, Reflection through an Arbitrary Plane, Matrix Representation of 3D Transformations, Composition of 3D</p>	12

	Transformations, Affine and Perspective Geometry, Perspective Transformations, Techniques for Generating Perspective Views, Vanishing Points, the Perspective Geometry and camera models, Orthographic Projections, Axonometric Projections, Oblique Projections, View volumes for projections.	
III	<p>Viewing in 3D Stages in 3D viewing, Canonical View Volume (CVV), Specifying an Arbitrary 3D View, Examples of 3D Viewing, The Mathematics of Planar Geometric Projections, Combined transformation matrices for projections and viewing, Coordinate Systems and matrices, camera model and viewing pyramid.</p> <p>Light:Radiometry,Transport,Equation,Photometry Color:Colorimetry,ColorSpaces,ChromaticAdaptation, Color Appearance</p>	12
IV	<p>Visible-Surface Determination: Techniques for efficient Visible-Surface Algorithms, Categories of algorithms, Back face removal, The z-Buffer Algorithm, Scan-line method, Painter’s algorithms (depth sorting), Area sub-division method, BSP trees, Visible-Surface Ray Tracing, comparison of the methods.</p> <p>Plane Curves and Surfaces: Curve Representation, Nonparametric Curves, Parametric Curves, Parametric Representation of a Circle, Parametric Representation of an Ellipse, Parametric Representation of a Parabola, Parametric Representation of a Hyperbola, Representation of Space Curves, Cubic Splines, , Bezier Curves, B-spline Curves, B-spline Curve Fit, B-spline Curve Subdivision, Parametric Cubic Curves, Quadric Surfaces. Bezier Surfaces.</p>	12
V	<p>Computer Animation: Principles of Animation, Key framing, Deformations, Character Animation, Physics-Based Animation, Procedural Techniques, Groups of Objects.</p> <p>Image Manipulation and Storage: What is an Image? Digital image file formats, Image compression standard – JPEG, Image Processing - Digital image enhancement, contrast stretching, Histogram Equalization, smoothing and median Filtering.</p>	12

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Computer Graphics - Principles and Practice	J. D. Foley, A. Van Dam, S. K. Feiner and J. F. Hughes	Pearson	2 nd	
2.	Steve Marschner, Peter Shirley	Fundamentals of Computer Graphics	CRC press	4 th	2016
3.	Computer Graphics	Hearn, Baker	Pearson	2 nd	

4.	Principles of Interactive Computer Graphics	William M. Newman and Robert F. Sproull	TMH	2 nd	
5.	Mathematical Elements for CG	D. F. Rogers, J. A. Adams	TMH	2 nd	

B. Sc. (Information Technology)		Semester –IV	
Course Name: Core Java Practical		Course Code: USIT4P1	
Periods per week 1 Period is 50 minutes	Lectures per week	3	
		Hours	Marks
Evaluation System	Practical Examination	2½	50

List of Practical	
1.	Java Basics
a.	Write a Java program that takes a number as input and prints its multiplication table upto 10.
b.	Write a Java program to display the following pattern. ***** **** *** ** *
c.	Write a Java program to print the area and perimeter of a circle.
2. Use of Operators	
a.	Write a Java program to add two binary numbers.
b.	Write a Java program to convert a decimal number to binary number and vice versa.
c.	Write a Java program to reverse a string.
3. Java Data Types	
a.	Write a Java program to count the letters, spaces, numbers and other characters of an input string.
b.	Implement a Java function that calculates the sum of digits for a given char array consisting of the digits '0' to '9'. The function should return the digit sum as a long value.
c.	Find the smallest and largest element from the array
4. Methods and Constructors	
a.	Designed a class SortData that contains the method asc() and desc().
b.	Designed a class that demonstrates the use of constructor and destructor.
c.	Write a java program to demonstrate the implementation of abstract class.

5.	Inheritance
a.	Write a java program to implement single level inheritance.
b.	Write a java program to implement method overriding
c.	Write a java program to implement multiple inheritance.
6.	Packages and Arrays
a.	Create a package, Add the necessary classes and import the package in java class.
b.	Write a java program to add two matrices and print the resultant matrix.
c.	Write a java program for multiplying two matrices and print the product for the same.
7.	Vectors and Multithreading
a.	Write a java program to implement the vectors.
b.	Write a java program to implement thread life cycle.
c.	Write a java program to implement multithreading.
8.	File Handling
a.	Write a java program to open a file and display the contents in the console window.
b.	Write a java program to copy the contents from one file to other file.
c.	Write a java program to read the student data from user and store it in the file.
9.	GUI and Exception Handling
a.	Design a AWT program to print the factorial for an input value.
b.	Design an AWT program to perform various string operations like reverse string, string concatenation etc.
c.	Write a java program to implement exception handling.
10.	GUI Programming.
a.	Design an AWT application that contains the interface to add student information and display the same.
b.	Design a calculator based on AWT application.
c.	Design an AWT application to generate result marks sheet.

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Core Java 8 for Beginners	Vaishali Shah, Sharnam Shah	SPD	1st	2015
2.	Java: The Complete Reference	Herbert Schildt	McGraw Hill	9th	2014
3.	Murach's beginning Java with Net Beans	Joel Murach , Michael Urban	SPD	1st	2016

4.	Core Java, Volume I: Fundamentals	Hortsman	Pearson	9th	2013
5.	Core Java, Volume II: Advanced Features	Gary Cornell and Hortsman	Pearson	8th	2008
6.	Core Java: An Integrated Approach	R. Nageswara Rao	DreamTech	1st	2008

B. Sc. (Information Technology)		Semester – IV	
Course Name: Introduction to Embedded Systems Practical		Course Code: USIT4P2	
Periods per week 1 Period is 50 minutes	Lectures per week	3	
		Hours	Marks
Evaluation System	Practical Examination	2½	50

List of Practical	
1.	Design and develop a reprogrammable embedded computer using 8051 microcontrollers and to show the following aspects. a. Programming b. Execution c. Debugging
2. A	Configure timer control registers of 8051 and develop a program to generate given time delay.
B	To demonstrate use of general purpose port i.e. Input/ output port of two controllers for data transfer between them.
3. A	Port I / O: Use one of the four ports of 8051 for O/P interfaced to eight LED's. Simulate binary counter (8 bit) on LED's
B	To interface 8 LEDs at Input-output port and create different patterns.
C	To demonstrate timer working in timer mode and blink LED without using any loop delay routine.
4. A	Serial I / O: Configure 8051 serial port for asynchronous serial communication with serial port of PC exchange text messages to PC and display on PC screen. Signify end of message by carriage return.
B	To demonstrate interfacing of seven-segment LED display and generate counting from 0 to 99 with fixed time delay.
C	Interface 8051 with D/A converter and generate square wave of given frequency on oscilloscope.
5. A	Interface 8051 with D/A converter and generate triangular wave of given frequency on oscilloscope.

B	Using D/A converter generate sine wave on oscilloscope with the help of lookup table stored in data area of 8051.
6.	Interface stepper motor with 8051 and write a program to move the motor through a given angle in clock wise or counter clock wise direction.
7.	Generate traffic signal.
8.	Implement Temperature controller.
9.	Implement Elevator control.
10.	Using FlashMagic
A	To demonstrate the procedure for flash programming for reprogrammable embedded system board using FlashMagic
B	To demonstrate the procedure and connections for multiple controllers programming of same type of controller with same source code in one go, using flash magic.

B. Sc. (Information Technology)		Semester – IV	
Course Name: Computer Oriented Statistical Techniques Practical		Course Code: USIT4P3	
Periods per week 1 Period is 50 minutes	Lectures per week	3	
		Hours	Marks
Evaluation System	Practical Examination	2½	50

List of Practical	
1.	Using R execute the basic commands, array, list and frames.
2.	Create a Matrix using R and Perform the operations addition, inverse, transpose and multiplication operations.
3.	Using R Execute the statistical functions:mean, median, mode, quartiles, range, inter quartile range histogram
4.	Using R import the data from Excel / .CSV file and Perform the above functions.
5.	Using R import the data from Excel / .CSV file and Calculate the standard deviation, variance, co-variance.
6.	Using R import the data from Excel / .CSV file and draw the skewness.
7.	Import the data from Excel / .CSV and perform the hypothetical testing.
8.	Import the data from Excel / .CSV and perform the Chi-squared Test.
9.	Using R perform the binomial and normal distribution on the data.
10.	Perform the Linear Regression using R.
11.	Compute the Least squares means using R.
12.	Compute the Linear Least Square Regression

Books and References:

Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	A Practical Approach to R Tool	R.B. Patil, H.J. Dand and R. Dahake	SPD	First	2011
2.	STATISTICS	Murray R. Spiegel, Larry J. Stephens.	McGRAW –HILL INTERNATIONAL	FOURTH	2006

B. Sc. (Information Technology)			Semester – IV	
Course Name: Software Engineering			Course Code: USIT4P4	
Periods per week 1 Period is 50 minutes		Lectures per week	3	
			Hours	Marks
Evaluation System		Practical Examination	2½	50

List of Practical (To be executed using Star UML or any similar software)	
1.	Study and implementation of class diagrams.
2.	Study and implementation of Use Case Diagrams.
3.	Study and implementation of Entity Relationship Diagrams.
4.	Study and implementation of Sequence Diagrams.
5.	Study and implementation of State Transition Diagrams.
6.	Study and implementation of Data Flow Diagrams.
7.	Study and implementation of Collaboration Diagrams.
8.	Study and implementation of Activity Diagrams.
9.	Study and implementation of Component Diagrams.
10.	Study and implementation of Deployment Diagrams.

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
3.	Object - Oriented Modeling and Design	Michael Blaha, James Rumbaugh	Pearson		2011

4.	Learning UML 2. 0	Kim Hamilton, Russ Miles	O'Reilly Media		2006
5.	The unified modeling language user guide	Grady Booch, James Rumbaugh, Ivar Jacobson	Addison-Wesley		2005
6.	UML A Beginners Guide	Jason T. Roff	McGraw Hill Professional		2003

B. Sc. (Information Technology)		Semester – IV	
Course Name: Computer Graphics and Animation		Course Code: USIT4P5	
Periods per week 1 Period is 50 minutes	Lectures per week	3	
		Hours	Marks
Evaluation System	Practical Examination	2½	50

List of Practical	
1.	Solve the following:
a.	Study and enlist the basic functions used for graphics in C / C++ / Python language. Give an example for each of them.
b.	Draw a co-ordinate axis at the center of the screen.
2.	Solve the following:
a.	Divide your screen into four region, draw circle, rectangle, ellipse and half ellipse in each region with appropriate message.
b.	Draw a simple hut on the screen.
3.	Draw the following basic shapes in the center of the screen :
	i. Circle ii. Rectangle iii. Square iv. Concentric Circles v. Ellipse vi. Line
4.	Solve the following:
a.	Develop the program for DDA Line drawing algorithm.
b.	Develop the program for Bresenham's Line drawing algorithm.
5.	Solve the following:
a.	Develop the program for the mid-point circle drawing algorithm.
b.	Develop the program for the mid-point ellipse drawing algorithm.
6.	Solve the following:
a.	Write a program to implement 2D scaling.
b.	Write a program to perform 2D translation

7.	Solve the following:
a.	Perform 2D Rotation on a given object.
b.	Program to create a house like figure and perform the following operations. i. Scaling about the origin followed by translation. ii. Scaling with reference to an arbitrary point. iii. Reflect about the line $y = mx + c$.
8.	Solve the following:
a.	Write a program to implement Cohen-Sutherland clipping.
b.	Write a program to implement Liang - Barsky Line Clipping Algorithm
9.	Solve the following:
a.	Write a program to fill a circle using Flood Fill Algorithm.
b.	Write a program to fill a circle using Boundary Fill Algorithm.
10.	Solve the following:
a.	Develop a simple text screen saver using graphics functions.
b.	Perform smiling face animation using graphic functions.
c.	Draw the moving car on the screen.

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Computer Graphics - Principles and Practice	J. D. Foley, A. Van Dam, S. K. Feiner and J. F. Hughes	Pearson Education	Second Edition	
2.	Steve Marschner, Peter Shirley	Fundamentals of Computer Graphics	CRC press	Fourth Edition	2016
3.	Computer Graphics	Hearn, Baker	Pearson Education	Second	
4.	Principles of Interactive Computer Graphics	William M. Newman and Robert F. Sproull	Tata McGraw Hill	Second	

Revised

As per letter No. AA/ICD/2018-19/542-

UNIVERSITY OF MUMBAI

No. UG/58 of 2018-19

dt. 10/10/2018

CIRCULAR:-

Attention of the Principals of the Affiliated Colleges and Directors of the recognized Institutions in Humanities Faculty is invited to this office circular No. UG/270 of 2017-18, dated 26th October, 2017 relating to syllabus of Bachelor of Arts.

They are hereby informed that the recommendations made by the Board of Studies in Economics at its meeting held on 18th May, 2018 have been accepted by the Academic Council at its meeting held on 14th June, 2018 vide item No. 4.3 and that in accordance therewith, the revised syllabus as per the (CBCS) for the T.Y.B.A. in Economics – Sem V & VI has been brought into force with effect from the academic year 2018-19, accordingly. (The same is available on the University's website www.mu.ac.in).

MUMBAI – 400 032

To 6th June, 2018
July


(Dr. Dinesh Kamble)
I/c REGISTRAR

The Principals of the affiliated Colleges and Directors of the recognized Institutions in Humanities Faculty. (Circular No. UG/334 of 2017-18 dated 9th January, 2018.)

A.C./4.3/14/06/2018

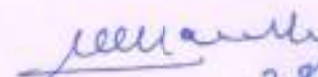
No. UG/58 -A of 2018

MUMBAI-400 032

6th June, 2018
July

Copy forwarded with Compliments for information to:-

- 1) The I/c Dean, Faculty of Humanities,
- 2) The Chairman, Board of Studies in Economics,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Professor-cum-Director, Institute of Distance and Open Learning (IDOL),
- 6) The Co-Ordinator, University Computerization Centre,


28/6/18
(Dr. Dinesh Kamble)
I/c REGISTRAR

AC 14-6-18

Item No. 4.3

University of Mumbai

University of Mumbai



Revised Syllabus Sem. V & Sem. VI Program: B. A. Course: Economics

(As per the Credit Based Semester and Grading System with effect from the academic year 2018-2019)

PREAMBLE:

The syllabus of TYBA has been revised by keeping in view of the recent trends in the subject of economics. The Board of Studies in Economics has revised the syllabi of papers at the TYBA which will be made effective **from the Academic Year 2018-19**. In this revision, some of the existing optional papers have been replaced by new papers. A broad overview of the structure, followed by the syllabi of individual papers, is given below.

DURATION:

- The course shall be a full time course.
- The duration of B.A. course shall be of Three years /Six Semesters.

FYBA: SEMESTER – I & II (One paper each semester)

SYBA: SEMESTER – III & IV (Two papers each semester)

TYBA: SEMESTER – V & VI (Six papers each semester)

PATTERN:

The T.Y.B. A. [Entire Economics] Course shall have 12 papers. Every semester shall have six papers, each carrying 100 marks. However students can opt combination of any two subjects (Economics and any other subject) in which every semester shall have three papers of each subject, carrying 100 marks. Moreover, Papers IX and Papers XII of Semester V and Paper XV and XVIII Semester VI are bifurcated into 80 marks of written exam and 20 marks of project. It is hereby stipulated to have a maximum page limit of 20 for the project.

SCHEME OF EXAMINATION:

The duration of the examination, paper pattern and the allotment of lectures as well as marks are given in detail as follows:

Duration:

- **Three Hours** for each 100 marks paper and Two and Half an Hour for 80 marks paper.

Allotment of Lectures:

- The allotment of lectures is as per the common guidelines stipulated by the Academic Council for Humanities of University of Mumbai.

Paper Pattern:

- There shall be five questions each of 20 marks, for 100 marks paper divided into three sub questions (a, b, c,) with an internal option to choose any two.
- There shall be four questions of 20 marks for 80 marks paper with internal options mentioned as the same above.
- All questions shall be compulsory with internal choice within the questions.
- Questions may be subdivided into sub-questions a, b, c as mentioned earlier and the allocation of marks shall depend on the weightage given to the topic.

Questions	Modules	Marks
Qn.1	Unit I	20
Qn.2	Unit II	20

Qn.3	Unit III	20
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Qn.4	Unit IV	20
Qn.5	4 Sub-questions from Unit I, II, III & IV	20

COURSE STRUCTURE

(APPLICABLE FROM ACADEMIC YEAR 2018 2019)

TYBA (SEMESTER –V)

COURSE CODE		REVISED PAPER	CREDIT	MARKS
GROUP-I : CORE PAPERS				
ECOMIE501	VII	MICROECONOMICS- III	4	100
ECODEV502	VIII	ECONOMICS OF DEVELOPMENT	4	100
GROUP-II :ELECTIVE PAPERS				
ECOFEA503	IX	FINANCIAL ECONOMICS	3	80
OR				
ECOEACB503	IX	ECONOMICS OF AGRICULTURE AND COOPERATION	3	80
OR				
ECOILEC503	IX	INDUSTRIAL AND LABOUR ECONOMICS	3	80
OR				
ECOMSEAA504	X	MATHEMATICAL AND STATISTICAL TECHNIQUES FOR ECONOMIC ANALYSIS	4	100
OR				
ECORMB504	X	RESEARCH METHODOLOGY	4	100

OR				
ECOEHIC504	X	ECONOMIC HISTORY OF INDIA	4	100
OR				
ECOIEA505	XI	INTRODUCTION TO ECONOMETRICS	4	100
OR				
ECOMMEB505	XI	MATHEMATICAL METHODS IN ECONOMICS	4	100
OR				
ECOENVC505	XI	ENVIRONMENTAL ECONOMICS	4	100
OR				
ECOHET506	XII	HISTORY OF ECONOMIC THOUGHT	3	80

MICROECONOMICS III: PAPER VII

SEMESTER –V

COURSE CODE	PAPER TITLE	CREDITS	MARKS
GROUP - I	CORE PAPERS		
ECOMIC501	MICROECONOMICS III : PAPER VII	4	100

Preamble:

The course is designed to provide sound understanding in microeconomic theory. Since students have been taught perfect competition, this course focuses on three aspects, which are the study of imperfect competition, general equilibrium and welfare economics.

Module 1: Monopoly

Sources of monopoly - Profit maximising monopoly – Calculation of price, output and profit for a monopoly- Price discrimination: First, Second and Third degree- Public policy towards monopoly.

Module 2: Basics of Game theory

Prisoner’s Dilemma – Dominant strategy equilibrium – Battle of sexes game – Nash equilibrium – Extensive form games – Game tree.

Module 3: Oligopoly

The Cournot model – The Bertrand model – The Edgeworth model – The Chamberlin model – The Kinked demand curve model – Collusion and Cartels – Price Leadership.

Module 4: General Equilibrium and Welfare Economics

Interdependence in the Economy – General Equilibrium and its Existence -The Pareto Optimality Condition of Social Welfare, Marginal Conditions for Pareto Optimal Resource Allocation.

Perfect Competition and Pareto Optimality – Kaldor- Hicks Compensation Criterion - Arrow’s Impossibility Theorem.

References:

1. Koutsoyannis, Modern Microeconomics, Macmillan Press Ltd., London, 1975.
2. Mankiw, N. Gregory, Principles of Microeconomics, Cengage Learning, 2015.
3. Mansfield, Edwin, Micro-economics: Theory & Applications, 5th edition, W.W. Norton & Company, New York, 1985.
4. Sen Anindya, Microeconomics: Theory and Applications, Second edition Oxford University Press, New Delhi, 2007.
5. Salvatore, D. Microeconomics : Theory and Applications , New Delhi Oxford, New Delhi, Oxford University Press 2006.
6. R.Gibbons , A Primer in Game Theory, Harvester Wheatsheaf, 1992.

ECONOMICS OF DEVELOPMENT: PAPER VIII

SEMESTER –V

COURSE CODE	PAPER TITLE	CREDITS	MARKS
GROUP -I	COMPULSORY PAPERS		
ECODEV502	ECONOMICS OF DEVELOPMENT :PAPER VIII	4	100

Preamble:

This course is designed to inculcate diverse concepts related to economic growth and development by giving special emphasis on structural issues related to the process of development. In order to create an awareness on policy options, the pressing problems on the path of development such as inequality, poverty and technological aspects are dealt in.

Module1:Concepts of Economic Growth and Development:

Meaning of Growth and Development – Distinction between growth & development– Concept of human development. HDI, GDI, Sustainable development – Green GDP – Three core values of development – Capability Approach.

Module 2:Structural Issues in Development Process:

Big push theory – Theory of human capital – Role of Education, Health & nutrition in economic development- Schumpeter’s theory of development, Dual economy models of growth, Solow’s growth model.

Module 3:Inequality, Poverty and Development:

Measures of poverty and inequality – Kuznet’s inverted U-hypothesis – Policy options for poverty alleviation – Inclusive growth – Self Help Groups and Micro Finance.

Module 4:Technology and Economic Development:

Role of Infrastructure in economic development –Role of technology in economic development, Types of technical progress –Schumacher’s Concept of Intermediate/ Appropriate technology, Green technology.

References:

1. Todaro, Michael P. and Stephen C. Smith. Economic Development, 8e. Delhi: Pearson Education, 2003.
2. Thirlwall, A.P. Growth and Development 8e. New York: Palgrave MacMillan, 2005.
3. Meier, Gerald M. and James E. Rauch. Leading Issues in Economic Development, 8e. New Delhi: Oxford Univ. Press, 2006.
4. Mamoria, Joshi, Principles and practice of marketing in India, Kitab Mahal, 1979.
5. Boldwin, Economic Development: Theory, History and Policy, Willy Publishers, 1957
6. Sinha Francis, Microfinance self Help Groups in India: Living up to Their Promises, Practical Action Publishing, England, 2009.

FINANCIAL ECONOMICS: PAPER IX

SEMESTER – V

COURSE CODE	PAPER TITLE	CREDITS	MARKS
GROUP - II	ELECTIVE PAPERS		
ECOFEA503	FINANCIAL ECONOMICS: PAPER IX	3	80

Preamble:

The course introduces students to the economics of Finance. It aims at imparting knowledge about the basic models of investment and portfolio analysis, including the CAPM. The valuation of assets, derivatives and options is to be studied in addition to patterns of corporate financing.

Module 1: Investment & portfolio Analysis:

Basic theory of interest, discounting & present value; internal rate of return, evaluation criteria, fixed income securities; bonds prices & yields. Structure of interest rate, yield curves, spot & forward rates. Portfolio of assets, random asset returns, Mean variance portfolio analysis, The Markowitz Model & two fund theorem.

Module 2: CAPM:

The capital Market line, the CAP Model, the beta of an asset & of a portfolio, security market line, CAPM model in investment & pricing formula.

Module 3: Options & Derivatives:

Meaning, functions & types of derivatives - forward contracts, futures - forward & future prices, stock index futures, interest rate futures, future for hedging. Options & Swaps and their types - Option market: call & put options, option trading strategies - spreads, straddles, strips & straps, strangles, the principle of arbitrage. Participants of derivatives market- hedgers, speculators, arbitrageurs.

Module 4: Corporate Finance:

Patterns of corporate financing: stock, debt, preferences, convertibles. Capital structure & the cost of capital, corporate debt & dividend policy, the Modigliani –Miller theorem.

References:

1. David Luenberger , Investment Science, Oxford University Press, 1997.
2. Hull John C, Options, Futures and other derivatives, Pearson Education, 2005.
3. Thomas Copeland, J. Fred Weston and Kuldeep Shastri, Financial Theory and Corporate Policy, Prentice Hall, 2003.
4. Richard Brealey and Stewart Myers, Principles of Corporate Finance, McGraw Hill, 2002.
5. Stephen Ross and Bradford Jordan, Fundamentals of Corporate Finance, McGraw Hill, 2005.
6. William Sharpe, Gordon Alexander and J. Bailey, Investment, Prentice Hall of India, 2003.

ECONOMICS OF AGRICULTURE AND COOPERATION : PAPER IX

SEMESTER V

COURSE CODE	PAPER TITLE	CREDITS	MARKS
GROUP - II	ELECTIVE PAPERS		
ECOECB503	ECONOMICS OF AGRICULTURE AND COOPERATION : PAPER IX	3	80

Preamble:

This paper provides an overview of the role of agriculture in the economic development of the country and the salient features associated to agricultural productivity and agricultural labour. The pertinent aspects related to agricultural credit, agricultural marketing as well as the global problems existing in the marketing are dealt in. Students can acquire understanding about the features of agricultural policy and the agrarian crisis as well as the problems and challenges in the field of agriculture and cooperation.

Module 1: Agricultural Productivity:

Role of agriculture in economic development - Cropping Pattern Agricultural Productivity, Causes of Low Productivity in Agriculture - Measures taken to improve the Agricultural Productivity in India - Water Management and agricultural development - Agricultural labour: Problems and suggestions.

Module 2: Agricultural Credit:

Institutional and Non-Institutional Sources of Credit - Co-operative Credit and Agriculture, Rural Indebtedness - Commercial Banks and Regional Rural Banks, microfinance - NABARD - Role and Performance.

Module 3: Agricultural Marketing :

Types of Marketing - Corporate, Commodity and Global Problems and Measures of Agricultural Marketing - WTO and Indian Agriculture. Problems of Agricultural Marketing and its measures- National Agricultural Market.

Module 4: Agricultural Price and Policy:

New Agricultural Policy – 2007 - Food Security in India - Price Policy of CACP
Evaluation, Agricultural Crisis and Farmers’ Suicide. Agro-Tourism and its policy

References:

1. Bilgram, S.A.R, Agricultural Economics, Himalaya Publication House, Delhi, 1966
2. Raj K.N, Essays in Commercialization of Indian Agriculture, Oxford University Press, New Delhi, 1988.
3. Thamarajalaxmi R, Intersectoral Relationship in Developing Economy, Academic Foundation, Delhi, 1994.
4. Memoria C. B, Agricultural Problems of India, Kitab Mahal Allahabad, 1979.

5. Datt and Sundaram, Indian Economy, S.Chand & Company, New Delhi,2012.
6. Mishra &Puri, Indian Economy, Himalaya Publishing House, New Delhi,2012.

INDUSTRIAL AND LABOUR ECONOMICS: PAPER IX

SEMESTER V

COURSE CODE	PAPER TITLE	CREDITS	MARKS
GROUP - II	ELECTIVE PAPERS		
ECOILEC503	INDUSTRIAL AND LABOUR ECONOMICS : PAPER IX	3	80

Preamble:

There has been a paradigm shift in the structure of the Indian industrial sector and the policies governing it ever since the new era of globalisation and liberalisation has ushered in. This paper intends to equip the students with the knowledge about the fundamentals of Industrial Economics and also the changing policies related to the Indian industry in the globalised era.

Module 1: Introduction

Meaning and Scope of Industrial Economics, Industrial Profile : Private sector - Performance and Problems; Cooperatives - features, types, merits and demerits; Public Sector - Role, Performance and Problems, Diversification and Industrial Combinations - Motives for Mergers and Acquisitions.

Module 2: Industrial Location and Problem of Regional Imbalance

Determinants of Industrial Location, Theories of Industrial Location - Weber's and Sargent Florence's Theories, Dispersion of Industries and the Problem of Regional Imbalance

Module 3: Industrial Productivity and Industrial Sickness

Concept and Measurement of Industrial Productivity, Factors Affecting Industrial Productivity, Industrial Sickness - Causes, Effects and Remedial Measures, Rationalisation - Concept, Aspects and Impact

Module 4: Industrial Development in India

New Industrial Policy, 1991; Disinvestment Policy; FIPB Revamp- Micro, Small and Medium Enterprises Development Act, 2006; National Manufacturing Policy, 2011,Recent Trends in India's Industrial Growth, Industrial Policy, 2012, Role of MNCs in the Indian Economy - Merits and Demerits, Issues in Industrial Proliferation and Environment Preservation; Pollution Control Policies.

References:

1. Agrawal A.N, Indian Economy, New Age International Publishers, New Delhi, 2011.
2. Barthwal R.R, Industrial Economics, New Age International Publishers, New Delhi, 2007.
3. Cherunilam. F, Industrial Economics: Indian Perspective, Himalaya Publishing House, Mumbai, 1994.
4. Datt R. and Sundaram K.P.M, Indian Economy, S.Chand& Co., New Delhi, 2009.
5. Desai S.S.M. and Bhalerao N, Industrial Economy of India, Himalaya Publishing House, Mumbai, 2008.
6. Kuchhal S.C, Industrial Economy of India, Chaitanya Publishing House, Allahabad, 1980.

MATHEMATICAL AND STATISTICAL TECHNIQUES FOR ECONOMIC ANALYSIS: PAPER X

SEMESTER V

COURSE CODE	PAPER TITLE	CREDITS	MARKS
GROUP - II	ELECTIVE PAPERS		
ECOMSEAA504	MATHEMATICAL AND STATISTICAL TECHNIQUES FOR ECONOMIC ANALYSIS :PAPER X	4	100

Preamble

A plethora of data has emerged at an exponential rate and it is the description, interpretation and understanding of these data and drawing of accurate conclusions that is imperative for a student of Economics. The aim of this paper is to provide students with the mathematical and statistical skills and understanding needed for 'knowing why' and 'when' to apply these techniques.

Module 1: Equations, Graphs and Derivatives

Microeconomic applications of equations and graphs - Linear and non-linear relationships in economic analysis– Market demand and supply models, taxes, elasticity
Derivatives and their applications in various areas of economic analysis – Derivatives–
Higher order derivatives– Increasing and decreasing functions; Necessary and sufficient conditions for maxima and minima– Optimisation of economic functions

Module 2: Linear Algebra

Matrices and basic operations on matrices– Rank of a matrix– Inverse of a matrix–
Cramer's rule– Input-Output Analysis and policy implications– Linear Programming
Problem: Formulation and graphical solution.

Module 3: Descriptive Statistics and graphing techniques for presenting data

Concept of primary and secondary data along with tabulation and graphs – Measures of central tendency (only arithmetic-mean, median, and mode) – Absolute and relative

measures of dispersion (range, quartile deviation, mean deviation and standard deviation)
with simple applications – Measures of skewness and kurtosis – Lorenz Curve.
Commercial Statistics – Brokerage, Commission and Insurance.

Module 4: Elementary Probability Theory

Sample space and events– Mutually exclusive, exhaustive and complimentary events– Conditional probability– Binomial probability distribution– Nature and Properties of the Normal Probability Distribution; Standard Scores and the Normal Curve; The Standard Normal Curve: Finding Areas when the Score is Known, Finding Scores when the Area is Known.

References:

1. Dowling Edward T: Introduction to Mathematical Economics, Schaum Outline Series in Economics, Tata McGraw -Hill, New Delhi, 2004.
2. Dowling Edward T: Theory and Problems of Mathematical Methods for Business and Economics, McGraw –Hill, 1993.
3. Gupta S.P.: Statistical Methods, S. Chand, New Delhi, 2014.
4. Lerner Joel J and P.Zima: Theory and Problems of Business Mathematics, McGraw Hill, New York, 1986.
5. Sancheti D.C. and V.K. Kapoor: Statistics-Theory, Methods and Applications, S. Chand, New Delhi, 2014.
6. Chiang A. C.: Fundamental Methods of Mathematical Economics, 3rd edition, McGraw-Hill, 1984.

RESEARCH METHODOLOGY: PAPER X

SEMESTER V

COURSE CODE	PAPER TITLE	CREDITS	MARKS
GROUP - II	ELECTIVE PAPERS		
ECORMB504	RESEARCH METHODOLOGY : PAPER X	4	100

Preamble:

This paper is designed with the view to introduce the concepts, principles and methods of economic research based on qualitative and quantitative data. The course will enable the students to get an insight into the applications of modern analytical tools and techniques related economic decision making. The student gets an opportunity to learn how to collect and analyze primary and secondary data. Practical sessions will strengthen the knowledge related to computer applications to research analysis.

Module 1: Introduction to Concept of Research:

Nature, Scope & Purpose of social research - Basic assumptions of research - Significance and objectivity in social sciences research - Types of research: pure & applied research; formulative or exploratory research; descriptive research, historical research, experimental research, survey research - Ethical issues and major difficulties relating to research .

Module 2: Elements of Research Methodology:

Steps in Research process: Identification, selection and formulation of research problem – sources of research problem – criteria of a good research problem - Review of literature - Formulation of hypothesis - Preparing Research Design: Definition, Concepts, and types– exploratory, descriptive and diagnostic, experimental and Analytical research designs – Collection and analysis of the data - Interpretation and report writing.

Use of web search in research process- introduction to Internet and WWW - Using search engine like Google, Yahoo etc. Use of advanced search techniques.

Module 3: Sources of Data for Research:

Types of data sources: Primary and Secondary - Primary data-Meaning and Collection methods - Observational method - Interview technique - Design of Schedule and Questionnaire - Survey method and Field Visits - Case Study as a method.

Major Sources of Secondary data: Meaning, advantages, Relevance, limitations and cautions of secondary data.

Sampling Technique: Census and sample survey- Essentials of a good Sampling - Advantages and limitations of sampling, Methods of sampling: Random sampling : Simple or Unrestricted Random Sampling- Mixed or Stratified Random Sampling, Systematic or Quasi Random sampling – Multistage or Cluster Random Sampling - Sequential Random Sampling, Non random sampling : Judgement or Purposive sampling–Convenience sampling accidental sampling – Quota sampling, Selecting an appropriate sampling technique- Sampling and Non-sampling errors - Sample size.

Module 4: Processing and Analysis of Data

Classification, Tabulation and Graphical presentation of socio-economic data - An introduction to Statistical Analytical Tools – Measures of Central Tendency – Measures of Variation: absolute and relative measures – Quartile deviation, standard deviation, coefficient of variation- Skewness: meaning and Measurement (Karl Pearson’s and Bowley’s methods) - Basics of Computer Applications in Data organization & Data Processing, Introduction to spreadsheet application, features and functions, Using formulas and functions, Data storing, Features for Statistical data analysis, Graphical representation of data, Generating charts/ graph and other features.

References:

1. Goode J. William & Hatt K. Paul, Methods in social Research, New York, McGraw-Hill, 1952.
2. Kothari, C.R., Research Methodology: An Introduction, Delhi, New Age, 2004.
3. Krishnaswami, O.R & M. Ranganatham ,Methodology of Research in Social Sciences, Himalaya Publishing House, Mumbai, 2011.
4. P. Saravanavel, Research Methodology, KitabMahal, Allahabad, 1987.
5. Gupta S. P., Statistical Methods, Sultan Chand and Sons, New Delhi, 2014 .
6. Rajaram V., Fundamentals of computers, Prentice Hall of India, New Delhi, 1996.

ECONOMIC HISTORY OF INDIA: 1857-1947: PAPER X

SEMESTER – V

COURSE CODE	PAPER TITLE	CREDITS	MARKS
GROUP - II	ELECTIVE PAPERS		
ECOEHIC504	ECONOMIC HISTORY OF INDIA: 1857-1947 : PAPER X	4	100

Preamble:

This course analyses key aspects of Indian economic development during the second half of British colonial rule. It investigates the place of the Indian economy in the wider colonial context, and the mechanisms that linked economic development in India to the colonial rule.

Module 1: Growth and Structural Change 1857-1947

The state of Indian Economy after 1857 under British Rule- Nature of Communities- Trade and Tariff Policy- Foreign Investment and Exchange Rate Policy, Saving and Investment- Public Finance -Balance of Payments- Great Depression and the Indian Economy.

Module 2: Agriculture and the Commons

Trends in Production and Income-Resources, Regional dimensions of agriculture- land, labour and credit markets- forests and forest-indigenous inhabitants -village commons and pastures-land use patterns-Jhum Cultivation- Waste lands.

Module 3: Industry

Long term patterns of small scale industrialization and its interpretation- handloom, weaving and other industries- labour and capital in traditional small scale industry- modern small scale industry- statistical outline of large scale industry- stages of industrialization and major industries- labour, finance, entrepreneurship and management in large scale industry.

Module 4: Infrastructure, Fiscal and Monetary systems:

Impetus- Irrigation- Railways- Roads and Inland Waterways- Ports- Post and Telegraph- Power- Legal- systems Economic policy and policy making-Trade policy- Fiscal systems- Monetary system- prices.

References:

1. Tirthankar Roy, The Economic History of India 1857-1947, Oxford University Press, 2011.
2. S.Sivasubramonian, National Income of India in the Twentieth Century, Oxford University Press, 2000.
3. SumitGuha (ed.), Growth, Stagnation or Decline?, Delhi , Oxford University Press,1993.

4. A.K. Banerji, India's Balance of Payments, Bombay: Asia Publishing House, 1962.
5. George Blyn, Agricultural Trends in India, 1891-1947: Output, Availability and Productivity, Philadelphia: University of Pennsylvania press, 1966
6. Alice Thorner, The Secular Trend in the Indian Economy, 1881-1951, Economic Weekly, vol.14, 1962.

INTRODUCTION TO ECONOMETRICS: PAPER XI

SEMESTER V

COURSE CODE	PAPER TITLE	CREDITS	MARKS
GROUP - II	ELECTIVE PAPERS		
ECOIEA505	INTRODUCTION TO ECONOMETRICS : PAPER XI	4	100

Preamble:

The objective of this course is to impart a basic understanding of econometrics. At the same time, it will enhance the student's ability to apply the theoretical techniques to the problems of the real world. Topics like forecasting have been introduced to impart this practical orientation.

Module 1: Idea of a random variable:

Concept of a random variable: Discrete and continuous - Expected values of a random variable - Variance of a random variable - Discrete random variables: Bernoulli, Binomial, Poisson - Continuous random variables: The normal distribution.

Module 2: Jointly distributed Random variables:

Joint and marginal distributions for bivariate random variables - Conditional probability- Conditional mean and variance – Covariance - Correlation and Partial correlation - Central limit theorem (without proof).

Module 3: Statistical Inference:

Point and interval estimation - The Z distribution - The Null and Alternate hypotheses and significance testing for mean using Z distribution when population variance is known - The chi-square distribution and testing for sample variance with known population variance - The F distribution and comparing sample variances - The t distribution and hypothesis tests when population variance is unknown.

Module 4: Regression Analysis:

Two variable regression model - The concept of the PRF - Classical assumptions of regression - Derivation of the OLS estimators and their variance - Properties of OLS estimators under classical assumptions, Gauss-Markov Theorem (without proof) - Tests

of Hypothesis, confidence intervals for OLS estimators - Measures of goodness of fit: R square and its limitations, adjusted R square and its Limitations.

References:

1. Damodar N. Gujarati, Basic Econometrics, McGraw-Hill, Delhi, 2003.
2. Kapoor V. K., Operations Research Problems & Solutions, Sultan Chand & sons, Delhi, 2011.
3. Murray R. Spiegel Schaum's Outline of Theory and Problems of Statistics, McGraw- Hill, 1988.
4. Jeffrey M. Wooldridge, Econometrics, Cengage Learning, India Edition, 2009.
5. Damodar Gujarati, Econometrics by Example, Palgrave Macmillan, 2011.
6. Stock J. Watson, Introduction to Econometrics, Prentice Hall, New York, 2003.

MATHEMATICAL METHODS IN ECONOMICS: PAPER XI

SEMESTER V

COURSE CODE	PAPER TITLE	CREDITS	MARKS
GROUP - II	ELECTIVE PAPERS		
ECOMMEB505	MATHEMATICAL METHODS IN ECONOMICS : PAPER XI	4	100

Preamble:

The objective of this paper is to prepare the students the basic mathematics that enables the study of economic theory based on microeconomic theory, macroeconomic theory, statistics and econometrics. In this course, particular economic models are not dealt as the ends, but the means for illustrating the method of applying mathematical techniques to economic theory in general.

Module 1: Functions of one real variable

Graphs; elementary types of functions: quadratic, polynomial, power, exponential, logarithmic; sequences and series: convergence, algebraic properties and applications; continuous functions: characterizations, properties with respect to various operations and applications; differentiable functions: characterizations, properties with respect to various operations and applications; second and higher order derivatives: properties and applications.

Module 2: Single-variable optimization

Geometric properties of functions: convex functions, their characterizations and applications; local and global optima: geometric characterizations, characterizations using calculus and applications.

Module 3: Integration of functions and Differential Equations

Areas under curves; indefinite integrals; the definite integral, First Order Differential Equations.

Module 4: Mathematical Methods and Models

Game Theory, Input Output Model, Linear Programming, Auto Correlation, Multicollinearity , Hetroscadasticity.

References:

1. K. Sydsaeter and P. Hammond, Mathematics for Economic Analysis, Pearson Educational Asia, Delhi, 2002.
2. Damodar N. Gujrati, Basic Econometrics, McGraw-Hill, Delhi, 2003.
3. Chinag A. C.: Fundamental Methods of Mathematical Economics, McGraw-Hill, Delhi,1984.
4. R. G. D. Allan, Mathematical Analysis for Economists, Macmillan and Co., 1962.
5. Dowling Edward T: Introduction to Mathematical Economics, Schaum Outline Series in Economics, Tata McGraw -Hill, New Delhi, 2004.
6. Dowling Edward T: Theory and Problems of Mathematical Methods for Business and Economics, McGraw –Hill, 1993.

ENVIRONMENTAL ECONOMICS: PAPER XI

SEMESTER V

COURSE CODE	PAPER TITLE	CREDITS	MARKS
GROUP - II	ELECTIVE PAPERS		
ECOENVC505	ENVIRONMENTAL ECONOMICS: PAPER XI	4	100

Preamble:

This course focuses on economic causes of environmental problems. In particular, economic principles are applied to environmental questions and their management. Economic implications of environmental policy are addressed as well as valuation of environmental improvements.

Module1: Introduction to Environmental Economics:

Introduction to environmental development and environmental economics, Rio-Declaration on environmental development, Agenda 21 programme of action for sustainable development, Social and economic dimensions, Conservation and management of resources for development.

Module 2: The design and implementation of Environmental Policy:

Overview - Criteria for evaluating environmental policies; Standards, Pigovian taxes and effluent fees, tradable permits, choice between taxes and quotas, implementation of environmental policy.

Module 3: Measuring benefits of environmental improvements:

Economic value of Environment- Use and Non-use values-Measurement method:-market based and non-market based methods, contingent valuation, travel cost method, hedonic price method, risk assessment and perceptions.

Module 4: Environmental problems:

The global environment- Trans-boundary environmental problems, economics of climate change, International environmental Agreements - , sustainable development: Concepts and measures.

References:

1. Barry C. Fields: Environmental Economics : An Introduction, McGraw Hill International Edition, 1997.
2. Charles Kolstad : Environmental Economics, Oxford University Press, New York, 2000.
3. Kaltschmitt, Martin, Streicher, Wolfgang, Wiese, Andreas, Renewable Energy: Technology, Economics and Environment, Springer, Germany, 2007.
4. Hanley Nick, Shogren Jason and White Ben: Introduction to Environmental Economics, Oxford University Press, 2001.
5. Smith Stephen: Environmental Economics: A very Short Introduction, 1st Edition, Oxford University Press, New York, 2011.
6. United Nations Sustainable Development, UN Conference on Environment & Development, Rio de Janeiro, Brazil, Agenda 21, <https://sustainabledevelopment.un.org/content/documents/Agenda21.pdf>, 1992.

HISTORY OF ECONOMIC THOUGHT: PAPER XII SEMESTER V

COURSE CODE	PAPER TITLE	CREDITS	MARKS
GROUP - II	ELECTIVE PAPERS		
ECOHET506	HISTORY OF ECONOMIC THOUGHT: PAPER XII	3	80

Preamble:

This course provides basic understanding about the celebrated economists and their contributions starting from the classical period. It throws light on the contributions of Nobel Laureates of recent period too.

Module 1: Classical Period

Adam Smith - division of labour, theory of values, capital accumulation, distribution, David Ricardo- Value, theory of rent, distribution. Karl Marx - dynamics of social changes, theory of values, surplus value, profit and crisis of capitalism and Contemporary Relevance.

Module 2: Marginalist : Marshall To Schumpeter

Role of time in price determination , economics methods, ideas of consumer's surplus, representative firm, external and internal economies, quasi-rent, nature of profit; Pigou : welfare economics: Schumpeter: role of entrepreneur and innovation.

Module 3: Keynesian Ideas:

Liquidity Preference Theory and Liquidity trap, Consumption Function, MPC,

Multiplier & Accelerator principles and their interaction, wage rigidities, underemployment equilibrium, role of fiscal policy: deficit spending and public works, multiplier principles, cyclical behaviour of the economy.

Module 4: Post- Keynesian Developments:

Hayek – Supply side economics: Arthur Laffer, Evans – Monetarism: Milton Friedman’s Don Patinkin – An overview of the new classical economics: Robert Lucas.

Nobel Prize Winners in Economics: A. K. Sen (1998), Joseph Stiglitz (2001), Paul Krugman (2008), Jean Tirole (2014), Angus Deaton (2015), Richard Thaler (2017).

Reference:

1. Gide, O. and G. Rist , A History of Economic Doctrine, George Harrop Co., London, 1956.
2. Roll, E, A History of Economic Thought, Faber Landon, 1973.
3. Dasgupta A. K, Epochs of Economic Theory Oxford University Press. New Delhi, 1985.
4. Schumpeter, J.A, Ten Great Economist, Oxford University Press, New York, 1951.
5. Ghosh and Ghosh: Concise History of Economic Thought, Himalaya Publishers.
6. Puttaswamaiah K, Nobel Economists – Lives and Contributions, Indus Public Co., New Delhi, 1995.

TYBA (SEMESTER –VI)

COURSE CODE		REVISED PAPER	CREDIT	MARKS
GROUP-I : COMPULSORY PAPERS				
ECOMA601	XIII	MACRO ECONOMICS- III	4	100
ECOINT602	XIV	INERNATIONAL ECONOMICS	4	100
GROUP-II : ELECTIVE PAPERS				
ECOIFSA603	XV	INDIAN FINANCIAL SYSTEM	3	80
OR				
ECOEACB603	XV	ECONOMICS OF AGRICULTURE & COOPERATION	3	80
OR				
ECOILEC603	XV	INDUSTRIAL AND LABOUR ECONOMICS	3	80

ECOMSEA604	XVI	MATHEMATICAL & STATISTICAL TECHNIQUES FOR ECONOMIC ANALYSIS	4	100
OR				
ECORMB604	XVI	RESEARCH METHODOLOY	4	100
OR				
ECOIETC604	XVI	INDIAN ECONOMIC THOUGHT	4	100
OR				
ECOTPEA605	XVII	THEORY AND PRACTICE OF ECONOMETRICS	4	100
OR				
ECOAEB605	XVII	APPLIED ECONOMETRICS	4	100
OR				

ECODTEC605	XVII	DEVELOPMENT THEORY AND EXPERIENCE	4	100
ECOITPP606	XVIII	INTERNATIONAL TRADE, POLICY AND PRACTICE	3	80

MACROECONOMICS III: PAPER XIII

SEMESTER –VI

COURSE CODE	PAPER TITLE	CREDITS	MARKS
GROUP -I	COMPULSORY PAPERS		
ECOMA601	MACROECONOMICS III: PAPER XIII	4	100

Preamble:

This course introduces the students to formal modelling of a macroeconomic theory with analytical tools. It focuses on goods market with fixed exchange rate, the money market, uncovered interest rate parity and the benefits and costs of fixed and flexible exchange rates.

Module 1: The Goods Market in the Open Economy:

Trade Balance and its implications for GDP calculations – Export and Import Functions
 – The Real Exchange Rate and why it matters –Why equilibrium GDP is consistent with a trade imbalance? – Fiscal and Exchange Rate Policy with a Fixed Exchange Rate.

Module 2: Money/Financial Markets and Mundell-Fleming Model:

The LM equation for the open economy –Uncovered Interest Parity and its implications for exchange rate determination – The combined IS/LM/UIP model.

Fiscal and Monetary Policy under Fixed and Flexible Exchange Rates– The Mundell-Fleming trilemma.

Module 3: Exchange Rate Regimes & Exchange Rate Crises:

The choice of regime – Fixed or Flexible – The spectrum of arrangements from Hard Peg at one end to Fully Floating at the other; Why the Balance of Payments must always balance under Floating Exchange Rates but need not balance under a Fixed or Managed Exchange Rate regime.

Exchange Rate crises – The relation between Exchange Rate crises and other kinds of

crises (banking crises, financial crises, etc.).

Module 4: International Monetary History, 1900-present:

The Gold Standard – The Inter-War Period and the Great Depression – 1944, Bretton Woods System and its collapse ; Fixing in Europe via ERM, and the Dollar Standard elsewhere.

The Maastricht Treaty and preparations for the Euro; The Global Financial Crisis and its consequences for the Euro; The Euro Crisis, Asia Infrastructure Investment Bank (AIIB), New Development Bank (NDB).

References:

1. Blanchard, Oliver, Macroeconomics , Pearson education, New Delhi, India, 2008.
2. Dornbusch R S, Fischer and R Startz; Macroeconomics, 8e Tata Mc Grow Hill, New Delhi, 2004.
3. Froyen, R. T.; Macroeconomics : Theory and Policy, Pearson Education Asia, Delhi, 2001.
4. Mankiw, Gregory; Macroeconomics, 6e, Worth Publishers, New York, 2003.
5. Salvatore, D.; International Economics, Printice Hall, New York, 1997 .
6. Robert C Feenstra & Alan M Taylor , International Trade, Worth Publishers, 2014.

INTERNATIONAL ECONOMICS: PAPER XIV

SEMESTER –VI

COURSE CODE	PAPER TITLE	CREDITS	MARKS
GROUP - I	COMPULSORY PAPERS		
ECOINT602	INTERNATIONAL ECONOMICS: PAPER XIV	4	100

Preamble:

This course develops a systematic exposition of models which explain the composition, direction, and consequences of international trade, and the determinants and effects of trade policy. It then builds on the models of open economy macroeconomics focussing on national policies as well as international monetary systems. It concludes with an analytical account of the causes and consequences of the rapid expansion of international financial flows in recent years.

Module 1: Introduction

Importance of the study of International Economics - An overview of world trade- Distinction between domestic & international Trade -Concepts of Cost Difference , Adam Smith’s Theory of International Trade, The Ricardian Theory.

Module 2: Modern Theories of International Trade

Heckshcher- Ohlin Theory of International Trade, Factor Abundance: Two Criteria, Leontief Paradox, Haberler's theory of Opportunity Cost, Law of reciprocal demand and offer curves, Role of Factor Accumulation, Stolper-Samuelson theorem.

Module 3: Importance of Trade and Recent trends:

Monopolistic competition and trade - firm heterogeneity, FDI: The concept and role, FDI Inflows- FDI Outflows, and the global supply chain, Business Process Outsourcing.

Module 4: Trade Policy and Regionalism

Instruments of trade policy; Why countries cooperate? -GATT, GATS, Regional Trade Agreements - controversies in trade policy (labour standards, IPR and environment) - ASEAN, SAARC, SAFTA, Protectionism.

References:

1. Paul Krugman, Maurice Obstfeld, and Marc Melitz, International Economics: Theory and Policy, Addison-Wesley (Pearson Education Indian Edition), 9th edition, 2012.
2. Dominick Salvatore, International Economics: Trade and Finance, John Wiley International Student Edition, 10th edition, 2011.
3. Gordon Hanson, „The Rise of Middle Kingdoms: Emerging Economies in Global Trade”, Journal of Economic Perspectives, Spring 2012.
4. Melitz M. and Trefler D., “Gains from Trade When Firms Matter”, Journal of Economic Perspectives, Spring 2012.
5. Kindleberger Charles P, International Economics, Homewood, USA, 1978
6. Bo Sodersten and Geoffrey Reed, International Economics, Palgrave Macmillan, 1994.

INDIAN FINANCIAL SYSTEM: PAPER XV

SEMESTER – VI

COURSE CODE	PAPER TITLE	CREDITS	MARKS
GROUP - II	ELECTIVE PAPERS		
ECOIFSA603	INDIAN FINANCIAL SYSTEM : PAPER- XV	3	80

Preamble:

The basic purpose of this paper is to acquaint students with various components of the Indian financial system, its working and the trends that have taken place over the years especially since financial sector reforms.

Module 1: Indian Financial System: Structure, Trends and Turns

Meaning and components of the Financial System - Financial System and Economic Development - Indicators of Financial Development: FR, FIR, NIR and IR – Overview of financial sector reforms since 1990s – Trends and turns in Indian financial sector: 1950-2017.

Module 2: Banking in India since 1990s.

Developments in Commercial banking sector since 1990s – Management of Non-Performing Assets (NPAs); Capital Adequacy Norms - Basel Accord III - Monetary policy of the RBI –

Changes in RBI monetary policy since 1990s - Monetary Policy Committee (MPC), Payment Banks, Mudra Bank- Transmission Channels of Monetary policy.

Module 3: Money and Capital Markets in India:

Money Market: Components of organized money market – Reforms in the money market - Features of Indian Money Market.

Capital Market: Structure of the Indian Capital Market – Recent Developments in the Capital Market – Role of SEBI - Interlink between Money Market and Capital Market - Overview of Debt Market in India – Islamic Banking, Merchant Banking and Investment Banking.

Module 4: Non-Banking sector of the Financial System:

Non-Bank Finance Companies (NBFCs) in India and their progress - Developments in India's Insurance sector – Progress of Mutual Funds industry in India - Credit Rating Agencies in India.

References:

1. Pathak, Bharati, The Indian Financial System –Markets, Institutions, and Services, Pearson Education, New Delhi, 2008.
2. Bhole, L. M, Financial Institutions and Markets, Growth and Innovation, Tata McGraw-Hill, New Delhi, 2008.
3. Khan, M.Y, Financial Services, Tata McGraw Hill, New Delhi, 2007.
4. Reserve Bank of India (various issues) Report on Currency and Finance, RBI, Mumbai.
5. Rakesh Mohan & Partha Ray, Indian Financial Sector: Structure, Trends & Turns; IMF Working Paper (WP/17/7). <https://www.imf.org> Issues > 2017/01/20
6. Dutta Abhijit, Indian Financial System, Excel Books, Delhi, 2012.

ECONOMICS OF AGRICULTURE AND COOPERATION : PAPER XV

SEMESTER VI

COURSE CODE	PAPER TITLE	CREDITS	MARKS
GROUP - II	ELECTIVE PAPERS		
ECOECB603	ECONOMICS OF AGRICULTURE AND COOPERATION :PAPER XV	3	80

Preamble:

The paper is designed to provide various aspects related to the principles of cooperation and cooperative organizations in the globalized economy. The essentials of cooperative finance are dealt in with reference to the latest trends.

Module 1: Co-operation:

Meaning and features of Co-operation - Principles of Co-operation (Manchester-1995) – Role of Co-operation in Economic development - Globalization and Co-operation- Importance and Benefits of Co-operation, Use of Big data Artificial Intelligence (AI) in Indian Agriculture.

Module 2: Co-operative Finance in India:

Co-Operative Finance: Need, Structure, Progress and Problems - National Co-operative Development Corporation (N.C.D.C.), Aadhar as KYC Norm for Agricultural Finance - Farmers service societies and urban Co-operative banks.

Module 3: Agricultural Co-operatives:

Role and Types of Agro-Industries - Problems and Measures of Agro-Industries – Sugar and Dairy Co-operatives - Food and Fruits Processing Industry - Co-Operative Farming.

Module 4: Co-operative Organizations in India:

Consumer Co-operatives - Co-Operative Marketing - Housing Co-operative societies - Labour Co-operative societies - Agricultural Marketing societies-Leadership in Cooperative development.

References:

1. R. D. Bedi, Theory, History and Practice of Co-Operation, International Publishing House, Meerut(U.P.), 1983.
2. Mathur B. S, Co-Operation in India, Sahitya Bhavan, Agra, 2000.
3. John Matthai, Agricultural Co-Operation in India , Reliance Publishing House, New Delhi, 1925.
4. Krishnaswami, Fundamentals of Co-Operation, S. Chand and Company Ltd, New Delhi, 1985.
5. Hajela T.N, principles, problem and practice of Co-operation, Agarwal publication, New

Delhi, 2000.

6. Government of Maharashtra - Co-operative movement at a Glance (latest annual report).

INDUSTRIAL AND LABOUR ECONOMICS: PAPER XV

SEMESTER – VI

COURSE CODE	PAPER TITLE	CREDITS	MARKS
GROUP - II	ELECTIVE PAPERS		
ECOILEC603	INDUSTRIAL AND LABOUR ECONOMICS :PAPER XV	3	80

Preamble:

Issues pertaining to the labour market, wage policy, trade unions and amicable solutions to industrial disputes have become vital for developing countries, especially for India, where the bulk of the labour force is employed in the unorganised sector, and the organized sector is witnessing a phenomenon of 'jobless' growth. This paper intends to provide knowledge of the same and also discusses the importance of labour welfare and social security measures for the growing labour force in India.

Module 1 : Introduction – Indian Labour Market

Characteristics of the Indian Labour Market - Child Labour and Female Labour – Problems and Measures- Globalisation and Indian Labour Market -Labour Market Reforms – Exit Policy and Need for Safety Nets - Second National Commission on Labour.

Module 2 : Trade Unionism

Definition and Functions of Trade Unions- Historical Evolution of Trade Unions in India and Their Present Status - Problems of Trade Unions in India - Role of Outside Leadership

Module 3 : Industrial Relations

Causes of Industrial Disputes and Their Settlement Mechanism - Collective Bargaining – Concept, Features, Importance and Pre-requisites for Successful Collective Bargaining - Collective Bargaining in India - Workers’ Participation in Management –Concept, objectives and Forms of Workers’ Participation in India.

Module 4 : Labour Welfare and Social Security

Concept, Theories and Principles of Labour Welfare - Agencies for Labour Welfare - Role of the Labour Welfare Officer - Social Security – Concept; Social Assistance and Social Insurance - Social Security Measures in India - International Labour Organization

and Its Impact on Indian Labour Legislations.

References:

1. Datt R. and Sundaram K.P.M, Indian Economy, S.Chand & Co., New Delhi, 2009.
2. Mamoria C.B. and Mamoria S, Dynamics of Industrial Relations, Himalaya Publishing House, Mumbai, 2002.
3. Mishra S.K. and Puri V.K, Indian Economy, Himalaya Publishing House, Mumbai, 2002.
4. Monappa A, Industrial Relations, Tata McGraw Hill Publishing Company Ltd., New Delhi, 2006
5. Ratna Sen, Industrial Relations in India - Shifting Paradigms, Macmillan, New Delhi, 2005.
6. Singh J.K, Labour Economics – Principles, Problems and Practices, Deep andDeep Publications Pvt. Ltd., New Delhi, 1998.

**MATHEMATICAL AND STATISTICAL TECHNIQUES FOR
ECONOMIC ANALYSIS: PAPER –XVI**

SEMESTER VI

COURSE CODE	PAPER TITLE	CREDITS	MARKS
GROUP - II	ELECTIVE PAPERS		
ECOMSEA604	MATHEMATICAL AND STATISTICAL TECHNIQUES FOR ECONOMIC ANALYSIS :PAPER- XVI	4	100

Preamble:

This paper proposes to equip the students with analyzing skills with sound footing of relevant mathematical and statistical techniques. Economic analysis and interpretation of data cannot be carried out in the absence of knowledge of these techniques narrated here.

Module1: Techniques and applications of partial derivatives

Functions of several variables and partial derivatives - Second order partial derivatives - Optimisation of multivariable functions - Constrained optimisation with Lagrange multiplier and its economic interpretation - Marginal productivity, Income and price elasticity of demand - Homogeneous production functions and returns to scale - Cobb-Douglas production function

Module 2: Integral Calculus:

Integration and Definite integral; area under the curve - Economic applications - Present value of cash flows(present value of a sum to be received in future and present value of a stream of future income) - Consumer's and Producer's Surplus- Learning curve.

Module 3: Correlation and Regression:

The meaning and significance of Correlation; Scatter plot of Bivariate Distributions; Correlation and Causation - Karl Pearson's coefficient of correlation: Spearman's rank correlation coefficient - Simple regression analysis- Method of Least Squares and Regression Lines, Regression Coefficients, Relationship between correlation coefficients and regression coefficients.

Module 4: Index Numbers and Time Series:

Simple and composite index numbers- Construction, uses and problems of index numbers- Laspeyre's, Paasche's and Fisher's Index numbers- Cost of living index numbers-real income – wholesale price index number- Splicing of index numbers, Components of time series, Estimation and forecasting of trend by the Least Squares Method.

References:

1. Dowling Edward T: Introduction to Mathematical Economics, Schaum's Outline Series in Economics, Tata McGraw Hill, New Delhi, 2004.
2. Lerner Joel J and P. Zima: Theory and Problems of Business Mathematics, McGraw Hill, New York, 1986.
3. Dowling Edward T: Theory and Problems of Mathematical methods for Business and Economics, McGraw –Hill, 1993
4. Gupta S.P.: Statistical Methods, S. Chand, New Delhi.
5. Sancheti D.C. and V.K. Kapoor: Statistics-Theory, Methods and Applications, S. Chand, New Delhi, 2014.
6. Chiang A.C: Fundamental Methods of Mathematical Economics, 3rd ed., McGraw-Hill, 1984.

RESEARCH METHODOLOGY: PAPER XVI

SEMESTER –VI

COURSE CODE	PAPER TITLE	CREDITS	MARKS
GROUP - II	ELECTIVE PAPERS		
ECORMB604	RESEARCH METHODOLOGY :PAPER XVI	4	100

Preamble:

This paper is designed with a goal to strengthen the critical thinking and listening skills in conducting economic research and to device research outcomes in an impeccable way. The entire course is based on the broad social sciences spectrum.

Module 1: Statistical applications in research:

Methods of studying Correlation- measurement of simple correlation: graphic method: scatter diagram - coefficient of correlation - Karl Pearson and rank correlation interpretation of $r = \pm 1$

Linear Regression analysis: meaning, regression lines, regression coefficients, regression equations, relationship between correlation and regression.

Analysis of Time Series – components –trend analysis- moving averages (3, 4 and 5 yearly)- method of least square.

Module 2: Index numbers:

Meaning – classification – problems encountered while constructing index numbers- uses and limitation of index numbers, Methods of constructing index numbers: Simple index: i) aggregate method ii) simple average of relatives method, Weighted index: Laspeyer's, Paache's and Fisher's index – weighted average of relatives method, Chain based index – concepts of Base shifting, splicing, and deflating, Consumer price index: meaning, need and construction – methods: aggregate expenditure method and family budget method.

Module 3: Hypothesis formulation and Hypothesis Testing:

Definition and functions of hypothesis –Criteria of workable hypothesis – forms and sources of hypothesis- Concepts in Testing of Hypothesis: Universe / Population, parameter and statistic, Null and Alternative Hypotheses, Levels of Significance, critical region, Type I and Type II errors - Point and Interval Estimates.

Module 4: Research Report Writing:

Types of Research Report: Technical, Popular, Interim, Summary, Article- Format of a Research Report- Principles of writing the Research Report: Organization and Style - Contents-Styles of reporting- Steps in drafting Reports- Editing the final draft-Evaluating the final draft -Organization of the Research Report: Preliminaries, Contents of Report, Structuring the Report: Chapter format- Pagination- Identification- Using quotations- Presenting footnotes –abbreviations- Presentation of tables and figures- Referencing- Documentation-Use and format of appendices- Indexing - Bibliography, Appendices.

References:

1. Goode J. William & Hatt K. Paul, Methods in social Research, New York, McGraw-Hill, 1952.
2. Kothari, C.R (2004) Research Methodology: An Introduction, Delhi, New Age, 2004.

3. Krishnaswami, O.R & M. Ranganathan , Methodology of Research in Social Sciences, Himalaya Publishing House, Mumbai, 2011.
4. Kumar, Renjith (2009) Research Methodology: A Step by Step Guide for Research, Delhi, Pearson Education, 2009.
5. P.Saravanavel Research Methodology, KitabMahal, Allahabad, 1987.
6. Gupta S P Statistical Methods Sultan Chand and Sons, New Delhi, 1987.

INDIAN ECONOMIC THOUGHT: PAPER XVI

SEMESTER VI

COURSE CODE	PAPER TITLE	CREDITS	MARKS
GROUP - II	ELECTIVE PAPERS		
ECOIETC604	INDIAN ECONOMIC THOUGHT : PAPER XVI	4	100

Preamble:

The history of Indian economic thought provides rich insights into both economic issues and the workings of the Indian mind. It will give the student an introduction to major Indian thinkers and their ideas on Indian economic policy.

Module 1: The Modernists

Naoroji :- Drain theory, criticism and long run relevance, Ranade's views on railway investment and the methodology of Indian economics, Gokhale:-Gokhale and the economics of education, the rupee ratio debate , Dr. Ambedkar's contribution to the rupee debate.

Module 2: Agriculture, Poverty and Famines

Why do famines occur? Famine policy, criticism of famine policy, Ranade's views on Poverty and Industrialisation, agrarian policy, contribution of Dr.B.R.Ambedkar.

Module 3: Economic Policy after Independence

Nehruvian economics –Mahalonobis model and planning, industrial stagnation, industry and trade, agriculture and the wage goods model , reappraisal of Nehru's economics

Module 4: Economic Thought in Contemporary India

Measurement of poverty, liberalisation, privatisation and globalisation, Human development and AmartyaSen's contribution, JagadishBhagawati's contribution.

References:

1. Jadhav Narendra, Ambedkar : An Economist Extraordinaire , Konark Publishers, New Delhi, 2015.
2. Dasgupta A.K.(1993) : A History of Indian Economic Thought , Routledge, 1993.
3. Balkrishnan P. , The Recovery of India: Economic Growth in the Nehru Era, Economic and Political Weekly, Vol. 42, No. 45/46 (Nov. 10 - 23, 2007), pp. 52-66, 2007.
4. A.Sen: Development as capabilities Expansion, [http://morgana.unimore.it/Picchio_Antonella / Sviluppo%20umano/svilupp%20umano/Sen%20development.pdf](http://morgana.unimore.it/Picchio_Antonella/Sviluppo%20umano/svilupp%20umano/Sen%20development.pdf)
5. A.Pangariya: Why Growth Matters: How India's Growth Acceleration has Reduced Poverty, [http://www.cde.org.za/wp-content/uploads/2013/09/Prof%20Arvind%20Panagariya Why% 20growth% 20matters_% 20How% 20Indias% 20growth% 20acceleration% 20has% 20reduced% 20poverty.pdf](http://www.cde.org.za/wp-content/uploads/2013/09/Prof%20Arvind%20Panagariya%20Why%20growth%20matters_%20How%20Indias%20growth%20acceleration%20has%20reduced%20poverty.pdf)
6. Deaton Angus(2013) : What is Going on in India, [https://scholar.princeton.edu/sites/default/ files/deaton/files/deaton_book_review_sen_dreze_etc_lancet_2013_0.pdf](https://scholar.princeton.edu/sites/default/files/deaton/files/deaton_book_review_sen_dreze_etc_lancet_2013_0.pdf)

THEORY AND PRACTICE OF ECONOMETRICS: PAPER XVII

SEMESTER VI

COURSE CODE	PAPER TITLE	CREDITS	MARKS
GROUP - II	ELECTIVE PAPERS		
ECOTPEA605	THEORY AND PRACTICE OF ECONOMETRICS : PAPER XVII	4	100

Preamble:

The paper is aims to help students understand the art of model building. It focuses on building the appropriate model and testing it statistically and to apply it to the practical problems in forecasting and analysis.

Module 1: Econometric Model Specification:

Identification: Structural and reduced form - Omitted Variables Bias- Errors in measurement- Endogeneity and Bias.

Module 2: Failure of Classical Assumptions

Multi-collinearity and its implications - Auto-correlation: Consequences and Durbin-Watson test- Heteroskedasticity: Consequences and the Goldfeld -Quandt test.

Module 3: Forecasting:

Forecasting with a) moving averages b) linear trend c) exponential trend- CAGR- Forecasting with linear regression- Classical time series decomposition- Measures of forecast performance: Mean Square Error and Root Mean Square Error - Limitations of econometric forecasts.

Module 4: Linear Programming:

Linear programming - Dual of a linear programming problem - Simplex method - Transportation.

References:

1. Damodar N. Gujarati, Basic Econometrics, McGraw-Hill, Delhi, 2003.
2. Kapoor V. k. (2011), Operations Research Problems & Solutions, Sultan Chand & sons.
3. Lipschutz (Schaum Series), Theory and Problems of Statistics.
4. Wooldridge Jeffery M., Introductory Econometrics: A Modern Approach. 6th edition, Cengage Learning, USA, 2016.
5. Stock James H. and Watson Mark W., Introduction to Econometrics, Updated 3rd Edition, Global Edition, Pearson Education Limited, 2015.
6. Makridakis Spyros and Steven C Wheelright, Forecasting Methods and Applications, Willey Publications, 2008.

APPLIED ECONOMETRICS: PAPER XVI

SEMESTER VI

COURSE CODE	PAPER TITLE	CREDITS	MARKS
GROUP - II	ELECTIVE PAPERS		
ECOAE605	APPLIED ECONOMETRICS: PAPER XVI	4	100

Preamble:

The aim of this course is to provide a foundation in applied econometric analysis and to develop skills required for empirical research in economics. Topics include specification and selection of regression models, dynamic econometric models, advanced methods in regression analysis and panel data models. Since the emphasis is on application of methods, this course requires understanding of econometric software and computing skills.

Module 1: Violations of Assumptions in the Linear Regression model:

Heteroscedasticity, implications, testing and remedy, autocorrelation, implications, testing and remedy, multicollinearity

Module 2: Regression Diagnostics and Specification:

Misspecification; functional forms; model selection, endogeneity and instrumental variables

Module 3: Advanced Topics in Regression Analysis:

Dynamic Econometric Models: distributed lag models; autoregressive models; simultaneous equation models.

Module 4: Introduction to Panel Data and Research softwares.

What is a Panel data? Difference with Time Series Data- Multivariate data, Regression with Panel data, General Introduction to Research Softwares like R, Eviews and SPSS.

Readings:

1. Jeffrey M. Wooldridge, *Econometrics*, Cengage Learning, India Edition, 2009.
2. Dimitrios Asteriou and Stephen Hall, *Applied Econometrics: A Modern Approach*, Palgrave Macmillan, 2007.
3. Damodar Gujarati, *Econometrics by Example*, Palgrave Macmillan, 2011.
4. Kleiber C and Zeilis A, *Applied Econometrics with R*, Springer, Use R1, 2008.
5. Baltagi B H, *Econometric Analysis of Panel data*, Wiley Publications, 2013.
6. Walters Enders, *Applied Econometric Time Series*, Wiley Publications, USA, 2014.

DEVELOPMENT THEORY AND EXPERIENCE: PAPER XVII

SEMESTER VI

COURSE CODE	PAPER TITLE	CREDITS	MARKS
GROUP - II	ELECTIVE PAPERS		
ECODTEC605	DEVELOPMENT THEORY AND EXPERIENCE : PAPER XVII	4	100

Preamble:

This is the second paper of economic development sequence. The course begins with demographic concepts and their evolution during the process of development. Then it focuses on the theory migration and discusses the link between migration and development. The structure of markets and contracts is linked to the particular problems of enforcement experienced in poor countries. The course ends with the issues related to environment and development.

Module I: Demography and Development:

Demographic concepts; birth and death rates, age structure, fertility and mortality; demographic transitions during the process of development; gender bias in preferences and outcomes and evidence on unequal treatment within households; connections between income, mortality, fertility choices and human capital accumulation.

Module II: Structural Transformation:

The Lewis model –Clark-Fisher model of structural change , Urbanization: Trends and Projections with reference to India, Urbanization and Development, Causes of urbanization, Urban informal sector, Policies for the urban informal sector, Migration and development, Economic theory of rural-urban migration: Harris-Todaro migration model

Module III: Land, Labor and Credit Markets:

Role of Agriculture in Economic Development, Market Failure and Agriculture, The distribution of land ownership; Land reform and its effects on productivity; contractual relationships between tenants and landlords; Land Acquisition; Nutrition and Labour Productivity; Rural Credit Market; Microfinance; Inter-linkages between Rural Factor Markets.

Module IV: The Environment and Development:

The core of environmental problems- Rural poverty and environmental destruction- industrialization and environmental pollution - Economic models of environmental issues: privately owned resources, common property resources, public goods: regional environmental degradation and the free rider problem, limitations of public goods

framework.

References:

1. Debraj Ray, Development Economics, Oxford University Press,2009.
2. Partha Dasgupta, Economics: A Very Short Introduction, Oxford University Press,2007.
3. Abhijit Banerjee, Roland Benabou and Dilip Mookerjee, Understanding Poverty, Oxford University Press,2006.
4. Amartya Sen, Development as Freedom, Oxford University Press,2000.
5. Daron Acemoglu and James Robinson, Economic Origins of Dictatorship and Democracy, Cambridge University Press,2006.
6. Michael Todaro and Stephen Smith : Economic Development,11th edition, Pearson

**INTERNATIONAL TRADE, POLICY AND PRACTICE
: PAPER XVIII**

SEMESTER VI

COURSE CODE	PAPER TITLE	CREDITS	MARKS
GROUP - II	ELECTIVE PAPERS		
ECOITPP606	INTERNATIONAL TRADE, POLICY AND PRACTICE : PAPER- XVIII	3	80

Preamble:

This course is designed for addressing changing phase of International Trade Policy and Practice. The main purpose of this course is to expose students to current trends in International developments.

Module 1 :Introduction

Inter regional and international trade, Role of Dynamic factors i.e. change in Tastes, Technology and Role of Factor Accumulation.

Foreign Exchange Rate: Concepts - Short and Forward rates - Foreign Exchange rate determination – Fixed and flexible exchange rate – Interrelationship between exchange rates and Interest rates.

Exchange Rate system in India, managed floating, Current and Capital Account

Convertibility and their impact, FEMA.

Module 2 : Emerging new International Economic Order

GATT, Uruguay Round, WTO, WTO Agreement, Dispute settlement Mechanism, Impact of WTO on Emerging Economies and India, Doha Round and implications of its failure- Emergence of Regional Free Trade agreements (FTA), Bilateral Investment Treaty (BIT), Double Taxation Avoidance Agreement (DTAA).

Module 3 :International Financial Institutions and International Debt Problem.

IMF, World Bank, Asian Development Bank (ADB) –New Development Bank (NDB), Asia Infrastructure Investment Bank (AIIB) and their role with special reference to India. South East Asian Crisis and Lessons for India, Global Economic Crisis, Global Financial Crisis of 2008, International Debt Problem – Emerging Global Financial Architecture.

Module 4: Role of Foreign Capital Flow

Factors determining Foreign Investment, Foreign Institutional Investment (FII), Qualified Foreign Investment (QFI), Foreign Portfolio Investment (FPI), Role of FDI in Economic Development- Factors influencing FDI inflows- Green Field and Brown field FDI in India, Foreign Investment and Role of MNCs in India.

References:

1. Robert J Carbaugh, International Economics, South-Western Cengage Learning, USA, 2017.
2. Paul R Krugman, Maurice Obstfeld and Melitz Mark, International Economics: Theory and Policy, Princeton University, USA, 2015.
3. Dennis R Appleyard, Alfred J Field, International Economics, McGraw-Hill, USA, 2013.
4. Robert J Carbaugh, International Economics(With Xtra! and Info Trac), South Western College Pub, 2003.
5. Kindleberger Charles P., International Economics,3rd edition, R. D. Irwin, Homewood, IL, 1963.
6. Bo Sodersten and Geoffrey Reed, International Economics, 3rd Edition, Palgrave Macmillan; (May 15, 1994)

AC / /2018
Item no.

UNIVERSITY OF MUMBAI



Revised Syllabus for Sem V and Sem VI

Program: B. A.

Course: History and Archaeology

(Choice Based Credit System with effect from the
Academic year 2018-2019)

Revised Syllabus

Semester V and Semester VI
Programme: B.A.
Course: History and Archaeology

(Choice Based Credit System with effect from the Academic year 2018-2019)

As per University rules and guidelines for Faculty of Humanities

Faculty of Humanities
TYBA
(Choice Based Credit System, CBCS)
Semester V and Semester VI
Guidelines
With Effect From 2018-2019

Syllabus Structure:

1. In TYBA (CBCS) in Sem V and Sem VI, the Core Courses will be Core Courses IV, V, VII and VIII.
2. The Elective Courses will be Elective Courses VI and IX which will be partially Project Based Courses. The Boards of Studies may offer choices in the Elective Courses VI and IX.
3. In Sem V and Sem VI, each Course namely Core Courses IV, V, VII and VIII and Elective Courses VI and IX will carry 4 Credits per Course per Semester.

Evaluation:

1. **Core Courses:** The Core Courses IV, V, VII and VIII will be theory based Core Courses. The University of Mumbai will conduct the Sem V and Sem VI examinations of 100 marks per Core Course. In Sem V and Sem VI for all the above Core Courses, the student will have to secure a minimum of 40% marks in aggregate per Core Course.
2. **Elective Courses:** The Elective Courses VI and IX will be Electives and Choices of Electives may be offered by the various Board of Studies. The University of Mumbai will conduct the Sem V and Sem VI examination for Elective Courses VI and IX of 80 marks per Elective Course. The Elective Courses namely Elective Courses VI and IX will be partially Project Based Courses. In Sem V and VI, for Elective Course VI and for Elective Course IX, the Colleges will conduct the evaluation of a Project of 20 marks

each and will send the marks to the University of Mumbai as per University of Mumbai guidelines.

3. The total marks of the Elective Course VI and Elective Course IX will be 100 marks each that is 80 marks for Theory Examination conducted by University of Mumbai and 20 marks for Project evaluated by the concerned college Faculty in the subject.
4. In Sem V and Sem VI, the student will have to submit a Project for Elective Course VI and Elective Course IX in the College before appearing for the University Examination. The last date of submission of the Project will be officially declared by the College.
5. In Sem V and Sem VI, the Project topic will be based on the Syllabus of the respective Elective Courses that is Elective Course VI and Elective Course IX. The students will be given the choice of choosing the topic of the project in consultation with the Faculty Member teaching the respective Elective Course. The list of students along with the topics chosen by the students will be displayed by the College in the beginning of the Semester.
6. The Project work will be carried out by the student with the guidance of the concerned Faculty Member who will be allotted to the student as the Guide for the Project.
7. In Sem V and Sem VI, for Elective Courses VI and IX, the student will have to secure a minimum of 40% marks in aggregate and a minimum of 40% in each component of assessment i.e. 08 out of 20 marks in Internal Evaluation of Project in Elective Course VI and Elective Course IX and 32 out of 80 marks in University Examination of Elective Course VI and Elective Course IX.

Note: All other rules regarding Standard of Passing, ATKT, etc., will be as per those decided by the Faculty of Humanities passed by the Academic Council from time to time.

Faculty of Humanities
TYBA
(Choice Based Credit System, CBCS)
Semester V and Semester VI
Question Paper Pattern for T.Y.B.A (CBCS)
for Core Courses IV, V, VII and VIII
As per University rules and guidelines
With Effect From 2018-2019

(Time: 3 Hours)

Note: 1. Attempt **all** questions

(Total = 100 marks)

2. All questions carry **equal** marks

Q.1 (Based on Module I)

(20 marks)

a.

or

b.

Q.2 (Based on Module II)

(20 marks)

a.

or

b.

Q.3 (Based on Module III)

(20 marks)

a.

or

b.

Q.4 (Based on Module IV)

(20 marks)

a.

or

b.

Q.5 Attempt **any two** short notes. (Based on Module I, II, III and IV)

(20 marks)

a.

b.

c.

d.

[The Question paper Pattern for the Revised Syallbus for Semester V and Semester VI, Programme: B.A; Course: History and Archaeology (Choice Based Credit System with effect from the Academic year 2018-2019) will be as per University rules and guidelines for the Faculty of Humanaities].

Faculty of Humanities
TYBA
(Choice Based Credit System, CBCS)
Semester V and Semester VI
Question Paper Pattern for T.Y.B.A (CBCS)
for Elective Courses VI and IX
As per University rules and guidelines
With Effect From 2018-2019

(Time: 2 & 1/2 Hours)

Note: 1. Attempt all questions

(Total = 80 marks)

2. All questions carry equal marks

Q.1 (Based on Module I)

(20 marks)

a.

or

b.

Q.2 (Based on Module II)

(20 marks)

a.

or

b.

Q.3 (Based on Module III)

(20 marks)

a.

or

b.

Q.4 (Based on Module IV)

(20 marks)

a.

or

b.

[The Question paper Pattern for the Revised Syallbus for Semester V and Semester VI, Programme: B.A; Course: History and Archaeology (Choice Based Credit System with effect from the Academic year 2018-2019) will be as per University rules and guidelines for the Faculty of Humanaities].

SYLLABUS

SEMESTER – V		
Course	Title of the Course	Credits
Core Course IV	History of Medieval India (1000 CE – 1526 CE)	4 Credits
Core Course V	History of Modern Maharashtra (1818 CE-1960 CE)	4 Credits
Elective Course VI. A (With Project)	Introduction to Archaeology	4 Credits
Elective Course VI B (With Project)	Media and Communication	4 Credits
Core Course VII	History of the Marathas (1630 CE -1707 CE)	4 Credits
Core Course VIII	History of Contemporary World (1945 CE -2000 CE)	4 Credits
Elective Course IX A (With Project)	Research Methodology and Sources of History	4 Credits
Elective Course IX B (With Project)	Introduction to Heritage Tourism	4 Credits
		Total 24 Credits

SEMESTER – VI

Course	Title of the Course	Credits
Core Course IV	History of Medieval India (1526 CE – 1707 CE)	4 Credits
Core Course V	History of Contemporary India (1947 CE- 2000 CE)	4 Credits
Elective Course VI A (With Project)	Introduction to Museology and Archival Science	4 Credits
Elective Course VI B (With Project)	Media and Communication	4 Credits
Core Course VII	History of the Marathas (1707 CE - 1818 CE)	4 Credits
Core Course VIII	History of Asia (1945 CE -2000 CE)	4 Credits
Elective Course IX A (With Project)	Research Methodology and Sources of History	4 Credits
Elective Course IX B (With Project)	Heritage Tourism in Maharashtra	4 Credits
		Total 24 Credits

T.Y.B.A. History

SEMESTER -V

Core Course IV- History of Medieval India (1000 CE-1526CE)

Objectives:

1. To acquaint the students with the history of early Medieval India that laid the foundation of the Sultanate in India.
2. To study the contribution of Vijayanagar and Bahamani kingdoms to Medieval Indian History.
3. To examine the administrative, socio-economic and cultural aspects of Medieval India.

Module I: Foundation, Expansion and Decline of Delhi Sultanate

- (a) Socio-economic and political conditions on the eve of the Turkish Invasion
- (b) Rise and Decline of Slave dynasty, Khilji Dynasty
- (c) Tughlaq, Sayyid and Lodi Dynasty

Module II: Administrative Structure of the Sultanate

- (a) Central Administration and Iqta system
- (b) Administrative and Military Reforms of Ala-ud-din Khilji
- (c) Reforms of Firozshah Tughlaq and Mohammed bin Tughlaq

Module III: Emergence of Vijaynagar and Bahamani Kingdoms

- (a) Rise, Growth and Decline of Vijaynagar and Bahamani Kingdoms
- (b) Administration, Socio-Economic and Cultural conditions of Vijayanagar Empire
- (c) Administration, Socio-Economic and Cultural conditions of Bahamani Kingdom

Module IV: Society, Economy, Religion and Culture of Delhi Sultanate

- (a) Socio-economic and religious life
- (b) Education and Literature
- (c) Art and Architecture

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SEMESTER -V

Core Course V- History of Modern Maharashtra (1818 CE-1960 CE)

Objectives:

1. To acquaint students with regional history.
2. To understand political and socio-economic developments during the 19th and 20th centuries.
3. To create understanding of the movement that led to the formation of Maharashtra.

Module I: Beginning of the British Rule

- (a) Socio-Economic conditions of Maharashtra in 19th Century
- (b) Administration and Judiciary
- (c) Tribal and Peasant Uprisings

Module II: Socio- Economic Awakening

- (a) Mahatma Jotirao Phule - Satya Shodhak Samaj and Universal Humanism
- (b) Prarthana Samaj
- (c) Contribution of thinkers of Maharashtra to Economic Nationalism

Module III: Political Developments in Maharashtra (1885-1960)

- (a) Moderates, Extremists and Revolutionaries in Maharashtra
- (b) Response to Gandhian Movements in Maharashtra
- (c) Samyukta Maharashtra Movement

Module IV: Emergence of New Forces

- (a) Contribution of Reformers in Education
- (b) Contribution of Reformers towards Emancipation of Women
- (c) Contribution of Reformers towards Upliftment of Depressed Classes: V. R. Shinde, Rajarshi Shahu Maharaj and Dr. B.R. Ambedkar

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SEMESTER -V

Core Course VI A – Introduction to Archaeology

Objectives:

1. To understand the basic facets of Archaeology.
2. To evaluate the importance of Epigraphy.
3. To study the importance of Numismatics as an important source of history.

Module I: Aims and Methods of Archaeology

- (a) Definition, Aims and Development of Archaeology in India
- (b) Archaeology and History; Archaeology and Other Sciences
- (c) Field Archaeology: Methods of Exploration, Excavation and Dating Antiquities; Significance of Archaeology

Module II: Pre-Historic, Proto-Historic and Early Historical Periods

- (a) Palaeolithic and Mesolithic Periods
- (b) Neolithic and Chalcolithic Periods
- (c) Megalithic and Early Historical Periods

Module III: Epigraphy

- (a) Definition and History of Indian Epigraphy
- (b) Types of Inscriptions and their significance
- (c) Evolution of Brahmi and Kharosthi Scripts; Edicts of Ashoka

Module IV: Numismatics

- (a) Definition and History of Indian Numismatics
- (b) Ancient Indian Coinage: Punch-Marked, Satavahana, Western Kshatrapas, Kushana and Gupta Coins
- (c) Contribution of Numismatics to Indian History

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SEMESTER -V

Elective Course: Paper VI B –Media and Communication

Objectives:

1. To inform students about the Fundamentals of Communication.
2. To introduce students to Oral Traditions in Communication and the field of Journalism.
3. To familiarize students with the various types of Audio-Visual Media.

Module I: Fundamentals of Communication

- (a) Definition, Evolution and Significance of Communication
- (b) Process, Types, Importance and Need of Communication
- (c) Barriers to Communication

Module II: Oral Traditions in Communication

- (a) Folk Theatre – Importance, Marathi Theatre
- (b) Major Dance Forms – Folk and Classical
- (c) Folk Expression – Songs, Stories and Puppetry

Module III: Journalism

- (a) Definition, Evolution and Types of Journalism
- (b) Role and Functions of Reporters, Sub-Editor and Editor
- (c) Freedom of Press – Importance, Ethics and Current Trends

Module IV: Audio-Visual Media

- (a) Photography – Types, Scope and Limitations
- (b) Cinema – Growth, Development and Technical Aspects
- (c) Types of Films and Global Indian Cinema

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T.Y.B.A. History

SEMESTER -V

Core Course VII- History of the Marathas (1630 CE – 1707CE)

Objectives:

1. To introduce the students to the regional history of Maharashtra.
2. To familiarize students with the literary sources of the history of the Marathas.
3. To help students to understand the forces leading to the establishment of Maratha power under Chhatrapati Shivaji Maharaj.

Module I: Introduction to Maratha History

- (a) Marathi, Persian and European Sources
- (b) Deccan in the 17th century – Geo-Political and Economic conditions
- (c) Socio-Cultural conditions; Maharashtra Dharma

Module II: Establishment of Swarajya

- (a) Shivaji's relations with Bijapur
- (b) Shivaji's relations with the Mughals
- (c) Shivaji's relations with the Europeans

Module III: Period of Consolidation and Crisis

- (a) Coronation and its significance; Shivaji's Karnatak Campaign
- (b) Sambhaji, Rajaram and Tarabai
- (c) Civil War : Tarabai and Shahu

Module IV: Administration during the Royal Period

- (a) Civil Administration
- (b) Revenue and Judicial Administration
- (c) Military Administration

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SEMESTER -V

Core Course VIII: History of Contemporary World (1945 CE – 2000 CE)

Objectives:

1. To trace some of the major events of post-World War II period.
2. To understand the significance of these events.
3. To comprehend the ways in which events of the latter half of the twentieth century have influenced the present.

Module I: Cold War (1945-1985)

- (a) Meaning, Causes of Cold War and Security Pacts
- (b) Conflicts in Cold War: Germany, Korea and Cuba
- (c) Economic Revival of Western Europe; Soviet Union's Relations with Eastern Europe

Module II: Europe, U.S.S.R and U.S.A. (1985-2000)

- (a) Disintegration of U.S.S.R
- (b) Re-drawing of political borders of Germany, Yugoslavia and Czechoslovakia;
Emergence of the European Union (EU) in Western Europe
- (c) U.S.A as the dominant world power

Module III: Movements for Equal Rights and Challenging the Bipolar World (1945-2000)

- (a) Campaigns within and outside South Africa against Apartheid
- (b) Civil Rights Movement in U.S.A
- (c) Non-Aligned Movement

Module IV: Major Trends

- (a) Globalisation
- (b) Sustainable Development
- (c) Women's Liberation Movement

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SEMESTER -V

Elective Course IX A - Research Methodology and Sources of History

Objectives:

1. To teach students basics of research methodology in history with a view to promote historical research.
2. To understand the various kinds of sources of history and its interpretation.
3. To acquaint students with the new trends and approaches in history writing.

Module I: History: Definition and Scope

- (a) History: Meaning, Scope and Nature
- (b) Importance of History
- (c) History and Auxiliary Sciences

Module II: Sources of History

- (a) Sources: Nature and Types
- (b) Authenticity and Credibility of Sources
- (c) Importance of Archival Sources

Module III: Research Methods in History

- (a) Methods of Data Collection
- (b) Interpretation and Generalisation of Sources
- (c) Footnotes and Bibliography

Module IV: Sources for Writing Indian History

- (a) Sources for Ancient Indian History
- (b) Sources for Medieval Indian and Maratha History
- (c) Sources for Modern and Contemporary Indian History

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SEMESTER -V

Elective Course IX B - Introduction to Heritage Tourism

Objectives:

1. To develop an understanding of Heritage Tourism amongst students.
2. To introduce the students to new trends in Heritage Tourism.
3. To prepare the students for careers in Tourism industry.

Module I -Understanding Heritage Tourism

- (a) Meaning and Historical Perspective of Tourism
- (b) Concept, Scope and Significance of Heritage Tourism
- (c) National Policies to promote Heritage Tourism and World Heritage Sites in India

Module II - Forms of Heritage Tourism in India

- (a) Natural: Beaches and Sanctuaries
- (b) Built Heritage: Forts, Monuments and Public Buildings
- (c) Cultural: Pilgrimage Sites, Fairs and Festivals

Module III - New Trends in Heritage Tourism

- (a) Entertainment: Performing Arts and Cinema
- (b) Eco-tourism and Adventure Tourism
- (c) Public Private Partnership in Heritage Tourism

Module IV - Heritage Management

- (a) Heritage Legislation
- (b) Role of Tourism Industry
- (c) Role of Museums and Heritage Conservation Societies

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SEMESTER -VI

Core Course: IV- History of Medieval India (1526 CE-1707CE)

Objectives:

1. To acquaint the students with the history of India since the emergence of the Mughal rule.
2. To understand administration of the Mughal Empire.
3. To study the rise of the Maratha Power.

Module I: Foundation, Expansion and Decline of the Mughal Rule

- (a) India on the eve of Mughal Rule; Invasion of Babur
- (b) Humayun, Shershah and Akbar
- (c) Jahangir, Shahjahan and Aurangzeb

Module II: Administrative Structure of the Mughals

- (a) Central and Provincial Administration
- (b) Mansabdari System
- (c) Revenue and Judicial system

Module III: Rise of the Maratha Power

- (a) Shivaji and Foundation of Swarajya
- (b) Administration of Shivaji
- (c) Sambhaji, Rajaram and Tarabai

Module IV: Society and Economy, Religion and Culture of the Mughal Rule

- (a) Society and Economy
- (b) Religion, Education and Literature
- (c) Art and Architecture

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SEMESTER -VI

Core Course V – History of Contemporary India (1947 CE- 2000 CE)

Objectives:

1. To understand the process of making the Constitution and the Integration and Reorganization of Indian States.
2. To acquaint the students with the political developments in India after Independence.
3. To comprehend the socio-economic changes and progress in science and technology in India.

Module I: The Nehru Era (1947 CE – 1964 CE)

- (a) Features of Indian Constitution
- (b) Integration and Reorganization of Indian States
- (c) Socio- Economic Reforms and Foreign Policy

Module II: Political, Social and Economic Developments (1964 CE – 1984 CE)

- (a) Political Developments after Nehru Era; Green Revolution.
- (b) Abolition of Privy Purses and Titles; Nationalization of Banks; The Emergency
- (c) Janata Government; Return of Congress to power ; Foreign Policy

Module III: Political, Social and Economic Developments (1984 CE – 2000 CE)

- (a) Political Developments
- (b) Relations with Neighboring Countries
- (c) Liberalization, Privatization and Globalization

Module IV: Emerging Trends

- (a) Communalism and Separatist Movements
- (b) Women Empowerment and Policy of Reservation
- (c) Science, Technology and Education

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SEMESTER -VI

Elective Course VI A - Introduction to Museology and Archival Science

Objectives:

1. To inform the students about the role of Museums in the preservation of Heritage.
2. To understand the importance of Archival Science in the study of History.
3. To encourage students to pursue careers in various Museums and Archives in India and abroad.

Module I: Museology

- (a) Definition of Museology, Museum Movement in India
- (b) Role of the Curator
- (c) Types of Museums

Module II: Museums

- (a) Methods of Collection and Conservation of Objects in Museums
- (b) Preservation Techniques and Types of Exhibitions
- (c) Changing Role of Museums: In-house and Out-reach activities of Museums

Module III: Archival Science

- (a) Meaning, Scope, Objectives and Classes of Archives
- (b) Importance of Archives: Value of Records as Sources of History
- (c) Classification of Records

Module IV: Management of Archives

- (a) Appraisal and Retention of Records
- (b) Conservation and Preservation of Records
- (c) Digital Archives

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SEMESTER -VI

Elective Course VI B - Media and Communication

Objectives:

1. To acquaint students with the various types of Media and Communication.
2. To inform students of the developments in Information Technology.
3. To understand the impact of Media on Society.

Module I: Radio and Television

- (a) Radio - History and Current Trends
- (b) Television - History and Current Trends
- (c) Careers in Radio and Television

Module II: Advertising and Public Relations

- (a) Definition, Functions and Responsibilities of Public Relations Officer
- (b) Advertising – Definitions and Types
- (c) Careers and Opportunities in Advertising and Public Relations

Module III: Revolution in Information Technology

- (a) Social Media
- (b) Electronic Gadgets – Uses and Misuses
- (c) Cyber Crimes and Cyber Laws

Module IV: Impact of Media

- (a) Impact on Society - Children, Women, Youth
- (b) Challenges – Privatization, Global Competition, Moral Issues, Public Censorship
- (c) Media and Global Issues – Human Rights, Environment

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SEMESTER -VI

Core Course VII: History of the Marathas (1707 CE – 1818 CE)

Objectives:

1. To enable the students to understand the processes that led to the expansion of the Maratha Power.
2. To appreciate the contribution of the Marathas in the national politics of the 18th century.
3. To develop an understanding of the society and culture in Maharashtra in the 18th century.

Module I: Expansion of the Maratha Power

- (a) Rise of the Peshwas: Balaji Vishwanath
- (b) Peshwa Bajirao I
- (c) Maratha Confederacy

Module II: Consolidation of the Maratha Power

- (a) Peshwa Balaji Bajirao (Nanasaheb)
- (b) Third Battle of Panipat: causes and consequences
- (c) Defeat of the Marathas and significance of the Third Battle of Panipat

Module III: Post Panipat Revival and Downfall

- (a) Peshwa Madhavrao I
- (b) Barbhai Council
- (c) Downfall of the Maratha Power

Module IV: Administrative and Socio-Cultural Developments

- (a) Peshwa Administration: Civil, Revenue and Military
- (b) Society under the Peshwas – Religion, Caste and Position of Women
- (c) Cultural Developments: Literature, Art and Architecture

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T.Y.B.A. History

SEMESTER -VI

Core Course VIII - History of Asia (1945 CE-2000 CE)

Objectives:

- 1.To acquaint the students with some of the major changes that occurred in Asia after World War II.
- 2.To understand the ways in which Asian nations resisted and defied the control of the West.
- 3.To comprehend some of the trends that emerged in Asia.

Module I: Transformation of China

- (a) Domestic Policy in People's Republic of China under Mao Zedong
- (b) Economic Progress in China under Deng Xiaoping
- (c) Foreign Policy of China with USSR

Module II: Reconstruction of Japan

- (a) American Occupation of Japan
- (b) Economic Miracle in Japan
- (c) Foreign Policy of Japan with USA

Module III: South East Asia

- (a) Cold War and Vietnam
- (b) Guided Democracy in Indonesia
- (c) Association of South East Asian Nations (ASEAN)

Module IV: Conflicts in West Asia

- (a) Arab- Israel Conflict (1948-2000)
- (b) Iranian Revolution of 1979
- (c) Oil Politics and OPEC

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SEMESTER -VI

Elective Course IX A - Research Methodology and Sources of History

Objectives:

1. To teach students basics of research methodology in history with a view to promote historical research.
2. To understand the various kinds of sources of history and its interpretation.
3. To acquaint students with the new trends and approaches in history writing.

Madule I: Historical Research: Methods and Presentation

- (a) Steps in Historical Research
- (b) Methods of Critical Enquiry
- (c) Presentation of Historical Research

Madule II: New Trends in History

- (a) Local History
- (b) Oral History
- (c) Digital and E-Sources

Madule III: Approaches to History

- (a) Subaltern
- (b) Feminist
- (c) Post-Modern

Madule IV: Indian Historiography

- (a) Imperialist
- (b) Nationalist
- (c) Marxist

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SEMESTER -VI

Elective Course IX B - Heritage Tourism in Maharashtra

Objectives:

1. To introduce students to the Cultural Heritage of Maharashtra
2. To understand various resources of Heritage Tourism in Maharashtra
3. To acquaint the students with the relevance and scope of Heritage Tourism

Module I: Understanding Heritage Tourism of Maharashtra

- (a) Government Policies and Role of Government Agencies
- (b) Heritage Sites and Precincts
- (c) Careers in Heritage Tourism

Module II: Natural Heritage

- (a) Biodiversity of Sahyadri Range
- (b) National Parks
- (c) Beaches and Hill Stations

Module III: Architectural Heritage

- (a) Caves
- (b) Forts
- (c) Monuments and Public Buildings

Module IV: Cultural Heritage

- (a) Pilgrimage Sites
- (b) Fairs and Festivals
- (c) Folk and Tribal Culture

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University of Mumbai



**Revised Syllabus
and
Question Paper Pattern
of Courses
of
Bachelor of Management Studies
(BMS) Programme at
Third Year
Semester V and VI
Under Choice Based Credit, Grading and
Semester System**

*(To be implemented from Academic Year- 2018-2019)
Board of Studies-in-Business Management, University of Mumbai*

Bachelor of Management Studies (BMS) Programme

Under Choice Based Credit, Grading and Semester System

TYBMS

(To be implemented from Academic Year- 2018-2019)

No. of Courses	Semester V	Credits	No. of Courses	Semester VI	Credits
1	Elective Courses (EC)		1	Elective Courses (EC)	
1,2,3 & 4	*Any four courses from the following list of the courses	12	1,2,3 & 4	**Any four courses from the following list of the courses	12
2	Core Course (CC)		2	Core Course (CC)	
5	Logistics & Supply Chain Management	04	5	Operation Research	04
3	Ability Enhancement Course (AEC)		3	Ability Enhancement Course (AEC)	
6	Corporate Communication & Public Relations	04	6	Project Work	04
Total Credits		20	Total Credits		20

✓ **Note:** Project work is considered as a special course involving application of knowledge in solving/analysing/exploring a real life situation/ difficult problem. Project work would be of 04 credits. A project work may be undertaken in any area of Elective Courses/ study area selected

*List of group of Elective Courses(EC) for Semester V (Any Four)		** List of group of Elective Courses(EC) for Semester VI (Any Four)	
Group A: Finance Electives			
1	Investment Analysis & Portfolio Management	1	International Finance
2	Commodity & Derivatives Market	2	Innovative Financial Services
3	Wealth Management	3	Project Management
4	Financial Accounting	4	Strategic Financial Management
5	Risk Management	5	Financing Rural Development
6	Direct Taxes	6	Indirect Taxes
Group B: Marketing Electives			
1	Services Marketing	1	Brand Management
2	E-Commerce & Digital Marketing	2	Retail Management
3	Sales & Distribution Management	3	International Marketing
4	Customer Relationship Management	4	Media Planning & Management
5	Industrial Marketing	5	Sports Marketing
6	Strategic Marketing Management	6	Marketing of Non Profit Organisation
Group C: Human Resource Electives			
1	Finance for HR Professionals & Compensation Management	1	HRM in Global Perspective
2	Strategic Human Resource Management & HR Policies	2	Organisational Development
3	Performance Management & Career Planning	3	HRM in Service Sector Management
4	Industrial Relations	4	Workforce Diversity
5	Talent & Competency Management	5	Human Resource Accounting & Audit
6	Stress Management	6	Indian Ethos in Management
Note: Group selected in Semester III will continue in Semester V & Semester VI			

Bachelor of Management Studies (BMS) Programme

Under Choice Based Credit, Grading and Semester System

Course Structure

(To be implemented from Academic Year- 2018-2019)

Semester V

No. of Courses	Semester V	Credits
1	Elective Courses (EC)	
1,2,3 & 4	*Any four courses from the following list of the courses	12
2	Core Course (CC)	
5	Logistics & Supply Chain Management	04
3	Ability Enhancement Course (AEC)	
6	Corporate Communication & Public Relations	04
Total Credits		20

**List of group of Elective Courses(EC)for Semester V (Any Four)*

Group A: Finance Electives	
1	Investment Analysis & Portfolio Management
2	Commodity & Derivatives Market
3	Wealth Management
4	Financial Accounting
5	Risk Management
6	Direct Taxes
Group B: Marketing Electives	
1	Services Marketing
2	E-Commerce & Digital Marketing
3	Sales & Distribution Management
4	Customer Relationship Management
5	Industrial Marketing
6	Strategic Marketing Management
Group C: Human Resource Electives	
1	Finance for HR Professionals & Compensation Management
2	Strategic Human Resource Management & HR Policies
3	Performance Management & Career Planning
4	Industrial Relations
5	Talent & Competency Management
6	Stress Management

**Revised Syllabus of Courses of Bachelor of Management Studies
(BMS) Programme at Semester V
with effect from the Academic Year 2018-2019**

**Elective Courses (EC)
Group A: Finance Electives**

1. Investment Analysis and Portfolio Management

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Investment Environment	15
2	Risk - Return Relationship	15
3	Portfolio Management and Security Analysis	15
4	Theories, Capital Asset Pricing Model and Portfolio Performance Measurement	15
	Total	60

Objectives

SN	Objectives
1	To acquaint the learners with various concepts of finance
2	To understand the terms which are often confronted while reading newspaper, magazines etc for better correlation with the practical world
3	To understand various models and techniques of security and portfolio analysis

SN	Modules/ Units
1	Introduction to Investment Environment
	<p>a) Introduction to Investment Environment</p> <ul style="list-style-type: none"> • Introduction, Investment Process, Criteria for Investment, Types of Investors, Investment V/s Speculation V/s Gambling, Investment Avenues, Factors Influencing Selection of Investment Alternatives <p>b) Capital Market in India</p> <ul style="list-style-type: none"> • Introduction, Concepts of Investment Banks its Role and Functions, Stock Market Index, The NASDAQ, SDL, NSDL, Benefits of Depository Settlement, Online Share Trading and its Advantages, Concepts of Small cap, Large cap, Midcap and Penny stocks
2	Risk - Return Relationship
	<p>a) Meaning, Types of Risk- Systematic and Unsystematic risk, Measurement of Beta, Standard Deviation, Variance, Reduction of Risk through Diversification. Practical Problems on Calculation of Standard Deviation, Variance and Beta.</p>
3	Portfolio Management and Security Analysis
	<p>a) Portfolio Management:</p> <ul style="list-style-type: none"> • Meaning and Concept, Portfolio Management Process, Objectives, Basic Principles, Factors affecting Investment Decisions in Portfolio Management, Portfolio Strategy Mix. <p>b) Security Analysis:</p> <ul style="list-style-type: none"> • Fundamental Analysis, Economic Analysis, Industry Analysis, Company Analysis, Technical Analysis - Basic Principles of Technical Analysis., Uses of Charts: Line Chart, Bar Chart, Candlestick Chart, Mathematical Indicators: Moving Averages, Oscillators.
4	Theories, Capital Asset Pricing Model and Portfolio Performance Measurement
	<p>a) Theories:</p> <ul style="list-style-type: none"> • Dow Jones Theory, Elloit Wave Theory, Efficient Market Theory <p>b) Capital Asset Pricing Model:</p> <ul style="list-style-type: none"> • Assumptions of CAPM, CAPM Equation, Capital Market Line, Security Market Line <p>c) Portfolio Performance Measurement:</p> <ul style="list-style-type: none"> • Meaning of Portfolio Evaluation, Sharpe's Ratio (Basic Problems), Treynor's Ratio (Basic Problems), Jensen's Differential Returns (Basic Problems)

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**Elective Courses (EC)
Group A: Finance Electives**

2. Commodity and Derivatives Market

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Commodities Market and Derivatives Market	15
2	Futures and Hedging	15
3	Options and Option Pricing Models	15
4	Trading, Clearing & Settlement In Derivatives Market and Types of Risk	15
	Total	60

Objectives

SN	Objectives
1	To understand the concepts related to Commodities and Derivatives market
2	To study the various aspects related to options and futures
3	To acquaint learners with the trading, clearing and settlement mechanism in derivatives market.

SN	Modules/ Units
1	Introduction to Commodities Market and Derivatives Market
	<p>a) Introduction to Commodities Market :</p> <ul style="list-style-type: none"> • Meaning, History & Origin, Types of Commodities Traded, Structure of Commodities Market in India, Participants in Commodities Market, Trading in Commodities in India(Cash & Derivative Segment), Commodity Exchanges in India & Abroad, Reasons for Investing in Commodities <p>b) Introduction to Derivatives Market:</p> <ul style="list-style-type: none"> • Meaning, History & Origin, Elements of a Derivative Contract, Factors Driving Growth of Derivatives Market, Types of Derivatives, Types of Underlying Assets, Participants in Derivatives Market, Advantages & Disadvantages of Trading in Derivatives Market, Current Volumes of Derivative Trade in India, Difference between Forwards & Futures.
2	Futures and Hedging
	<p>a) Futures:</p> <ul style="list-style-type: none"> • Futures Contract Specification, Terminologies, Concept of Convergence, Relationship between Futures Price & Expected Spot Price, Basis & Basis Risk, Pricing of Futures Contract, Cost of Carry Model <p>b) Hedging:</p> <ul style="list-style-type: none"> • Speculation & Arbitrage using Futures, Long Hedge – Short Hedge, Cash & Carry Arbitrage, Reverse Cash & Carry Arbitrage, Payoff Charts & Diagrams for Futures Contract, Perfect & Imperfect Hedge
3	Options and Option Pricing Models
	<p>a) Options:</p> <ul style="list-style-type: none"> • Options Contract Specifications, Terminologies, Call Option, Put Option, Difference between Futures & Options, Trading of Options, Valuation of Options Contract, Factors affecting Option Premium, Payoff Charts & Diagrams for Options Contract, Basic Understanding of Option Strategies <p>b) Options Pricing Models:</p> <ul style="list-style-type: none"> • Binomial Option Pricing Model, Black - Scholes Option Pricing Model
4	Trading, Clearing & Settlement In Derivatives Market and Types of Risk
	<p>a) Trading, Clearing & Settlement In Derivatives Market:</p> <ul style="list-style-type: none"> • Meaning and Concept, SEBI Guidelines, Trading Mechanism – Types of Orders, Clearing Mechanism – NSCCL – its Objectives & Functions, Settlement Mechanism – Types of Settlement <p>b) Types of Risk:</p> <ul style="list-style-type: none"> • Value at Risk, Methods of calculating VaR, Risk Management Measures , Types of Margins, SPAN Margin

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Elective Courses (EC)

Group A: Finance Electives

3. Wealth Management

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction	15
2	Insurance Planning and Investment Planning	15
3	Financial Mathematics/ Tax and Estate Planning	15
4	Retirement Planning/ Income Streams & Tax Savings Schemes	15
	Total	60

Objectives

SN	Objectives
1	To provide an overview of various aspects related to wealth management
2	To study the relevance and importance of Insurance in wealth management
3	To acquaint the learners with issues related to taxation in wealth management
4	To understand various components of retirement planning

SN	Modules/ Units
1	Introduction
	<p>a) Introduction To Wealth Management:</p> <ul style="list-style-type: none"> • Meaning of WM, Scope of WM, Components of WM, Process of WM, WM Needs & Expectation of Clients, Code of Ethics for Wealth Manager <p>b) Personal Financial Statement Analysis:</p> <ul style="list-style-type: none"> • Financial Literacy, Financial Goals and Planning, Cash Flow Analysis, Building Financial Plans, Life Cycle Management. <p>c) Economic Environment Analysis:</p> <ul style="list-style-type: none"> • Interest Rate, Yield Curves, Real Return, Key Indicators-Leading, Lagging, Concurrent
2	Insurance Planning and Investment Planning
	<p>a) Insurance Planning:</p> <ul style="list-style-type: none"> • Meaning, Basic Principles of Insurance, Functions and Characteristics of Insurance, Rights and Responsibilities of Insurer and Insured, Types of life Insurance Policies, Types of General Insurance Policies, Health Insurance – Mediclaim – Calculation of Human Life Value - Belth Method/CPT <p>b) Investment Planning:</p> <ul style="list-style-type: none"> • Types of Investment Risk, Risk Profiling of Investors & Asset Allocation (Life Cycle Model), Asset Allocation Strategies(Strategic, Tactical, Life-Cycle based), Goal-based Financial Planning, Active & Passive Investment Strategies
3	Financial Mathematics/ Tax and Estate Planning
	<p>a) Financial Mathematics:</p> <ul style="list-style-type: none"> • Calculation of Returns (CAGR ,Post-tax Returns etc.), Total Assets, Net Worth Calculations, Financial Ratios <p>b) Tax and Estate Planning:</p> <ul style="list-style-type: none"> • Tax Planning Concepts, Assessment Year, Financial Year, Income Tax Slabs, TDS, Advance Tax, LTCG, STCG, Carry Forward & Set-off, Estate Planning Concepts –Types of Will – Requirements of a Valid Will– Trust – Deductions - Exemptions
4	Retirement Planning/ Income Streams & Tax Savings Schemes
	<p>a) Retirement Planning:</p> <ul style="list-style-type: none"> • Understanding of different Salary Components, Introduction to Retirement Planning, Purpose & Need, Life Cycle Planning, Financial Objectives in Retirement Planning, Wealth Creation (Factors and Principles), Retirement (Evaluation & Planning), Pre & Post-Retirement Strategies - Tax Treatment <p>b) Income Streams & Tax Savings Schemes:</p> <ul style="list-style-type: none"> • Pension Schemes, Annuities- Types of Annuities, Various Income Tax Savings Schemes

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Elective Courses (EC)

Group A: Finance Electives

4. Financial Accounting

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Preparation of Final Accounts of Companies	15
2	Underwriting of Shares & Debentures	12
3	Accounting of Transactions of Foreign Currency	15
4	Investment Accounting (w.r.t. Accounting Standard- 13)	10
5	Ethical Behaviour and Implications for Accountants	08
Total		60

Objectives

SN	Objectives
01	To acquaint the learners in preparation of final accounts of companies
02	To study provisions relating to underwriting of shares and debentures
03	To study accounting of foreign currency and investment
04	To understand the need of ethical behaviour in accountancy

Sr. No.	Modules / Units
1	Preparation of Final Accounts of Companies
	Relevant provisions of Companies Act related to preparation of Final Accounts (excluding cash flow statement) Preparation of financial statements as per Companies Act (excluding cash flow statement) AS 1 in relation to final accounts of companies (disclosure of accounting policies)
2	Underwriting of Shares & Debentures
	Introduction, Underwriting, Underwriting Commission Provision of Companies Act with respect to Payment of underwriting commission Underwriters, Sub-Underwriters, Brokers and Manager to Issues Types of underwriting, Abatement Clause Marked, Unmarked and Firm-underwriting applications, Liability of the underwriters in respect of underwriting contract- Practical problems
3	Accounting of Transactions of Foreign Currency
	In relation to purchase and sale of goods, services, assets, loan and credit transactions. Computation and treatment of exchange rate differences.
4	Investment Accounting (w.r.t. Accounting Standard- 13)
	For shares (variable income bearing securities) For Debentures/Preference shares (fixed income bearing securities) Accounting for transactions of purchase and sale of investments with ex and cum interest prices and finding cost of investment sold and carrying cost as per weighted average method (Excl. brokerage). Columnar format for investment account.
5	Ethical Behaviour and Implications for Accountants
	Introduction, Meaning of ethical behavior Financial Reports – link between law, corporate governance, corporate social responsibility and ethics. Need of ethical behavior in accounting profession . Implications of ethical values for the principles versus rule based approaches to accounting standards The principal based approach and ethics The accounting standard setting process and ethics The IFAC Code of Ethics for Professional Accountants Contents of Research Report in Ethical Practices Implications of unethical behavior for financial reports Company Codes of Ethics The increasing role of Whistle – Blowing

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Elective Courses (EC)

Group A: Finance Electives

5. Risk Management

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction, Risk Measurement and Control	15
2	Risk Avoidance and ERM	15
3	Risk Governance and Assurance	15
4	Risk Management in Insurance	15
Total		60

Objectives

SN	Objectives
1	To familiarize the student with the fundamental aspects of risk management and control
2	To give a comprehensive overview of risk governance and assurance with special reference to insurance sector
3	To introduce the basic concepts, functions, process, techniques of risk management

SN	Modules/ Units
1	Introduction, Risk Measurement and Control
	<p>a) Introduction, Risk Measurement and Control</p> <ul style="list-style-type: none"> • Definition, Risk Process, Risk Organization, Key Risks –Interest, Market, Credit, Currency, Liquidity, Legal, Operational • Risk Management V/s Risk Measurement – Managing Risk, Diversification, Investment Strategies and Introduction to Quantitative Risk Measurement and its Limitations • Principals of Risk - Alpha, Beta, R squared, Standard Deviation, Risk Exposure Analysis, Risk Immunization, Risk and Summary Measures –Simulation Method, Duration Analysis, Linear and other Statistical Techniques for Internal Control
2	Risk Avoidance and ERM
	<p>a) Risk Hedging Instruments and Mechanism:</p> <ul style="list-style-type: none"> • Forwards, Futures, Options, Swaps and Arbitrage Techniques, Risk Return Trade off, Markowitz Risk Return Model, Arbitrage Theory, System Audit Significance in Risk Mitigation <p>b) Enterprise Risk Management:</p> <ul style="list-style-type: none"> • Risk Management V/s Enterprise Risk Management, Integrated Enterprise Risk Management, ERM Framework, ERM Process, ERM Matrix, SWOT Analysis, Sample Risk Register
3	Risk Governance and Assurance
	<p>a) Risk Governance:</p> <ul style="list-style-type: none"> • Importance and Scope of Risk Governance, Risk and Three Lines of Defense, Risk Management and Corporate Governance <p>b) Risk Assurance:</p> <ul style="list-style-type: none"> • Purpose and Sources of Risk Assurance, Nature of Risk Assurance, Reports and Challenges of Risk <p>c) Risk and Stakeholders Expectations:</p> <ul style="list-style-type: none"> • Identifying the Range of Stakeholders and Responding to Stakeholders Expectations
4	Risk Management in Insurance
	<p>a) Insurance Industry:</p> <ul style="list-style-type: none"> • Global Perspective, Regulatory Framework in India, IRDA - Reforms, Powers, Functions and Duties. Role and Importance of Actuary <p>b) Players of Insurance Business:</p> <ul style="list-style-type: none"> • Life and Non- Life Insurance, Reinsurance, Bancassurance, Alternative Risk Trance, Insurance Securitization, Pricing of Insurance products, Expected Claim Costs, Risk Classification <p>c) Claim Management:</p> <ul style="list-style-type: none"> • General Guidelines, Life Insurance, Maturity, Death, Fire, Marine, Motor Insurance and Calculation of Discounted Expected Claim Cost and Fair Premium

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**Elective Courses (EC)
Group A: Finance Electives**

6. Direct Taxes

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Definitions and Residential Status	10
2	Heads of Income – I	15
3	Heads of Income - II	15
4	Deductions under Chapter VI A	10
5	Computation of Taxable Income of Individuals	10
Total		60

Objectives

SN	Objectives
01	To understand the provisions of determining residential status of individual
02	To study various heads of income
03	To study deductions from total income
04	To compute taxable income of Individuals

Sr. No.	Modules / Units
1	Definitions and Residential Status
	Basic Terms (S. 2,3,4) Assessee, Assessment, Assessment Year, Annual Value, Business, Capital Assets, Income, Previous Year, Person, Transfer. Determination of Residential Status of Individual, Scope of Total Income (S.5)
2	Heads of Income – I
	Salary (S.15-17) Income from House Property (S. 22-27) Profit & Gain from Business and Profession(S. 28, 30,31,32, 35, 35D,36,37, 40, 40A and 43B)
3	Heads of Income – II
	Capital Gain (S. 45, 48, 49, 50 and 54) Income from other sources (S.56- 59) Exclusions from Total Income (S.10) (Exclusions related to specified heads to be covered with relevant heads of income)
4	Deductions under Chapter VI A
	Deductions from Total Income S. 80C, 80CCC, 80D, 80DD, 80E, 80U, 80TTA
5	Computation of Taxable Income of Individuals.
	Computation of Total Income and Taxable Income of Individuals

Note: The Syllabus is restricted to study of particular sections, specifically mentioned rules and notifications only.

1. All modules / units include Computational problems / Case Study.
2. The Law In force on 1st April immediately preceding the commencement of Academic year will be applicable for ensuing Examinations.

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**Elective Courses (EC)
Group B: Marketing Electives**

1. Service Marketing

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction of Services Marketing	15
2	Key Elements of Services Marketing Mix	15
3	Managing Quality Aspects of Services Marketing	15
4	Marketing of Services	15
	Total	60

Objectives

SN	Objectives
1	To understand distinctive features of services and key elements in services marketing
2	To provide insight into ways to improve service quality and productivity
3	To understand marketing of different services in Indian context

SN	Modules/ Units
1	Introduction of Services Marketing
	<ul style="list-style-type: none"> • Services Marketing Concept, Distinctive Characteristics of Services, Services Marketing Triangle, Purchase Process for Services, Marketing Challenges of Services • Role of Services in Modern Economy, Services Marketing Environment • Goods vs Services Marketing, Goods Services Continuum • Consumer Behaviour, Positioning a Service in the Market Place • Variations in Customer Involvement, Impact of Service Recovery Efforts on Consumer Loyalty • Type of Contact: High Contact Services and Low Contact Services • Sensitivity to Customers' Reluctance to Change
2	Key Elements of Services Marketing Mix
	<ul style="list-style-type: none"> • The Service Product, Pricing Mix, Promotion & Communication Mix, Place/Distribution of Service, People, Physical Evidence, Process-Service Mapping-Flowcharting • Branding of Services – Problems and Solutions • Options for Service Delivery
3	Managing Quality Aspects of Services Marketing
	<ul style="list-style-type: none"> • Improving Service Quality and Productivity • Service Quality – GAP Model, Benchmarking, Measuring Service Quality -Zone of Tolerance and Improving Service Quality • The SERVQUAL Model • Defining Productivity – Improving Productivity • Demand and Capacity Alignment
4	Marketing of Services
	<ul style="list-style-type: none"> • International and Global Strategies in Services Marketing: Services in the Global Economy- Moving from Domestic to Transnational Marketing • Factors Favouring Transnational Strategy • Elements of Transnational Strategy • Recent Trends in Marketing Of Services in: Tourism, Hospitality, Healthcare, Banking, Insurance, Education, IT and Entertainment Industry • Ethics in Services Marketing: Meaning, Importance, Unethical Practices in Service Sector

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**Elective Courses (EC)
Group B: Marketing Electives**

2. E-Commerce and Digital Marketing

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to E-commerce	15
2	E-Business & Applications	15
3	Payment, Security, Privacy & Legal Issues in E-Commerce	15
4	Digital Marketing	15
Total		60

Objectives

SN	Objectives
1	To understand increasing significance of E-Commerce and its applications in Business and Various Sectors
2	To provide an insight on Digital Marketing activities on various Social Media platforms and its emerging significance in Business
3	To understand Latest Trends and Practices in E-Commerce and Digital Marketing, along with its Challenges and Opportunities for an Organisation

SN	Modules/ Units
1	Introduction to E-commerce
	<ul style="list-style-type: none"> • Ecommerce- Meaning, Features of E-commerce, Categories of E-commerce, Advantages & Limitations of E-Commerce, Traditional Commerce & E-Commerce • Ecommerce Environmental Factors: Economic, Technological, Legal, Cultural & Social • Factors Responsible for Growth of E-Commerce, Issues in Implementing E-Commerce, Myths of E-Commerce • Impact of E-Commerce on Business, Ecommerce in India • Trends in E-Commerce in Various Sectors: Retail, Banking, Tourism, Government, Education • Meaning of M-Commerce, Benefits of M-Commerce, Trends in M-Commerce
2	E-Business & Applications
	<ul style="list-style-type: none"> • E-Business: Meaning, Launching an E-Business, Different phases of Launching an E-Business • Important Concepts in E-Business: Data Warehouse, Customer Relationship Management, Supply Chain Management, Enterprise Resource Planning • Bricks and Clicks business models in E-Business: Brick and Mortar, Pure Online, Bricks and Clicks, Advantages of Bricks & Clicks Business Model, Superiority of Bricks and Clicks E-Business Applications: E-Procurement, E-Communication, E-Delivery, E-Auction, E-Trading. • Electronic Data Interchange (EDI) in E-Business: Meaning of EDI, Benefits of EDI, Drawbacks of EDI, Applications of EDI. • Website : Design and Development of Website, Advantages of Website, Principles of Web Design, Life Cycle Approach for Building a Website, Different Ways of Building a Website
3	Payment, Security, Privacy & Legal Issues in E-Commerce
	<ul style="list-style-type: none"> • Issues Relating to Privacy and Security in E-Business • Electronic Payment Systems: Features, Different Payment Systems : Debit Card, Credit Card, Smart Card, E-cash, E-Cheque, E-wallet, Electronic Fund Transfer. • Payment Gateway: Introduction, Payment Gateway Process, Payment Gateway Types, Advantages and Disadvantages of Payment Gateway. • Types of Transaction Security • E-Commerce Laws: Need for E-Commerce laws, E-Commerce laws in India, Legal Issues in E-commerce in India, IT Act 2000

SN	Modules/ Units
4	Digital Marketing
	<ul style="list-style-type: none"> • Introduction to Digital Marketing, Advantages and Limitations of Digital Marketing. • Various Activities of Digital Marketing: Search Engine Optimization, Search Engine Marketing, Content Marketing & Content Influencer Marketing, Campaign Marketing, Email Marketing, Display Advertising, Blog Marketing, Viral Marketing, Podcasts & Vodcasts. • Digital Marketing on various Social Media platforms. • Online Advertisement, Online Marketing Research, Online PR • Web Analytics • Promoting Web Traffic • Latest developments and Strategies in Digital Marketing.

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Elective Courses (EC)

Group B: Marketing Electives

3. Sales and Distribution Management

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction	15
2	Market Analysis and Selling	15
3	Distribution Channel Management	15
4	Performance Evaluation, Ethics and Trends	15
Total		60

Objectives

SN	Objectives
1	To develop understanding of the sales & distribution processes in organizations
2	To get familiarized with concepts, approaches and the practical aspects of the key decision making variables in sales management and distribution channel management

SN	Modules/ Units
1	Introduction
	<p>a) Sales Management:</p> <ul style="list-style-type: none"> • Meaning, Role of Sales Department, Evolution of Sales Management • Interface of Sales with Other Management Functions • Qualities of a Sales Manager • Sales Management: Meaning, Developments in Sales Management- Effectiveness to Efficiency, Multidisciplinary Approach, Internal Marketing, Increased Use of Internet, CRM, Professionalism in Selling. • Structure of Sales Organization – Functional, Product Based, Market Based, Territory Based, Combination or Hybrid Structure <p>b) Distribution Management:</p> <ul style="list-style-type: none"> • Meaning, Importance, Role of Distribution, Role of Intermediaries, Evolution of Distribution Channels. <p>c) Integration of Marketing, Sales and Distribution</p>
2	Market Analysis and Selling
	<p>a) Market Analysis:</p> <ul style="list-style-type: none"> • Market Analysis and Sales Forecasting, Methods of Sales Forecasting • Types of Sales Quotas – Value Quota, Volume Quota, Activity Quota, Combination Quota • Factors Determining Fixation of Sales Quota • Assigning Territories to Salespeople <p>b) Selling:</p> <ul style="list-style-type: none"> • Process of Selling, Methods of Closing a Sale, Reasons for Unsuccessful Closing • Theories of Selling – Stimulus Response Theory, Product Orientation Theory, Need Satisfaction Theory • Selling Skills – Communication Skill, Listening Skill, Trust Building Skill, Negotiation Skill, Problem Solving Skill, Conflict Management Skill • Selling Strategies – Softsell Vs. Hardsell Strategy, Client Centered Strategy, Product-Price Strategy, Win-Win Strategy, Negotiation Strategy • Difference Between Consumer Selling and Organizational Selling • Difference Between National Selling and International Selling

SN	Modules/ Units
3	Distribution Channel Management
	<ul style="list-style-type: none"> • Management of Distribution Channel – Meaning & Need • Channel Partners- Wholesalers, Distributors and Retailers & their Functions in Distribution Channel, Difference Between a Distributor and a Wholesaler • Choice of Distribution System – Intensive, Selective, Exclusive • Factors Affecting Distribution Strategy – Locational Demand, Product Characteristics, Pricing Policy, Speed or Efficiency, Distribution Cost • Factors Affecting Effective Management Of Distribution Channels <ul style="list-style-type: none"> ▪ Channel Design ▪ Channel Policy ▪ Channel Conflicts: Meaning, Types – Vertical, Horizontal, Multichannel, Reasons for Channel Conflict ▪ Resolution of Conflicts: Methods – Kenneth Thomas’s Five Styles of Conflict Resolution ▪ Motivating Channel Members ▪ Selecting Channel Partners ▪ Evaluating Channels ▪ Channel Control
4	Performance Evaluation, Ethics and Trends
	<p>a) Evaluation & Control of Sales Performance:</p> <ul style="list-style-type: none"> • Sales Performance – Meaning • Methods of Supervision and Control of Sales Force • Sales Performance Evaluation Criteria- Key Result Areas (KRAs) • Sales Performance Review • Sales Management Audit <p>b) Measuring Distribution Channel Performance:</p> <ul style="list-style-type: none"> • Evaluating Channels- Effectiveness, Efficiency and Equity • Control of Channel – Instruments of Control – Contract or Agreement, Budgets and Reports, Distribution Audit <p>c) Ethics in Sales Management</p> <p>d) New Trends in Sales and Distribution Management</p>

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Elective Courses (EC)

Group B: Marketing Electives

4. Customer Relationship Management

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Customer Relationship Management	15
2	CRM Marketing Initiatives, Customer Service and Data Management	15
3	CRM Strategy, Planning, Implementation and Evaluation	15
4	CRM New Horizons	15
Total		60

Objectives

SN	Objectives
1	To understand concept of Customer Relationship Management (CRM) and implementation of Customer Relationship Management
2	To provide insight into CRM marketing initiatives, customer service and designing CRM strategy
3	To understand new trends in CRM, challenges and opportunities for organizations

SN	Modules/ Units
1	Introduction to Customer Relationship Management
	<ul style="list-style-type: none"> • Concept, Evolution of Customer Relationships: Customers as strangers, acquaintances, friends and partners • Objectives, Benefits of CRM to Customers and Organisations, Customer Profitability Segments, Components of CRM: Information, Process, Technology and People, Barriers to CRM • Relationship Marketing and CRM: Relationship Development Strategies: Organizational Pervasive Approach, Managing Customer Emotions, Brand Building through Relationship Marketing, Service Level Agreements, Relationship Challenges
2	CRM Marketing Initiatives, Customer Service and Data Management
	<ul style="list-style-type: none"> • CRM Marketing Initiatives: Cross-Selling and Up-Selling, Customer Retention, Behaviour Prediction, Customer Profitability and Value Modeling, Channel Optimization, Personalization and Event-Based Marketing • CRM and Customer Service: Call Center and Customer Care: Call Routing, Contact Center Sales-Support, Web Based Self Service, Customer Satisfaction Measurement, Call-Scripting, Cyber Agents and Workforce Management • CRM and Data Management: Types of Data: Reference Data, Transactional Data, Warehouse Data and Business View Data, Identifying Data Quality Issues, Planning and Getting Information Quality, Using Tools to Manage Data, Types of Data Analysis: Online Analytical Processing (OLAP), Clickstream Analysis, Personalisation and Collaborative Filtering, Data Reporting
3	CRM Strategy, Planning, Implementation and Evaluation
	<ul style="list-style-type: none"> • Understanding Customers: Customer Value, Customer Care, Company Profit Chain: Satisfaction, Loyalty, Retention and Profits • Objectives of CRM Strategy, The CRM Strategy Cycle: Acquisition, Retention and Win Back, Complexities of CRM Strategy • Planning and Implementation of CRM: Business to Business CRM, Sales and CRM, Sales Force Automation, Sales Process/ Activity Management, Sales Territory Management, Contact Management, Lead Management, Configuration Support, Knowledge Management CRM Implementation: Steps- Business Planning, Architecture and Design, Technology Selection, Development, Delivery and Measurement • CRM Evaluation: Basic Measures: Service Quality, Customer Satisfaction and Loyalty, Company 3E Measures: Efficiency, Effectiveness and Employee Change

4	CRM New Horizons
	<ul style="list-style-type: none">• e-CRM: Concept, Different Levels of E- CRM, Privacy in E-CRM:• Software App for Customer Service:<ul style="list-style-type: none">▪ Activity Management, Agent Management, Case Assignment, Contract Management, Customer Self Service, Email Response Management, Escalation, Inbound Communication Management, Invoicing, Outbound Communication Management, Queuing and Routing, Scheduling• Social Networking and CRM• Mobile-CRM• CRM Trends, Challenges and Opportunities• Ethical Issues in CRM

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**Elective Courses (EC)
Group B: Marketing Electives**

5. Industrial Marketing

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Industrial Marketing -An Introduction, Marketing Environment and Buying Behaviour	15
2	Industrial Marketing Research and Segmentation, Targeting and Positioning in Industrial Market	15
3	Industrial Marketing Mix	15
4	Emerging Trends in Industrial Marketing	15
Total		60

Objectives

SN	Objectives
01	To understand basics of industrial marketing, Marketing Environment, Segmenting Targeting Positioning, channel strategy, marketing communication and pricing
02	To provide knowledge of industrial market structure and how they function
03	To provide understanding of the various attributes and models applicable in Industrial Marketing
04	To acquaint the students with trends in Industrial Marketing

Sr. No.	Modules / Units
1	Industrial Marketing -An Introduction, Marketing Environment and Buying Behaviour
	<ul style="list-style-type: none"> ● Introduction to Industrial Marketing: Introduction, Definition, Features, Industrial versus Consumer marketing, Classification of Industrial products and Services ● Industrial Marketing Environment: Technological; Customer; Competitive, Legal and Economic Environment; Responsibility of industrial Marketing Manager in planning, Coordination, Execution and control ● Industrial Buying and Buying Behaviour: Procurement function; Purchase policy; Organization buying processes, Profile of Business buyers: Buying Centres; Buying Centres Roles; Buying Centre Members, Vender Analysis: Criteria for evaluating potential vendor; Vendor Rating, Models of industrial buying Behaviour
2	Industrial Marketing Research and Segmentation, Targeting and Positioning in Industrial Market
	<ul style="list-style-type: none"> ● Industrial Marketing Research: Introduction, Classification of Industrial Marketing Research, Industrial Marketing Research Process, Role and Scope of Industrial Marketing Research, Advantages and limitations of Industrial Marketing Research, Role of Industrial Marketing Research in Marketing Information System and Decision Support System. ● Segmentation, Targeting and Positioning in Industrial Market: Introduction to segmentation; Criteria for market segmentation; Basis of Market segmentation, choosing the market segmentation, Target Market: Concept, Approaches to Target Market, Positioning: Concept, Objectives of positioning, Positioning of Products and services; Effective Positioning; positioning process.
3	Industrial Marketing Mix
	<ul style="list-style-type: none"> ● Industrial Products and New Product Development: Introduction to Industrial Products; Product Policy; Product Classification; Introduction to new product development; New industrial products; stages in New product development. ● Industrial Pricing: Introduction to industrial Pricing; Factors influencing industrial pricing decision; Types of pricing; Leasing; Bidding; Negotiation ● Industrial Marketing Communication: Advertising, Personal selling and Sales promotion: Role of advertising in B2B Market; various media options; Advertising on the internet; Using Advertising Agencies for industrial Marketers; Personal Selling in industrial Marketing; Different steps in Personal Selling; Sales promotion in industrial marketing. ● Marketing Channels and Physical Distribution of Industrial Products: Industrial marketing channels; Indirect and direct marketing channels; Importance of marketing channels; Factors affecting selection of Marketing Channels; Process of designing the channel structure: Analyzing the channel objectives, constraints, channel tasks, channel alternatives and selecting the channel
4	Emerging Trends in Industrial Marketing
	<ul style="list-style-type: none"> ● Business Networks : Business Networks in Industrial marketing, Relationship in Business networks , Technology and Business networks ● E-Procurement in Industrial Market: Meaning , Importance of E-procurement , Implementation of E-procurement ● E-Commerce: Definition of E-Commerce, Advantages and disadvantages of B2B E-Commerce, Role of E-Commerce in the context B2B marketer, Forms of B2B E-Commerce, Electronic Data Interchange; E-payments; E-security

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**Elective Courses (EC)
Group B: Marketing Electives**

6. Strategic Marketing Management

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Strategic Marketing Management	15
2	Segmenting, Targeting, Positioning and Creation of Value in the context of Strategic Marketing	15
3	Strategic Decisions in Product, Services and Branding	15
4	Strategic Decisions in Pricing, Promotion and Distribution and strategic growth management	15
Total		60

Objectives

SN	Objectives
01	To understand marketing strategies and their impact on business models
02	To learn strategic marketing tactics related to product, price, service, brand, positioning, incentives and communication for business growth.
03	To learn the various marketing strategies adopted by Companies to create a competitive advantage

Sr. No.	Modules / Units
1	<p>Introduction to Strategic Marketing Management</p> <ul style="list-style-type: none"> • Marketing: Nature of Marketing, marketing as an art, science and business discipline, marketing as a value creation process • Strategic decisions: Nature of strategy, the marketing strategy interface, difference between marketing planning and strategic planning • Identifying the market: The five C framework-customer, company, collaborator, competitor, context • The 7 tactics of Marketing mix: Product, service, brand, price ,incentives, communication and distribution • Business Model and Strategic Marketing Planning: Meaning, Role of Business models in marketing management, Strategies for developing a business models: top-down business model generation, bottom up business model generation, The G-STIC frame work for marketing planning: Goal-Strategy-Tactics-Implementation-control
2	<p>Segmenting, Targeting, Positioning and Creation of Value in the context of Strategic Marketing:</p> <ul style="list-style-type: none"> • Segmentation: Essence of segmentation, Factors to be considered while segmenting, key segmenting principles- relevance, similarity, exclusivity • Identifying Target Customers: Factors to be considered while targeting, targeting strategies-One for all strategy, one for each strategy, Strategic Targeting criteria: target attractiveness, target compatibility <p>Essential strategic assets for target compatibility: business infrastructure, collaborator networks, human capital, intellectual property, strong brands, established customer base, synergistic offerings, access to scarce resources and capital.</p> <ul style="list-style-type: none"> • Creating Customer Value through Positioning: Role of strategic positioning, strategic positioning options: The quality option, value option, the pioneer, a narrow product focus, target segment focus; strategies for creating superior customer value. <p>Creating Company Value: Understanding Company Value: Monetary, functional and psychological value; strategically managing profits--increasing sales revenue-through volume, optimizing price, lowering costs</p> <p>Creating Collaborator Value: Meaning of collaborators, collaboration as business process, advantages and drawbacks of collaboration, levels of strategic collaboration: explicit, implicit; alternatives to collaboration: horizontal and vertical integration, managing collaborator relations; gaining collaborator power: offering differentiation; collaborator size, strategic importance, switching costs</p>

3	Strategic Decisions in Product, Services and Branding
	<ul style="list-style-type: none"> • Managing Product and Services: factors affecting product and service decisions- performance, consistency, reliability, durability, compatibility, ease of use, technological design, degree of customization, physical aspects, style, packaging. <p>Managing New Products: Forecasting new product demand using Primary Data and secondary data: offering specific forecasting, forecasting by analogy, category based forecasting.</p> <p>New product adoption: Understanding new product adoption, factors influencing diffusion of new offering, new product development process, managing risk in new products- market risk and technological risk, Moore’s Model of adoption of new technologies, managing product life cycle at various stages, extending Product lifecycle.</p> <ul style="list-style-type: none"> • Managing Product Lines: Managing vertical, upscale, downscale, horizontal product-Line Extensions, Managing Product Line Cannibalization, Managing Product lines to gain and defend market position-The Fighting Brand Strategy, The sandwich strategy, The Good-better-best strategy • Brand Tactics: Brand: Meaning, brand identity, brand as value creation process brand hierarchy-Individual and umbrella branding, brand extension: vertical and horizontal, brand equity and brand power, measuring brand equity-cost based approach, market based approach and financial based approach.
4	Strategic Decisions in Pricing, Promotion and Distribution and strategic growth management
	<p>A) Managing Price: Major approaches to strategic pricing-cost based pricing, competitive pricing, demand pricing; Price sensitivity: meaning, psychological pricing, Five psychological pricing effects: reference price effects, price quantity effects, price tier effects, price ending effects, product line effects; Understanding competitive pricing and price wars: factors affecting price wars, Approach for developing a strategic response to competitors price cut, Other pricing strategies-captive pricing, cross price elasticity, deceptive pricing, everyday low pricing, experience curve pricing, loss leader pricing, horizontal price fixing, price signalling.</p> <p>B) Managing Promotions and incentives: Promotion mix strategy, Factors affecting strategic decisions in promotion mix, Promotion expenditure strategy, Methods to determine promotion expenditure-Breakdown Method, Buildup Method, Push and Pull promotions.</p> <p>Managing incentives as a value creation process, Goals of using customer incentives, Monetary incentives for customers, Non monetary incentives for customers.</p> <p>Collaborator incentives meaning, monetary incentives-slotting allowance, stocking allowance, cooperative advertising allowance, market development allowance, display allowance, spiffs</p> <p>C) Managing distribution: Distribution as value creation process, distribution channel design process- Channel structure: Direct, indirect and hybrid channel; channel coordination- common ownership, contractual relationship, implicit channel coordination; channel type, channel coverage, channel exclusivity</p> <p>D) Strategic Growth Management: Gaining market position: strategies to gain market position: steal share strategy, market growth strategy, market innovation strategy; Pioneering new markets: Meaning, Types of Pioneers: technology, product, business model, markets; benefits and drawbacks of being a Pioneer.</p> <p>Defending market position: Strategies to defend market position- ignoring competitors’ action, repositioning the existing offer- repositioning to increase value for current customers, repositioning to attract new customers.</p>

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Elective Courses (EC)

Group C: Human Resource Electives

**1. Finance for HR Professionals and
Compensation Management**

Modules at a Glance

SN	Modules	No. of Lectures
1	Compensation Plans and HR Professionals	15
2	Incentives and Wages	15
3	Compensation to Special Groups and Recent Trends	15
4	Legal and Ethical issues in Compensation	15
Total		60

Objectives

SN	Objectives
1	To orient HR professionals with financial concepts to enable them to make prudent HR decisions
2	To understand the various compensation plans
3	To study the issues related to compensation management and understand the legal framework of compensation management

SN	Modules/ Units
1	Compensation Plans and HR Professionals
	<ul style="list-style-type: none"> • Meaning, Objectives of Compensation Plans, Role of HR Professionals in Compensation Plans, Types of Compensation: Financial and non-financial, Factors Influencing Compensation • Compensation Tools: Job based and Skill based, Models: Distributive Justice Model and Labour Market Model, Dimensions of Compensation • 3 Ps Compensation Concept, Benefits of Compensation: Personal, Health and Safety, Welfare, Social Security • Pay Structure: Meaning, Features, Factors, Designing the Compensation System, Compensation Scenario in India.
2	Incentives and Wages
	<ul style="list-style-type: none"> • Incentive Plans – Meaning and Types: Piecework, Team, Incentives for Managers and Executives, Salespeople, Merit pay, Scanlon Pay, Profit Sharing Plan, ESOP, Gain Sharing, Earning at Risk plan, Technology and Incentives. Prerequisites of an Effective Incentive System • Wage Differentials: Concepts, Factors contributing to Wage Differentials, Types of Wage Differentials, Importance of Wage Differentials, Elements of a Good Wage Plan. • Theories of Wages: Subsistence Theory, Wage Fund Theory, Marginal Productivity Theory, Residual Claimant Theory, Bargaining Theory.
3	Compensation to Special Groups and Recent Trends
	<ul style="list-style-type: none"> • Compensation for Special Groups: Team Based pay, Remunerating Professionals, Contract Employees, Corporate Directors, CEOs, Expatriates and Executives. • Human Resource Accounting – Meaning, Features, Objectives and Methods • Recent Trends: Golden Parachutes, e-Compensation, Salary Progression Curve, Competency and Skill based, Broad banding and New Pay, Cafeteria approach – Features, Advantages and Disadvantages.
4	Legal and Ethical issues in Compensation
	<ul style="list-style-type: none"> • Legal Framework of Compensation in India: Wage Policy in India, Payment of Bonus Act 1965, Equal Remuneration Act 1976, Payment of Wages Act 1936, Payment of Gratuity Act 1972, Employee Compensation Act 1923, Employees Provident Funds and Miscellaneous Provision Act 1952. • Pay Commissions, Wage Boards, Adjudication, Legal considerations, COBRA requirement, Pay Restructuring in Mergers and Acquisitions, Current Issues and Challenges in Compensation Management, Ethics in Compensation Management.

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Elective Courses (EC)

Group C: Human Resource Electives

**2. Strategic Human Resource Management and
HR Policies**

Modules at a Glance

SN	Modules	No. of Lectures
1	SHRM - An Overview	15
2	HR Strategies	15
3	HR Policies	15
4	Recent Trends in SHRM	15
Total		60

Objectives

SN	Objectives
1	To understand human resource management from a strategic perspective
2	To link the HRM functions to corporate strategies in order to understand HR as a strategic resource
3	To understand the relationship between strategic human resource management and organizational performance
4	To apply the theories and concepts relevant to strategic human resource management in contemporary organizations
5	To understand the purpose and process of developing Human Resource Policies

SN	Modules/ Units
1	SHRM - An Overview
	<ul style="list-style-type: none"> • Strategic Human Resource Management (SHRM) – Meaning, Features, Evolution, Objectives, Advantages, Barriers to SHRM, SHRM v/s Traditional HRM, Steps in SHRM, Roles in SHRM - Top Management, Front-line Management, HR, Changing Role of HR Professionals, Models of SHRM – High Performance Working Model, High Commitment Management Model, High Involvement Management Model • HR Environment –Environmental trends and HR Challenges • Linking SHRM and Business Performance
2	HR Strategies
	<ul style="list-style-type: none"> • Developing HR Strategies to Support Organisational Strategies, Resourcing Strategy – Meaning and Objectives, Strategic HR Planning – Meaning, Advantages, Interaction between Strategic Planning and HRP, Managing HR Surplus and Shortages, Strategic Recruitment and Selection – Meaning and Need, Strategic Human Resource Development – Meaning, Advantages and Process, Strategic Compensation as a Competitive Advantage, Rewards Strategies – Meaning, Importance, Employee Relations Strategy, Retention Strategies, Strategies for Enhancing Employee Work Performance
3	HR Policies
	<ul style="list-style-type: none"> • Human Resource Policies – Meaning, Features, Purpose of HR Policies, Process of Developing HR Policies, Factors affecting HR Policies, Areas of HR Policies in Organisation, Requisites of a Sound HR Policies – Recruitment, Selection, Training and Development, Performance Appraisal, Compensation, Promotion, Outsourcing, Retrenchment, Barriers to Effective Implementation of HR Policies and Ways to Overcome These Barriers, Need for Reviewing and Updating HR Policies, Importance of Strategic HR Policies to Maintain Workplace Harmony
4	Recent Trends in SHRM
	<ul style="list-style-type: none"> • i.e. Mentoring • Employee Engagement – Meaning, Factors Influencing Employee Engagement, Strategies for Enhancing Employee Engagement • Contemporary Approaches to HR Evaluation – Balance Score Card, HR Score Card, Benchmarking and Business Excellence Model • Competency based HRM – Meaning, Types of Competencies, Benefits of Competencies for Effective Execution of HRM Functions. • Human Capital Management –Meaning and Role • New Approaches to Recruitment – Employer Branding, Special Event Recruiting, Contest Recruitment, e - Recruitment • Strategic International Human Resource Management – Meaning and Features, International SHRM Strategic Issues, Approaches to Strategic International HRM.

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Elective Courses (EC)

Group C: Human Resource Electives

3. Performance Management and Career Planning

Modules at a Glance

SN	Modules	No. of Lectures
1	Performance Management – An Overview	15
2	Performance Management Process	15
3	Ethics, Under Performance and Key Issues in Performance Management	15
4	Career Planning and Development	15
Total		60

Objectives

SN	Objectives
1	To understand the concept of performance management in organizations
2	To review performance appraisal systems
3	To understand the significance of career planning and practices

SN	Modules/ Units
1	Performance Management – An Overview
	<ul style="list-style-type: none"> • Performance Management– Meaning, Features, Components of Performance Management, Evolution, Objectives, Need and Importance, Scope, Performance Management Process, Pre-Requisites of Performance Management, Linkage of Performance Management with other HR functions, Performance Management and Performance Appraisal, Performance Management Cycle • Best Practices in Performance Management, Future of Performance Management. • Role of Technology in Performance Management
2	Performance Management Process
	<ul style="list-style-type: none"> • Performance Planning – Meaning, Objectives, Steps for Setting Performance Criteria, Performance Benchmarking • Performance Managing – Meaning, Objectives, Process • Performance Appraisal – Meaning, Approaches of Performance Appraisal – Trait Approach, Behaviour Approach, Result Approach • Performance Monitoring–Meaning, Objectives and Process • Performance Management Implementation – Strategies for Effective Implementation of Performance Management • Linking Performance Management to Compensation • Concept of High Performance Teams
3	Ethics, Under Performance and Key Issues in Performance Management
	<ul style="list-style-type: none"> • Ethical Performance Management - Meaning, Principles, Significance of Ethics in Performance Management, Ethical Issues in Performance Management, Code of Ethics in Performance Management, Building Ethical Performance Culture, Future Implications of Ethics in Performance Management • Under Performers and Approaches to Manage Under Performers, Retraining • Key Issues and Challenges in Performance Management • Potential Appraisal: Steps, Advantages and Limitations. • Pay Criteria -Performance related pay, Competence related pay, Team based pay, Contribution related pay.
4	Career Planning and Development
	<ul style="list-style-type: none"> • Career Planning - Meaning, Objectives, Benefits and Limitations, Steps in Career Planning, Factors affecting Individual Career Planning, Role of Mentor in Career Planning, Requisites of Effective Career Planning • Career Development – Meaning, Role of employer and employee in Career Development, Career Development Initiatives • Role of Technology in Career Planning and Development • Career Models – Pyramidal Model, Obsolescence Model, Japanese Career Model • New Organizational Structures and Changing Career Patterns

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Elective Courses (EC)

Group C: Human Resource Electives

4. Industrial Relations

Modules at a Glance

SN	Modules	No. of Lectures
1	Industrial Relations- An overview	15
2	Industrial Disputes	15
3	Trade Unions and Collective Bargaining	15
4	Industrial Relations Related Laws in India	15
Total		60

Objectives

SN	Objectives
1	To understand the concept of performance management in organizations
2	To review performance appraisal systems
3	To understand the significance of career planning and practices

SN	Modules/ Units
1	Industrial Relations- An overview
	<ul style="list-style-type: none"> • Meaning, Objectives, Characteristics of a good Industrial Relations System/Principles of a good IR/Essentials of good IR, Scope, Significance/Need and Importance of IR, Major Stakeholders of IR, Evolution of IR in India, Factors affecting IR, Role of State, Employers and Unions in IR, Changing Dimensions of IR in India, Impact of Liberalisation, Privatisation and Globalisation on Industrial Relations, Issues and Challenges of industrial relations in India
2	Industrial Disputes
	<p>a) Industrial Disputes:</p> <ul style="list-style-type: none"> • Meaning of Industrial Dispute, Causes, Forms/Types, Consequences/Effects, Methods of Settling Industrial Disputes (Arbitration, Joint Consultations, Works Committee, Conciliation, Adjudication etc) • Concepts Related to Industrial Disputes (Relevant Examples): Strike, Layoff, Lockout, Retrenchment <p>b) Employee Discipline:</p> <ul style="list-style-type: none"> • Meaning, Determinants, Causes of Indiscipline, Code of Discipline and its Enforcement. <p>c) Grievance Handling:</p> <ul style="list-style-type: none"> • Meaning of Grievances, Causes of Grievances, Guidelines for Grievance Handling, Grievance Redressal Procedure in India. <p>d) Workers' Participation in Management:</p> <ul style="list-style-type: none"> • Meaning and Types with Respect to India
3	Trade Unions and Collective Bargaining
	<p>a) Trade Unions:</p> <ul style="list-style-type: none"> • Meaning, Features, Objectives, Role of Trade Unions, Functions/Activities, Types, Evolution of Trade Unions across Globe, Evolution of Trade Unions in India, Structure of Trade Unions in India, Recognition of Trade Unions, Rights and Privileges of Registered Trade Unions, Impact of Globalisation on Trade Unions in India, Central Organisations of Indian Trade Unions : INTUC, AITUC, HMS,UTUC, Problems of Trade Unions in India. <p>b) Collective Bargaining:</p> <ul style="list-style-type: none"> • Meaning, Features, Importance, Scope, Collective Bargaining Process, Prerequisites of Collective Bargaining, Types of Collective Bargaining Contracts, Levels of Collective Bargaining, Growth of Collective Bargaining in India, Obstacles to Collective Bargaining in India.

SN	Modules/ Units
4	Industrial Relations Related Laws in India
	<ul style="list-style-type: none">• Role of Judiciary in Industrial Relations: Labour Court, Industrial Tribunal, National Tribunal• The Trade Unions Act, 1926;• The Industrial Employment (Standing Orders) Act, 1946;• The Industrial Disputes Act, 1947;• The Factories' Act, 1948• The Minimum Wages Act, 1948

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Elective Courses (EC)

Group C: Human Resource Electives

5. Talent & Competency Management

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Talent Management	15
2	Talent Management System	15
3	Contemporary Issues and Current Trends in Talent Management	15
4	Competency Management and Competency Mapping	15
Total		60

Objectives

SN	Objectives
01	To understand key talent management & competency management concepts
02	To understand the concept and importance of competency mapping
03	To understand the role of talent management and competency management in building sustainable competitive advantage to an organization
04	To know the ethical and legal obligations associated with talent management

Sr. No.	Modules / Units
1	Introduction to Talent Management
	<ul style="list-style-type: none"> • Talent Management – Meaning, History, Scope of Talent Management, Need of Talent Management • Benefits and Limitations of Talent Management • Principles of Talent Management • Source of Talent Management • Talent Gap – Meaning, Strategies to Fill Gaps • The Talent Value Chain • Role of HR in Talent Management • Role of Talent Management in building Sustainable Competitive Advantage to an Organization
2	Talent Management System
	<ul style="list-style-type: none"> • Talent Management System – Meaning, Key Elements of Talent Management System • Critical Success Factors to Create Talent Management System • Building Blocks for Talent Management - Introduction, Effective Talent Management System, Building Blocks of Effective Talent Management System • Life Cycle of Talent Management - Meaning, Steps in Talent Management Process, Importance of Talent Management Process, Essentials of Talent Management Process • Approaches to Talent Management • Talent Management Strategy – Meaning, Developing a Talent Management Strategy, Mapping Business Strategies and Talent Management Strategies • Talent Management and Succession Planning
3	Contemporary Issues and Current Trends in Talent Management
	<ul style="list-style-type: none"> • Role of Information Technology in Effective Talent Management Systems, Talent Management Information System, Creating Business Value through Information Technology, Five Steps to a Talent Management Information Strategy • Contemporary Talent Management Issues, Talent Management Challenges • Current Trends in Talent Management • Best Practices of Talent Management • Ethical and Legal Obligations Associated with Talent Management • Talent Management in India
4	Competency Management and Competency Mapping
	<ul style="list-style-type: none"> • Concept of Competency and Competence, Competence v/s Competency • Types of Competencies, Benefits and Limitations of implementing competencies • Iceberg Model of Competency • Competency Management – Meaning, Features and Objectives • Benefits and Challenges of Competency Management • Competency Development – Meaning, Process • Competency Mapping - Meaning, Features, Need and importance of competency mapping • Methods of Competency Mapping, Steps in Competency Mapping

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**Elective Courses (EC)
Group C: Human Resource Electives**

6. Stress Management

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Understanding Stress	15
2	Managing Stress – I	15
3	Managing Stress – II	15
4	Stress Management Leading to Success	15
Total		60

Objectives

SN	Objectives
01	To understand the nature and causes of stress in organizations
02	To familiarize the learners with the stress prevention mechanism
03	To understand the strategies that help cope with stress
04	To be able to apply stress management principles in order to achieve high levels of performance
05	To enable to learners to adopt effective strategies, plans and techniques to deal with stress

Sr. No.	Modules / Units
1	Understanding Stress
	<ul style="list-style-type: none"> • Stress – concept, features, types of stress • Relation between Stressors and Stress • Potential Sources of Stress – Environmental, Organizational and Individual • Consequences of Stress – Physiological, Psychological and Behavioural Symptoms • Stress at work place – Meaning, Reasons • Impact of Stress on Performance • Work Stress Model • Burnout – Concept • Stress v/s Burnout
2	Managing Stress – I
	<ul style="list-style-type: none"> • Pre-requisites of Stress-free Life • Anxiety - Meaning, Mechanisms to cope up with anxiety • Relaxation - Concept and Techniques • Time Management - Meaning, Importance of Time Management • Approaches to Time Management • Stress Management - Concept, Benefits • Managing Stress at Individual level • Role of Organization in Managing Stress/ Stress Management Techniques • Approaches to Manage Stress - Action oriented, Emotion oriented, Acceptance oriented.
3	Managing Stress – II
	<ul style="list-style-type: none"> • Models of Stress Management - Transactional Model, Health Realization/ Innate Health Model • General Adaption Syndrome (GAS) - Concept, Stages • Measurement of Stress Reaction - The Physiological Response, The Cognitive Response, The Behavioural Response. • Stress prevention mechanism - Stress management through mind control and purification theory and practice of yoga education. • Stress management interventions: primary, secondary, tertiary. • Meditation – Meaning, Importance • Role of Pranayama, Mantras, Nutrition, Music, Non-violence in stress control
4	Stress Management Leading to Success
	<ul style="list-style-type: none"> • Eustress – Concept, Factors affecting Eustress • Stress Management Therapy - Concept, Benefits • Stress Counselling - Concept • Value education for stress management • Stress and New Technology • Stress Audit Process • Assessment of Stress - Tools and Methods • Future of Stress Management

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Core Course (CC)

5. Logistics and Supply Chain Management

Modules at a Glance

SN	Modules	No. of Lectures
1	Overview of Logistics and Supply Chain Management	15
2	Elements of Logistics Mix	15
3	Inventory Management, Logistics Costing, Performance Management and Logistical Network Analysis	15
4	Recent Trends in Logistics and Supply Chain Management	15
Total		60

Objectives

SN	Objectives
1	To provide students with basic understanding of concepts of logistics and supply chain management
2	To introduce students to the key activities performed by the logistics function
3	To provide an insight in to the nature of supply chain, its functions and supply chain systems
4	To understand global trends in logistics and supply chain management

SN	Modules/ Units
1	<p>Overview of Logistics and Supply Chain Management</p> <p>a) Introduction to Logistics Management</p> <ul style="list-style-type: none"> • Meaning, Basic Concepts of Logistics- Logistical Performance Cycle, Inbound Logistics, Inprocess Logistics, Outbound Logistics, Logistical Competency, Integrated Logistics , Reverse Logistics and Green Logistics • Objectives of Logistics, Importance of Logistics, Scope of Logistics, Logistical Functions/Logistic Mix, Changing Logistics Environment <p>b) Introduction to Supply Chain Management</p> <ul style="list-style-type: none"> • Meaning, Objectives, Functions, Participants of Supply Chain, Role of Logistics in Supply Chain, Comparison between Logistics and Supply Chain Management, Channel Management and Channel Integration <p>c) Customer Service: Key Element of Logistics</p> <ul style="list-style-type: none"> • Meaning of Customer Service, Objectives, Elements, Levels of customer service, Rights of Customers <p>d) Demand Forecasting</p> <ul style="list-style-type: none"> • Meaning, Objectives ,Approaches to Forecasting, Forecasting Methods, Forecasting Techniques, (Numerical on Simple Moving Average, Weighted Moving Average)
2	<p>Elements of Logistics Mix</p> <p>a) Transportation</p> <ul style="list-style-type: none"> • Introduction, Principles and Participants in Transportation, Transport Functionality, Factors Influencing Transportation Decisions, Modes of Transportation- Railways, Roadways, Airways, Waterways, Ropeways, Pipeline, Transportation Infrastructure, Intermodal Transportation <p>b) Warehousing</p> <ul style="list-style-type: none"> • Introduction, Warehouse Functionality, Benefits of Warehousing, Warehouse Operating Principles, Types of Warehouses, Warehousing Strategies, Factors affecting Warehousing <p>c) Materials Handling</p> <ul style="list-style-type: none"> • Meaning, Objectives, Principles of Materials Handling, Systems of Materials Handling, Equipments used for Materials Handling, Factors affecting Materials Handling Equipments <p>d) Packaging</p> <ul style="list-style-type: none"> • Introduction, Objectives of Packaging, Functions/Benefits of Packaging, Design Considerations in Packaging, Types of Packaging Material, Packaging Costs

SN	Modules/ Units
3	Inventory Management, Logistics Costing, Performance Management and Logistical Network Analysis
	<p>a) Inventory Management</p> <ul style="list-style-type: none"> • Meaning, Objectives, Functions, Importance, Techniques of Inventory Management (Numericals - EOQ and Reorder levels) <p>b) Logistics Costing</p> <ul style="list-style-type: none"> • Meaning, Total Cost Approach, Activity Based Costing, Mission Based Costing <p>c) Performance Measurement in Supply Chain</p> <ul style="list-style-type: none"> • Meaning, Objectives of Performance Measurement, Types of Performance Measurement, Dimensions of Performance Measurement, Characteristics of Ideal Measurement System <p>d) Logistical Network Analysis</p> <ul style="list-style-type: none"> • Meaning, Objectives, Importance, Scope, RORO/LASH
4	Recent Trends in Logistics and Supply Chain Management
	<p>a) Information Technology in Logistics</p> <ul style="list-style-type: none"> • Introduction, Objectives, Role of Information Technology in Logistics and Supply Chain Management, Logistical Information System, Principles of Logistical Information System, Types of Logistical Information System, Logistical Information Functionality, Information Technology Infrastructure <p>b) Modern Logistics Infrastructure</p> <ul style="list-style-type: none"> • Golden Quadrilateral, Logistics Parks, Deep Water Ports, Dedicated Freight Corridor, Inland Container Depots/Container Freight Stations, Maritime Logistics, Double Stack Containers/Unit Trains <p>c) Logistics Outsourcing</p> <ul style="list-style-type: none"> • Meaning, Objectives, Benefits/Advantages of Outsourcing, Third Party Logistics Provider, Fourth Party Logistics Provider, Drawbacks of Outsourcing, Selection of Logistics Service Provider, Outsourcing-Value Proposition <p>d) Logistics in the Global Environment</p> <ul style="list-style-type: none"> • Managing the Global Supply Chain, Impact of Globalization on Logistics and Supply Chain Management, Global Logistics Trends, Global Issues and Challenges in Logistics and Supply Chain Management

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Ability Enhancement Courses (AEC)

6. Corporate Communication & Public Relations

Modules at a Glance

SN	Modules	No. of Lectures
1	Foundation of Corporate Communication	15
2	Understanding Public Relations	15
3	Functions of Corporate Communication and Public Relations	15
4	Emerging Technology in Corporate Communication and Public Relations	15
Total		60

Objectives

SN	Objectives
1	To provide the students with basic understanding of the concepts of corporate communication and public relations
2	To introduce the various elements of corporate communication and consider their roles in managing organizations
3	To examine how various elements of corporate communication must be coordinated to communicate effectively
4	To develop critical understanding of the different practices associated with corporate communication

SN	Modules/ Units
1	Foundation of Corporate Communication
	<p>a) Corporate Communication: Scope and Relevance</p> <ul style="list-style-type: none"> • Introduction, Meaning, Scope, Corporate Communication in India, Need/ Relevance of Corporate Communication in Contemporary Scenario <p>b) Keys concept in Corporate Communication</p> <ul style="list-style-type: none"> • Corporate Identity: Meaning and Features, Corporate Image: Meaning, Factors Influencing Corporate Image, Corporate Reputation: Meaning, Advantages of Good Corporate Reputation <p>c) Ethics and Law in Corporate Communication</p> <ul style="list-style-type: none"> • Importance of Ethics in Corporate Communication, Corporate Communication and Professional Code of Ethics, Mass Media Laws: Defamation, Invasion of Privacy, Copyright Act, Digital Piracy, RTI
2	Understanding Public Relations
	<p>a) Fundamental of Public Relations:</p> <ul style="list-style-type: none"> • Introduction, Meaning, Essentials of Public Relations, Objectives of Public Relations, Scope of Public Relations, Significance of Public Relations in Business <p>b) Emergence of Public Relations:</p> <ul style="list-style-type: none"> • Tracing Growth of Public Relations, Public Relations in India, Reasons for Emerging International Public Relations <p>c) Public Relations Environment:</p> <ul style="list-style-type: none"> • Introduction, Social and Cultural Issues, Economic Issues, Political Issues, Legal Issues <p>d) Theories used in Public Relations:</p> <ul style="list-style-type: none"> • Systems Theory, Situational Theory, Social Exchange Theory, Diffusion Theory
3	Functions of Corporate Communication and Public Relations
	<p>a) Media Relations:</p> <ul style="list-style-type: none"> • Introduction, Importance of Media Relations, Sources of Media Information, Building Effective Media Relations, Principles of Good Media Relations <p>b) Employee Communication:</p> <ul style="list-style-type: none"> • Introduction, Sources of Employee Communications, Organizing Employee Communications, Benefits of Good Employee Communications, Steps in Implementing An Effective Employee Communications Programme, Role of Management in Employee Communications <p>c) Crisis Communication:</p> <ul style="list-style-type: none"> • Introduction, Impact of Crisis, Role of Communication in Crisis, Guidelines for Handling Crisis, Trust Building <p>d) Financial Communication:</p> <ul style="list-style-type: none"> • Introduction, Tracing the Growth of Financial Communication in India, Audiences for Financial Communication, Financial Advertising

SN	Modules/ Units
4	Emerging Technology in Corporate Communication and Public Relations
	<p>a) Contribution of Technology to Corporate Communication</p> <ul style="list-style-type: none"> • Introduction, Today’s Communication Technology, Importance of Technology to Corporate Communication, Functions of Communication Technology in Corporate Communication, Types of Communication Technology, New Media: Web Conferencing, Really Simple Syndication (RSS) <p>b) Information Technology in Corporate Communication</p> <ul style="list-style-type: none"> • Introduction, E-media Relations, E-internal Communication, E-brand Identity and Company Reputation <p>c) Corporate Blogging</p> <ul style="list-style-type: none"> • Introduction, Defining Corporate Blogging, Characteristics of a Blog, Types of Corporate Blogs, Role of Corporate Blogs, Making a Business Blog

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Reference Books

Reference Books
Investment Analysis & Portfolio Management
<ul style="list-style-type: none"> • Kevin. S, <i>Security Analysis and Portfolio Management</i> • Donald Fischer & Ronald Jordon, <i>Security Analysis & Portfolio Management</i> • Prasanna Chandra, <i>Security Analysis & Portfolio Management</i> • Sudhindhra Bhatt, <i>Security Analysis and Portfolio Management.</i>
Commodity & Derivatives Market
<ul style="list-style-type: none"> • John C. Hull & Basu -<i>Futures, options & other derivatives</i> • Robert McDonald, <i>Derivatives market, Pearson education</i> • John Hull, <i>Fundamentals of futures & options</i> • Ankit Gala & Jitendra Gala, <i>Guide to Indian Commodity market, Buzzingstock publishing house</i> • K.Sasidharan & Alex K. Mathews, <i>Option trading – bull market strategies, McGraw Hill publication</i> • Niti Chatnani, <i>Commodity markets, McGraw Hill Publication</i> • S. Kevin, <i>Commodities & financial derivatives, PHI learning Pvt Ltd</i> • Suni K Parmeswaran, <i>Futures & options, McGraw Hill</i>
Wealth Management
<ul style="list-style-type: none"> • Harold Evensky, <i>Wealth Management, McGraw Hill Publication</i> • NCFM, CFP, IIBF, etc, <i>Wealth Management modules</i> • Harold Evensky, <i>The new wealth Management, CFA Institute Investment Series Publication</i>
Financial Accounting
<ul style="list-style-type: none"> • Ashish K. Bhattacharyya – “<i>Financial Accounting for Business Managers</i>”, Prentice Hall of India Pvt. Ltd. • Shashi K. Gupta – “<i>Contemporary Issues in Accounting</i>”, Kalyani Publishers. • R. Narayanaswamy – “<i>Financial Accounting</i>”, Prentice Hall of India, New Delhi • Ashok Sehgal – “<i>Fundamentals of Financial Accounting</i>”, Taxmann’s Publishers • <i>Financial Accounting Reporting – Barry Elliot and Jamie Elliot – Prentice Hall (14th Edition)</i>
Risk Management
<ul style="list-style-type: none"> • Thomas S. Coleman, <i>Quantitative Risk Management : A Practical Guide to Financial Risk</i> • Steve Peterson, <i>Investment Theory and Risk Management</i> • <i>Risk Management , M/s Macmillan India Limited</i> • <i>Theory & Practice of Treasury Risk Management: M/s Taxman Publications Ltd.</i> • Sim Segal, <i>Corporate Value of ERM</i> • Dr. G Kotreshwar, <i>Risk Management : Insurance and Derivatives, Himalaya Publishing House</i>
Direct Taxes
<ul style="list-style-type: none"> • <i>Income Tax Act- Bare act</i> • <i>Dr V K Singhania-Direct Tax Law & Practice</i>

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Reference Books

Reference Books
<p>Services Marketing</p> <ul style="list-style-type: none"> • Valarie A. Zeuhaml & Mary Jo Bitner, <i>Service Marketing</i>, Tata McgrawHill, 6th Edition • Christopher Lovelock, Jochen Wirtz, Jayanta Chatterjee, <i>Service Marketing People, Technology, Strategy – A South Asian Perspective</i>, Pearson Education, 7th Edition • Ramneek Kapoor, Justin Paul & Biplab Halder, <i>Services Marketing-Concepts And Practices</i>, McgrawHill, 2011 • Harsh V. Verma, <i>Services Marketing Text & Cases</i>, Pearson Education, 2nd Edition • K. Ram Mohan Rao, <i>Services Marketing</i>, Pearson Education, 2nd Edition, 2011 • C. Bhattacharjee, <i>Service Sector Management</i>, Jaico Publishing House, Mumbai, 2008 • Govind Apte, <i>Services Marketing</i>, Oxford Press, 2004
<p>E-Commerce & Digital Marketing</p> <ul style="list-style-type: none"> • D Nidhi, <i>E-Commerce Concepts and Applications</i>, Edn 2011, International Book house P. Ltd • Bajaj Kamlesh K, <i>E-Commerce- The cutting edge of Business</i> • Whiteley David, <i>E-Commerce Technologies and Applications-2013</i> • <i>E-Business & E-Commerce Management 3rd Ed</i>, Pearson Education • Kalokota & Robinson, <i>E-Business 2.0 Road map for Success</i>, Pearson Education • Elias M. Awad, <i>Electronic Commerce, 3rd Edition</i>, Pearson Education • Erfan Turban et. al, <i>Electronic Commerce - A Managerial Perspective</i>, Pearson Education • R. Kalokota, Andrew V. Winston, <i>Electronic Commerce - A Manger's Guide</i>, Pearson Education • Tripathi, <i>E-Commerce</i>, Jaico Publishing House, Mumbai, Edn. 2010.
<p>Sales & Distribution Management</p> <ul style="list-style-type: none"> • A. Nag, <i>Sales And Distribution Management</i>, Mcgraw Hill, 2013 Edition • Richard R. Still, Edward W. Cundiff, Norman A.P. Govoni, <i>Sales Management</i>, Pearson Education, 5th Edition • Krishna K. Havaldar, Vasant M. Cavale, <i>Sales And Distribution Management – Text & Cases</i>, Mcgraw Hill Education, 2nd Edition, 2011 • Dr. Matin Khan, <i>Sales And Distribution Management</i>, Excel Books, 1st Edition • Kotler & Armstrong, <i>Principles Of Marketing – South Asian Perspective</i>, Pearson Education, 13th Edition
<p>Customer Relationship Management</p> <ul style="list-style-type: none"> • Baran Roger J. & Robert J. Galka (2014), <i>Customer Relationship Management: The Foundation of Contemporary Marketing Strategy</i>, Routledge Taylor & Francis Group. • Andersson Kristin and Carol Kerr (2002), <i>Customer Relationship Management</i>, Tata McGraw-Hill. • Ed Peelen, <i>Customer Relationship Management</i>, Pearson Education • Bhasin Jaspreet Kaur (2012), <i>Customer Relationship Management</i>, Dreamtech Press. • Judith W. Kincaid (2006), <i>Customer Relationship Management Getting it Right</i>, Pearson Education. • Jill Dyche' (2007), <i>The CTM Handbook: A Business Guide to Customer Relationship Management</i>, Pearson Education. • Valarie A Zeithmal, Mary Jo Bitner, Dwayne D Gremler and Ajay Pandit (2010), <i>Services Marketing Integrating Customer Focus Across the Firm</i>, Tata McGraw Hill. • Urvashi Makkar and Harinder Kumar Makkar (2013), <i>CRM Customer Relationship Management</i>, McGraw Hill Education.

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Reference Books

Reference Books
Industrial Marketing
<ul style="list-style-type: none"> • <i>Industrial Marketing: A practices in India</i> by S.L. Gupta, Sanjeev Bahadur, and Hitesh Gupta: Excel Books (First Edition) • <i>Industrial Marketing</i> by Hory, Sankar and Mukerjee by Excel Books (First Edition) • <i>Industrial Marketing: A Process of Creating and Maintaining Exchange</i> by Krishnamacharyulu , Lalitha R, Publisher: Jaico Book House • <i>Industrial Marketing</i> by Ghosh, Publisher: Oxford University Press • <i>Industrial Marketing</i> by K. K. Havaldar, Publisher: Tata McGraw-Hill Publishing Company limited • <i>Industrial Marketing Management</i> by Govindarajan, Publisher: Vikas Publishing House Pvt. Ltd. • <i>Industrial Marketing</i> by Phadtare M. T, Publisher: Prentice Hall of India Private Limited
Strategic Marketing Management
<ul style="list-style-type: none"> • Alexander Chernav, <i>Strategic management, Eight Edition</i> ,June 2014,Cerebellum press • Richardn m.s Wilson, Collin Gilligan, <i>Strategic marketing management,3rd edition</i>, Elsevier • Subhash .C.Jain, <i>Marketing Strategy, India edition</i>, cengage learning • Sharan Jagpal, <i>Marketng strategy</i>, oxford university press • David A. Aker, <i>Startegic Market Management</i>, John Wiley & Sons, 2001 • Philip Kotler, Kevin Keller, Abraham Koshy, Mithileshwar Jha, <i>Marketing Management</i>, Pearson, 13th edition
Finance for HR Professionals & Compensation Management
<ul style="list-style-type: none"> • Gary Dessler, Biju Varkkey, <i>Human Resource Management</i>, Pearson, 12th edition • Mick Marchington and Adrian Wilkinson, <i>Human Resource Management at Work – People Management and Development- IIIrd Edition</i>, • Shashi K. Gupta, Rosy Joshi, <i>Human Resource Management</i>, Kalyani Publishers • Gary Dessler, <i>Framework for HRM, 3rd Edition</i>, Pearson Education • Ashwathappa, <i>Human Resource Management</i> • Luis.R.Gomez, David.B.Balkin, Robert. L. Cardy, <i>Managing Human Resources – IVth Edition</i>, (Eastern Economy Edition) • Milkovich, George T, Newman J.M, <i>Compensation</i>, Tata Mc Graw Hill. • Henderson, R.O, <i>Compensation Management</i>, Pearson Edition . • BD Singh, <i>Compensation and Reward Management</i>, Excel Books. • Karen Permant, Joe Knight, <i>Financial Intelligence for HR Professionals</i> • Sharma A.M, <i>Understanding Wage system</i>, Himalaya Publishing House, Mumbai.
Strategic Human Resource Management & HR Policies
<ul style="list-style-type: none"> • Michael Armstrong, Angela Baron, <i>Handbook of Strategic HRM</i>, Jaico publishing House • Armstrong M.-<i>Strategic Human Resource Management_ A Guide to Action</i> (2006) • <i>Strategic Human Resource Management</i>, Tanuja Agarwal • <i>Strategic Human Resource Management</i>, Jeffrey A. Mello • Gary Dessler, <i>Human Resource Management</i>, PHI, New Delhi, 2003 • Charles R. Greer, <i>Strategic Human Resource Management</i>, Pearson Education, 2003 • Rajib Lochan Dhar, <i>Strategic Human Resource Management</i>, Excel Books, NewDelhi, 2008

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Reference Books

Reference Books
Performance Management & Career Planning
<ul style="list-style-type: none"> • Shashi K. Gupta, Rosy Joshi, <i>Human Resource Management</i>, Kalyani Publishers • Armstrong, Michael, Baron, <i>Performance Management</i>, Jaico Publishers • Robert Bacal, <i>Performance Management</i>, McGraw-Hill Education, 2007 • T.V. Rao, <i>Performance Management and Appraisal Systems: HR Tools for Global Competitiveness</i>, Response Books, New Delhi, 2007. • Davinder Sharma, <i>Performance Appraisal and Management</i>, Himalaya Publishing House. • A.S. Kohli, T. Deb, <i>Performance Management</i>, Oxford University Press. • Herman Aguinis, <i>Performance Management</i>, Second edition, Pearson Education.
Industrial Relations
<ul style="list-style-type: none"> • Davar R S: <i>Personnel Management and Industrial Relations in India</i> • Mamoria C B: <i>Industrial Relations</i> • Charles Myeres: <i>Industrial Relations in India</i> • Arun Monappa: <i>Industrial Relations</i> • Sharma A M : <i>Industrial Relations</i> • Ahuja K K : <i>Industrial Relations Theory and Practice</i> • C.S. Vekata Ratnam : <i>Globalisation and Labour-Management Relations</i> • Srivastava K D: <i>Laws relating to Trade Unions and Unfair Labour Practice</i> • A.M.Sarma: <i>A conceptual and legal frame work</i> • Farnham, David and John Pimlot, <i>Understanding Industrial Relations</i>, London: Cassell • Ratna Sen, <i>Industrial Relations in India, Shifting Paradigms</i>, Macmillan India Ltd., New Delhi, 2009. • C.S.Venkata Ratnam, <i>Globalisation and Labour Management Relations</i>, Response Books, 2010. • Srivastava, <i>Industrial Relations and Labour Laws</i>, Vikas, 6 th edition, 2012. • P.R.N Sinha, Indu Bala Sinha, Seema Priyadarshini Shekhar. <i>Industrial Relations, Trade Unions and Labour Legislation</i>. • Srivastava, S. C. : <i>Industrial Relations and Labour Laws</i>, Vikas Publishing House Pvt Ltd, New Delhi. • Sinha, P.R.N., Sinha, Indu Bala and Shekhar, Seema Priyadarshini <i>Industrial Relations, Trade Unions and Labour Legislation</i>, Pearson Education, New Delhi.
Talent & Competency Management
<ul style="list-style-type: none"> • Dessler Gary, <i>A Framework for Human Resource Management</i>, Pearson Publication, 7th Edition. • Dessler Gary, Varkkey Biju, <i>Fundamentals of Human Resource Management</i>, Pearson Publication, 14th Edition • Rao VSP, <i>Human Resource Management</i>, Vikas Publishing, New Delhi • K. Aswathappa – <i>Human Resources and Personnel Management</i>, Tata McGraw Hill • Robbins SP, Timothy A, Judge & Sanghi Seema, <i>Organizational Behaviour</i>, Pearson Education, New Delhi, 13th edition. • Lance A Berger, Dorothy R Berger, <i>Talent Management Hand Book</i>, McGraw Hill • Hasan, M., Singh, A. K., Dhamija, S. (eds.), <i>Talent management in India: Challenges and opportunities</i>, Atlantic Publication • Seema Sanghi: <i>The Handbook of Competency Mapping: Understanding, Designing and Implementing Competency Models in Organizations</i>, Sage Publishing

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Reference Books

Reference Books
Stress Management
<ul style="list-style-type: none"> • <i>Stress management by Susan R. Gregson</i> • <i>Stress management: Leading to Success By B Hiriyappa</i> • <i>Strategic Stress Management: An Organizational Approach by V. Sutherland, C. Cooper</i> • <i>Stress Management: An Integrated Approach to Therapy by Dorothy H.G. Cotton</i> • <i>Stress Management by A. K. Rai</i> • <i>Organizational Stress Management: A Strategic Approach By A. Weinberg, V. Sutherland, C. Cooper</i> • <i>Stress Management by Dr. Nivedita</i>
Logistics and Supply Chain Management
<ul style="list-style-type: none"> • <i>David Simchi Levi, Philip Kaminshy, Edith Simchi Levi, Designing & Managing the Supply Chain - Concepts, Strategies and Case Studies Logistics</i> • <i>Donald Waters, An Introduction to Supply Chain</i> • <i>Martin Christopher, Logistics & Supply Chain Management - Strategies for Reducing Cost & Improving Services</i> • <i>Vinod Sople, Logistic Management - The Supply Chain Imperative</i> • <i>Donald J Bowersox & David J Closs, Logistic Management - The Integrated Supply Chain Process</i> • <i>Alan Rushton, Phil Croucher, Peter Baker, The Handbook of Logistics and Distribution Management- Understanding the Supply Chain</i> • <i>Donald J. Bowersox & David J Closs, Logistical Management-The Integrated Supply Chain Process, McGraw Hill Education</i> • <i>Ronald H Ballou & Samir K Srivastava, Business Logistics/ Supply Chain Management- Pearson</i> • <i>Donald J Bowersox, David J Closs & M Bixby Cooper, Supply Chain Logistics Management- The McGraw Hill Companies</i>
Corporate Communication & Public Relations
<ul style="list-style-type: none"> • <i>Richard R. Dolphin, The Fundamentals of Corporate Communication</i> • <i>Joep Cornelissen, Corporate Communications: Theory and Practice</i> • <i>James L.Horton,Integrating Corporate Communication:The Cost Effective Use of Message & Medium</i> • <i>Sandra Oliver, Handbook of Corporate Communication & Public Relations A Cross-Cultural Approach</i> • <i>Rosella Gambetti, Stephen Quigley, Managing Corporate Communication</i> • <i>Joseph Fernandez, Corporate Communications: A 21st Century Primer</i> • <i>C.B.M. van Riel, Chris Blackburn, Principles of Corporate Communication</i> • <i>Jaishri Jethwaney, Corporate Communication: Principles and Practice</i>

Bachelor of Management Studies (BMS)
Programme
Under Choice Based Credit, Grading and Semester System
Course Structure

(To be implemented from Academic Year- 2018-2019)

Semester VI

No. of Courses	Semester VI	Credits
1	<i>Elective Courses (EC)</i>	
1,2,3 & 4	**Any four courses from the following list of the courses	12
2	<i>Core Course (CC)</i>	
5	Operation Research	04
3	<i>Ability Enhancement Course (AEC)</i>	
6	Project Work	04
Total Credits		20

** List of group of Elective Courses(EC)for Semester VI (Any Four)	
Group A: Finance Electives (Any four Courses)	
1	International Finance
2	Innovative Financial Services
3	Project Management
4	Strategic Financial Management
5	Financing Rural Development
6	Indirect Taxes
Group B: Marketing Electives (Any four Courses)	
1	Brand Management
2	Retail Management
3	International Marketing
4	Media Planning & Management
5	Sports Marketing
6	Marketing of Non Profit Organisation
Group C: Human Resource Electives (Any four Courses)	
1	HRM in Global Perspective
2	Organisational Development
3	HRM in Service Sector Management
4	Workforce Diversity
5	Human Resource Accounting & Audit
6	Indian Ethos in Management

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Elective Courses (EC)

Group A: Finance Electives

1. International Finance

Modules at a Glance

SN	Modules	No. of Lectures
1	Fundamentals of International Finance	15
2	Foreign Exchange Markets, Exchange Rate Determination & Currency Derivatives	15
3	World Financial Markets & Institutions & Risks	15
4	Foreign Exchange Risk, Appraisal & Tax Management	15
Total		60

Objectives

SN	Objectives
1	The objective of this course is to familiarize the student with the fundamental aspects of various issues associated with International Finance
2	The course aims to give a comprehensive overview of International Finance as a separate area in International Business
3	To introduce the basic concepts, functions, process, techniques and create an awareness of the role, functions and functioning of International Finance in this Globalised Market

SN	Modules/ Units
1	Fundamentals of International Finance
	<p>a) Introduction to International Finance:</p> <ul style="list-style-type: none"> • Meaning/ Importance of International Finance, Scope of International Finance, Globalization of the World Economy, Goals of International Finance, The Emerging Challenges in International Finance <p>b) Balance of Payment:</p> <ul style="list-style-type: none"> • Introduction to Balance of Payment, Accounting Principles in Balance of Payment, Components of Balance of Payments, Balance of Payment Identity Indian Heritage in Business, Management, Production and Consumption. <p>c) International Monetary Systems:</p> <ul style="list-style-type: none"> • Evolution of International Monetary System , Gold Standard System , Bretton Woods System, Flexible Exchange Rate Regimes – 1973 to Present, Current Exchange Rate Arrangements, European Monetary System, Fixed & Flexible Exchange Rate System <p>d) An introduction to Exchange Rates:</p> <ul style="list-style-type: none"> • Foreign Bank Note Market, Spot Foreign Exchange Market • Exchange Rate Quotations <ul style="list-style-type: none"> ▪ Direct & Indirect Rates ▪ Cross Currency Rates ▪ Spread & Spread % • Factors Affecting Exchange Rates
2	Foreign Exchange Markets, Exchange Rate Determination & Currency Derivatives
	<p>a) Foreign Exchange Markets:</p> <ul style="list-style-type: none"> • Introduction to Foreign Exchange Markets, Structure of Foreign Exchange Markets, Types of Transactions & Settlement Date, Exchange Rate Quotations & Arbitrage, Forward Quotations (Annualized Forward Margin) <p>b) International Parity Relationships & Foreign Exchange Rate:</p> <ul style="list-style-type: none"> • Interest Rate Parity, Purchasing Power Parity & Fishers Parity, Forecasting Exchange Rates (Efficient Market Approach, Fundamental Approach, Technical Approach, Performance of the Forecasters), Global Financial Markets & Interest Rates (Domestic & Offshore Markets, Money Market Instruments) <p>c) Currency & Interest Rate Futures:</p> <ul style="list-style-type: none"> • Introduction to Currency Options (Option on Spot, Futures & Futures Style Options), Futures Contracts, Markets & the Trading Process, Hedging & Speculation with Interest Rate Futures, Currency Options in India

SN	Modules/ Units
3	World Financial Markets & Institutions & Risks
	<p>a) Euro Currency Bond Markets:</p> <ul style="list-style-type: none"> • Introduction to Euro Currency Market, Origin of Euro Currency Market, Euro Bond Market (Deposit, Loan, Notes Market), Types of Euro Bonds, Innovation in the Euro Bond Markets, Competitive Advantages of Euro Banks, Control & Regulation of Euro Bond Market <p>b) International Equity Markets & Investments:</p> <ul style="list-style-type: none"> • Introduction to International Equity Market, International Equity Market Benchmarks, Risk & Return from Foreign Equity Investments, Equity Financing in the International Markets, Depository Receipts – ADR,GDR,IDR <p>c) International Foreign Exchange Markets:</p> <ul style="list-style-type: none"> • Meaning of International Foreign Exchange Market, FERA v/s FEMA, Scope & Significance of Foreign Exchange Markets, Role of Forex Manager, FDI v/s FPI, Role of FEDAI in Foreign Exchange Market <p>d) International Capital Budgeting:</p> <ul style="list-style-type: none"> • Meaning of Capital Budgeting, Capital Budgeting Decisions, Incremental Cash Flows, Cash Flows at Subsidiary and Parent Company, Repatriation of Profits, Capital Budgeting Techniques – NPV
4	Foreign Exchange Risk, Appraisal & Tax Management
	<p>a) Foreign Exchange Risk Management:</p> <ul style="list-style-type: none"> • Introduction to Foreign Exchange Risk Management, Types of Risk, Trade & Exchange Risk, Portfolio Management in Foreign Assets, Arbitrage & Speculation <p>b) International Tax Environment:</p> <ul style="list-style-type: none"> • Meaning of International Tax Environment, Objectives of Taxation, Types of Taxation, Benefits towards Parties doing Business Internationally, Tax Havens, Tax Liabilities <p>c) International Project Appraisal:</p> <ul style="list-style-type: none"> • Meaning of Project Appraisal, Review of Net Present Value Approach (NPV), Option Approach to Project Appraisal, Project Appraisal in the International Context, Practice of Investment Appraisal

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Elective Courses (EC)

Group A: Finance Electives

2. Innovative Financial Services

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Traditional Financial Services	15
2	Issue Management and Securitization	15
3	Financial Services and its Mechanism	15
4	Consumer Finance and Credit Rating	15
Total		60

Objectives

SN	Objectives
1	To familiarize the learners with the fundamental aspects of various issues associated with various Financial Services
2	To give a comprehensive overview of emerging financial services in the light of globalization
3	To introduce the basic concepts, functions, process, techniques and create an awareness of the role, functions and functioning of financial services

SN	Modules/ Units
1	Introduction to Traditional Financial Services
	<p>a) Financial Services:</p> <ul style="list-style-type: none"> • Concept, Objectives/Functions, Characteristics, Financial Service Market, Financial Service Market Constituents, Growth of Financial Services in India, Problems in Financial Services Sector, Banking and Non-Banking Companies, Regulatory Framework <p>b) Factoring and Forfaiting:</p> <ul style="list-style-type: none"> • Introduction, Types of Factoring, Theoretical Framework, Factoring Cost, Advantages and Disadvantages of Factoring, Factoring in India, Factoring v/s Forfaiting, Working of Forfaiting, Benefits and Drawbacks of Forfaiting, Practical Problems. <p>c) Bill Discounting:</p> <ul style="list-style-type: none"> • Introduction, Framework, Bill Market Schemes, Factoring V/s Bill Discounting in Receivable Management.
2	Issue Management and Securitization
	<p>a) Issue Management and Intermediaries:</p> <ul style="list-style-type: none"> • Introduction, Merchant Bankers/ Lead Managers, Underwriters, Bankers to an Issue, Brokers to an Issue <p>b) Stock Broking:</p> <ul style="list-style-type: none"> • Introduction, Stock Brokers, SubBrokers, Foreign Brokers, Trading and Clearing/Self Clearing Members, Stock Trading (Cash and Normal) Derivative Trading <p>c) Securitization:</p> <ul style="list-style-type: none"> • Definition, Securitization v/s Factoring, Features of Securitization, Pass Through Certificates, Securitization Mechanism, Special Purpose Vehicle, Securitisable Assets, Benefits of Securitization, New Guidelines on Securitization
3	Financial Services and its Mechanism
	<p>a) Lease and Hire-Purchase:</p> <ul style="list-style-type: none"> • Meaning, Types of Lease - Finance Lease, Operating Lease, Advantages and Disadvantages of Leasing, Leasing in India, Legal Aspects of Leasing. • Definition of Hire Purchase, Hire Purchase and Installment Sale Characteristics, Hire Purchase and Leasing, Advantages of Hire Purchase, Problems of Hire Purchase. <p>b) Housing Finance:</p> <ul style="list-style-type: none"> • Introduction, Housing Finance Industry, Housing Finance Policy Aspect, Sources of Funds, Market of Housing Finance, Housing Finance in India- Major Issues, Housing Finance in India – Growth Factors, Housing Finance Institutions in India, National Housing Bank (NHB), Guidelines for Asset Liability Management System in HFC, Fair Trade Practice Code for HFC's, Housing Finance Agencies

SN	Modules/ Units
	<p>c) Venture Capital: Introduction, Features of Venture Capital, Types of Venture Capital Financing Stages, Disinvestment mechanisms, Venture Capital Investment process, Indian Scenario</p>
4	<p>Consumer Finance and Credit Rating</p>
	<p>a) Consumer Finance:</p> <ul style="list-style-type: none"> • Introduction, Sources, Types of Products, Consumer Finance Practice in India, Mechanics of Consumer Finance, Terms, Pricing, Marketing and Insurance of Consumer Finance, Consumer Credit Scoring, Case for and against Consumer Finance <p>b) Plastic Money:</p> <ul style="list-style-type: none"> • Growth of Plastic Money Services in India, Types of Plastic Cards- Credit card- Debit Card- Smart card- Add-on Cards, Performance of Credit Cards and Debit Cards, Benefits of Credit Cards, Dangers of Debit Cards, Prevention of Frauds and Misuse, Consumer Protection. Indian Scenario. • Smart Cards- Features, Types, Security Features and Financial Applications <p>c) Credit Rating:</p> <ul style="list-style-type: none"> • Meaning, Origin, Features, Advantages of Rating, Regulatory Framework, Credit Rating Agencies, Credit Rating Process, Credit Rating Symbols. Credit Rating Agencies in India, Limitations of Rating

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Elective Courses (EC)

Group A: Finance Electives

3. Project Management

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Project Management & Project Initiation	15
2	Analyzing Project Feasibility	15
3	Budgeting, Cost & Risk Estimation in Project Management	15
4	New Dimensions in Project Management	15
	Total	60

Objectives

SN	Objectives
1	The objective of this course is to familiarize the learners with the fundamental aspects of various issues associated with Project Management
2	To give a comprehensive overview of Project Management as a separate area of Management
3	To introduce the basic concepts, functions, process, techniques and create an awareness of the role, functions and functioning of Project Management

SN	Modules/ Units
1	<p>Introduction to Project Management & Project Initiation</p> <p>a) Introduction to Project Management:</p> <ul style="list-style-type: none"> • Meaning/Definition of Project & Project Management, Classification of Projects, Why Project Management, Characteristics/Importance of Project Management, Need for Project Management (Objectives), History of Project Management <p>b) Organizational Structure (Project Organization):</p> <ul style="list-style-type: none"> • Meaning/Definition of Organizational Structure, Organizational Work Flow, Developing Work Integration Positions, Types of Organizational Structure, Forms of Organization, Strategic Business Units (SBU) in Project Management. <p>c) Project Initiation:</p> <ul style="list-style-type: none"> • Project Selection-Meaning of Project Selection, Importance of Project Selection, Criteria for Project Selection (Models), Types of Project Selection, Understanding Risk & Uncertainty in Project Selection • Project Manager-Meaning of Project Manager, Role of Project Manager, Importance of Project Manager, Role of Consultants in Project Management, Selecting Criteria for Project Manager • Project Planning-Importance of Project Planning, Functions of Project Planning, System Integration, Project Management Life Cycle, Conflicts & Negotiation Handling in Project Management, Planning Cycle & Master Production Scheduling
2	<p>Analyzing Project Feasibility</p> <p>a) Project Feasibility Analysis:</p> <ul style="list-style-type: none"> • Meaning/Definition of Project Feasibility, Importance of Project Feasibility, Scope of Project Feasibility • Types of Project Feasibility- Market Feasibility, Technical Feasibility, Financial Feasibility, Economic Viability, Operational Feasibility • SWOT Analysis (Environment Impact Assessment, Social Cost Benefit Analysis) <p>b) Market Analysis:</p> <ul style="list-style-type: none"> • Meaning of Market Analysis, Demand Forecasting, Product Mix Analysis, Customer Requirement Analysis <p>c) Technical Analysis:</p> <ul style="list-style-type: none"> • Meaning of Technical Analysis, Use of Various Informational Tools for Analyzing, Advancement in the Era of E- Commerce in Project Management <p>d) Operational Analysis:</p> <ul style="list-style-type: none"> • Meaning of Operation Management, Importance of Operation Management, Operation Strategy - Levels of Decisions, Production Planning & Control, Material Management - Work Study & Method Study, Lean Operations

SN	Modules/ Units
3	Budgeting, Cost & Risk Estimation in Project Management
	<p>a) Funds Estimation in Project:</p> <ul style="list-style-type: none"> • Means of Financing, Types of Financing, Sources of Finance, Government Assistance towards Project Management for Start ups, Cost Control (Operating Cycle, Budgets & Allocations), Determining Financial Needs for Projects, Impact of Leveraging on Cost of Finance <p>b) Risk Management in Projects:</p> <ul style="list-style-type: none"> • What is Risk, Types of Risk in Projects, Risk Management Process, Risk Analysis & Identification, Impact of Risk Handling Measures, Work break Down Structure, New Venture Valuation (Asset Based, Earnings Based, Discounted Cash flow Models) <p>c) Cost Benefit Analysis in Projects</p> <ul style="list-style-type: none"> • Introduction to Cost Benefit Analysis, Efficient Investment Analysis, Cash - Flow Projections, Financial Criteria for Capital Allocation, Strategic Investment Decisions
4	New Dimensions in Project Management
	<p>a) Modern Development in Project Management:</p> <ul style="list-style-type: none"> • Introduction to Modern Development in Project Management, Project Management Maturity Model (PMMM), Continuous Improvement, Developing Effective Procedural Documentation, Capacity Planning <p>b) Project Monitoring & Controlling:</p> <ul style="list-style-type: none"> • Introduction to Project Monitoring & Controlling, The Planning – Monitoring-Controlling Cycle, Computerized Project Management Information System (PMIS), Balance in Control System in Project Management, Project Auditing – Life Cycle <p>c) Project Termination & Solving Project Management Problems:</p> <ul style="list-style-type: none"> • Meaning of Project Termination, Reasons for Termination of Projects, Process for Terminating Projects, Strategy/ Ways to Solve Project Management Problems, Project Review & Administrative Aspects, Execution Tools for Closing of Projects

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Elective Courses (EC)

Group A: Finance Electives

4. Strategic Financial Management

Modules at a Glance

SN	Modules	No. of Lectures
1	Dividend Decision and XBRL	15
2	Capital Budgeting and Capital Rationing	15
3	Shareholder Value and Corporate Governance/ Corporate Restructuring	15
4	Financial Management in Banking Sector and Working Capital Financing	15
Total		60

Objectives

SN	Objectives
1	To match the needs of current market scenario and upgrade the learner's skills and knowledge for long term sustainability
2	Changing scenario in Banking Sector and the inclination of learners towards choosing banking as a career option has made study of financial management in banking sector inevitable
3	To acquaint learners with contemporary issues related to financial management

SN	Modules/ Units
1	Dividend Decision and XBRL
	<p>a) Dividend Decision:</p> <ul style="list-style-type: none"> • Meaning and Forms of Dividend, Dividend-Modigliani and Miller’s Approach, Walter Model, Gordon Model, Factors determining Dividend Policy, Types of Dividend Policy <p>b) XBRL:</p> <ul style="list-style-type: none"> • Introduction, Advantages and Disadvantages, Features and Users
2	Capital Budgeting and Capital Rationing
	<p>a) Capital Budgeting:</p> <ul style="list-style-type: none"> • Risk and Uncertainty in Capital Budgeting, Risk Adjusted Cut off Rate, Certainty Equivalent Method, Sensitivity Technique, Probability Technique, Standard Deviation Method, Co-efficient of Variation Method, Decision Tree Analysis, Construction of Decision Tree. <p>b) Capital Rationing:</p> <ul style="list-style-type: none"> • Meaning, Advantages, Disadvantages, Practical Problems
3	Shareholder Value and Corporate Governance/Corporate Restructuring
	<p>a) Shareholder Value and Corporate Governance:</p> <ul style="list-style-type: none"> • Financial Goals and Strategy, Shareholder Value Creation: EVA and MVA Approach, Theories of Corporate Governance, Practices of Corporate Governance in India <p>b) Corporate Restructuring:</p> <ul style="list-style-type: none"> • Meaning, Types, Limitations of Merger, Amalgamation, Acquisition, Takeover, Determination of Firm’s Value, Effect of Merger on EPS and MPS, Pre Merger and Post Merger Impact.
4	Financial Management in Banking Sector and Working Capital Financing
	<p>a) Financial Management in Banking Sector:</p> <ul style="list-style-type: none"> • An Introduction, Classification of Investments, NPA & their Provisioning, Classes of Advances, Capital Adequacy Norms, Rebate on Bill Discounting, Treatment of Interest on Advances <p>b) Working Capital Financing:</p> <ul style="list-style-type: none"> • Maximum Permissible Bank Finance (Tandon Committee), Cost of issuing Commercial Paper and Trade Credit, Matching Approach, Aggressive Approach, Conservative Approach

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**Elective Courses (EC)
Group A: Finance Electives**

5. Financing Rural Development

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Rural Banking	10
2	Micro Finance	15
3	MSME Finance	10
4	Final Accounts of the Banking Companies	15
5	Risk Management in Rural Finance	10
Total		60

Objectives

SN	Objectives
01	To acquaint the learners with the concept of rural banking
02	To give an overview of micro finance and MSME finance
03	To study the provisions of final accounts of the Banking Companies
04	To understand risk management in rural finance

Sr. No.	Modules / Units
1	Rural Banking
	<p>Rural India – Demographic Features, Characteristics of Rural Society, Economic Features, Infrastructure in Rural Areas, Agriculture Economy, Rural Issues and Rural Development Policies, Sources and Pattern of agriculture in India, Trends in Agricultural Finance.</p> <p>Institutional Framework – Regulation of Rural Financial Services, Rural Credit Institutions, Financing Agriculture/ Allied Activities, Financing Rural Non Farm Sector, Priority Sector Lending, Rural Housing and Education Loans.</p> <p>Rural Banking – Financial Needs of the Poor, Role of Rural Banking, Transaction Costs, Risk Costs, Financing Poor as Bankable Opportunities Micro Credit and Self Help Groups.</p>
2	Micro Finance
	<p>Introduction – Emergence of Microfinance, Definition, Meaning and Scope, Importance and Assumptions. Lessons from International Experience.</p> <p>Models – Models of Microfinance across the world, Portfolio Securitization, SHG-2, National Rural Livelihood Mission, Impact of Microfinance, Impact Assessment and Monitoring, Microfinance and Poverty Assessment Tools.</p> <p>Financial Products and Services – Objectives, Introduction, The role of MFI – Minimalist V/s Integrated, Financial services/ products, Non – Financial Services, Designing Microfinance Models, Liquidity Management, The Revenue Model of an MFI, Cost, Volume and Profit Analysis, Measuring Operating Efficiency and Productivity in MFI's, Factors affecting Operating Expenses, Operating Efficiency.</p>
3	MSME Finance
	<p>Institutional Framework – Central Government, NIMSME, Indian Institute of Entrepreneurship Guwahati, NIESBUD, NSIC, Organizations under the control of State Government, SIDBI, CGTMSE, SMERA, SSI Association in India, Changing Role of MSME Associations , Policy Orientation & Resource Allocation.</p> <p>Financing Options & Modes – Financing MSME, Why lend to MSME Sector, Debt Finance, Equity Finance, Options for Financing MSME's, Financial Products and their Access, Existing MSME Loan Products and their Nature, Common Guidelines for lending to MSME Sector, Factoring, Credit Process, Credit Assessment, Costs and Risks specific to MSME Lending, Risk Rating, Monitoring and Review of Lending.</p>
4	Final Accounts of the Banking Companies
	<p>Legal Provision in Banking Regulation Act, 1949 relating to Accounts. Statutory reserves including Cash Reserve and Statutory Liquidity Ratio. Bill purchase and discounted, Rebate of Bill Discounted.</p> <p>Final Accounts in prescribed form</p> <p>Non – performing assets and Income from non – performing assets, Classification of Advances, standard, sub – standard, doubtful and provisioning requirement.</p>
5	Risk Management in Rural Finance
	<p>An Introduction –Objectives, Introduction , Types of risks for MFI's, Risk Management Framework for MFI's Indicators of Credit Risk, Portfolio at Risk (PAR), Causes of high Credit Risk , Impact of Delinquencies, Managing Credit Risk, Transaction Risk, Process, System & Technology, Relationship and Portfolio Risk. Cash Planning and Co-ordination between Operation Manager and Finance Manager. Compliance to State Acts, Revised Guidelines on Priority Sector, Compliance to RBI Guidelines on NBFC – MFI's, Self Regulation.</p>

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**Elective Courses (EC)
Group A: Finance Electives**

6. Indirect Taxes

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Indirect Taxation and GST	10
2	Concept of Supply	20
3	Registration and Computation of GST	20
4	Filing of Returns	10
Total		60

Objectives

SN	Objectives
01	To understand the basics of GST
02	To study the registration and computation of GST
03	To acquaint the students with filing of returns in GST

Sr. No.	Modules / Units
1	<p>Introduction to Indirect Taxation and GST</p> <p>A. Basics for Taxation - Direct Taxes and Indirect Taxes – Difference, Advantages and Disadvantages, Sources and Authority of Taxes in India (Art 246 of the Indian Constitution)</p> <p>B. Introduction to GST – Genesis of GST in India, Power to tax GST (Constitutional Provisions), Extent and Commencement, Meaning and Definition of GST, Benefits of GST, Conceptual Framework – CGST, IGST,SGST,UTGST, Imports of goods or services or both, Export of goods or services or both, Taxes subsumed and not subsumed under GST.</p> <p>C. Definitions – Goods (2(52) of CGST Act), Services (2(102) of CGST Act), Money (2(75) of CGST Act), Securities (2(101) of SCRA Act,1956), India(2(56) of CGST Act), Persons (2(84) of CGST Act),Taxable Person (2(107) of CGST Act), Business (2(17) of CGST Act), Consideration(2(31) of CGST Act), E- Commerce Operator (2(45) of CGST Act), Supplier(2(105) of CGST Act),Recipient(2(93) of CGST Act)</p> <p>D. Levy and Collection of GST – Levy and Collection of CGST, IGST, SGST,UTGST (Sec 9 of CGST Act), Composition Scheme under GST (Sec 10 of CGST Act), Power to Grant Exemption (Sec 11 of CGST Act)GST Rate Schedule for Goods and Services.</p>
2	<p>Concept of Supply</p> <p>A. Taxable Event Supply– Meaning and Scope of Supply (Section 7 Subsection 1, 2 and 3 of Act) Schedule I, Schedule II, Schedule III, Composite and Mixed Supplies (Sec 8 of CGST Act)</p> <p>B. Place of Supply – Location of Supplier of Goods and Services, Place of Supply of Goods (Sec 10, 11,12 and 13 of IGST Act), Special Provision for Payment of Tax by a Supplier of Online Information Database Access Retrieval.</p> <p>C. Time of Supply- Time of Supply (Sec 31 of CGST Act), Issue of Invoice by the Supplier (Sec 31 (1) and Sec 31(2)of CGST Act), Continuous Supply of Goods and Services, Goods Sent on Approval (Sec 31(7) of CGST Act)</p> <p>D. Value of Supply – Determination of Value of Supply (Sec 15 of CGST Act and CGST Rules 2017), Input Tax Credit (Sec 2(62) of CGST Act) Capital Goods (Sec 2(19) of CGST Act), Input Sec 2(59) of CGST Act), Input Service (Sec 2(60) of CGST Act). Eligibility and Conditions for taking Input Tax Credit (Sec 16 of CGST Act)</p>
3	<p>Registration and Computation of GST</p> <p>A. Registration – Persons liable for Registration (Sec 22 of the Act), Persons not liable for Registration, Procedure for Registration (Sec 25 of the Act), Deemed Registration(Sec 26 of the Act), Special Provisions (Sec 27 of the Act), Amendment, Cancellation and Revocation of Registration(Sec 28,Sec29and Sec 31 of the Act)</p> <p>B. Computation of GST – Computation of GST under Inter State and Intra State Supplies.</p> <p>C. Payment of Tax- Payment of Tax, Interest and other Amounts(Sec 49 of the Act), Interest on delayed Payment (Sec 50 of the Act), TDS (Sec 51 of the Act), TCS (Sec 52 of the Act)</p>
4	<p>Filing of Returns</p> <p>A. Documentation- Tax Invoices (Sec 31 and 32 of the Act), Credit and Debit notes(Sec 34 of the Act), Electronic Way Bill</p> <p>B. Returns –Types of Returns and Provisions relating to filing of Returns (Sec 37 to Sec 48 of the Act)</p>

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Elective Courses (EC)

Group B: Marketing Electives

1. Brand Management

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Brand Management	15
2	Planning and Implementing Brand Marketing Programs	15
3	Measuring and Interpreting Brand Performance	15
4	Growing and Sustaining Brand Equity	15
	Total	60

Objectives

SN	Objectives
1	To understand the meaning and significance of Brand Management
2	To Know how to build, sustain and grow brands
3	To know the various sources of brand equity

SN	Modules/ Units
1	Introduction to Brand Management
	<p>a) Introduction to Brand Management:</p> <ul style="list-style-type: none"> • Meaning of Brand, Branding, Brand Management, Importance of Branding to Consumers, Firms, Brands v/s Products, Scope of Branding, Branding Challenges and Opportunities, Strategic Brand Management Process, Customer Based Brand Equity model (CBBE), Sources of Brand Equity, Steps of Brand Building including Brand Building Blocks, Brand Positioning: Meaning, Importance, Basis
2	Planning and Implementing Brand Marketing Programs
	<p>a) Planning and Implementing Brand Marketing Programs:</p> <ul style="list-style-type: none"> • Brand Elements: Meaning, Criteria for choosing Brand Elements, Types of Brand Elements • Integrating Marketing Programs and Activities • Personalising Marketing: Experiential Marketing, One to One Marketing, Permission Marketing • Product Strategy: Perceived Quality and Relationship Marketing • Pricing Strategy: Setting Prices to Build Brand Equity • Channel Strategy: Direct, Indirect Channels • Promotion Strategy: Developing Integrated Marketing Communication Programs • Leveraging Secondary Brand Associations to Build Brand Equity: Companies, Countries, Channel of Distribution, Co-branding, Characters, Events.
3	Measuring and Interpreting Brand Performance
	<p>a) The Brand Value Chain</p> <p>b) Measuring Sources of Brand Equity:</p> <ul style="list-style-type: none"> • Qualitative Research Techniques: Projective Techniques: Completion, Comparison, Brand Personality and Values: The Big Five, Free Association • Quantitative Research Techniques: Brand Awareness: Recognition, Recall, Brand Image, Brand Responses <p>c) Young and Rubicam's Brand Asset Valuator</p> <p>d) Measuring Outcomes of Brand Equity</p> <ul style="list-style-type: none"> • Comparative Methods: Brand based Comparative Approaches, Marketing Based Comparative Approaches, Conjoint Analysis • Holistic Methods: Residual Approaches, Valuation Approaches: Historical Perspectives and Interbrand's Brand Valuation Methodology

4	Growing and Sustaining Brand Equity
	<p>a) Designing & Implementing Branding Strategies:</p> <ul style="list-style-type: none"> • Brand Architecture: Meaning of Brand Architecture, The Brand-Product Matrix, Breadth of a Branding Strategy, Depth of a Branding Strategy • Brand Hierarchy: Meaning of Brand Hierarchy, Building Equity at Different Hierarchy Levels • Cause Marketing to Build Brand Equity: Meaning of Cause Marketing, Advantages, Green Marketing <p>b) Brand Extensions:</p> <ul style="list-style-type: none"> • Meaning, Advantages, Disadvantages, Brand Extension and Brand Equity <p>c) Managing Brands over Time:</p> <ul style="list-style-type: none"> • Reinforcing Brands, Revitalising Brands <p>d) Building Global Customer Based Brand Equity</p>

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Elective Courses (EC)

Group B: Marketing Electives

2. Retail Management

Modules at a Glance

SN	Modules	No. of Lectures
1	Retail Management- An overview	15
2	Retail Consumer and Retail Strategy	15
3	Merchandise Management and Pricing	15
4	Managing and Sustaining Retail	15
Total		60

Objectives

SN	Objectives
1	To familiarize the students with retail management concepts and operations
2	To provide understanding of retail management and types of retailers
3	To develop an understanding of retail management terminology including merchandize management, store management and retail strategy.
4	To acquaint the students with legal and ethical aspects of retail management
5	To create awareness about emerging trends in retail management

SN	Modules/ Units
1	<p>Retail Management- An overview</p> <p>a) Retail Management:</p> <ul style="list-style-type: none"> • Introduction and Meaning, Significance, Factors Influencing Retail Management, Scope of Retail Management <p>b) Retail Formats:</p> <ul style="list-style-type: none"> • Concept of Organized Retailing: Factors Responsible for the Growth of Organized Retail in India, Multichannel Retailing: Meaning and Types, E-tailing: Meaning, Advantages and Limitations <p>c) Emerging Trends in Retailing</p> <ul style="list-style-type: none"> • Impact of Globalization on Retailing • I.T in Retail: Importance, Advantages and Limitations, Applications of I.T. in Retail: EDI, Bar Coding, RFID Tags, Electronic Surveillance, Electronic Shelf Labels • FDI in Retailing: Meaning, Need for FDI in Indian Retail Scenario • Franchising: Meaning, Types, Advantages and Limitations, Franchising in India • Green Retailing • Airport Retailing
2	<p>Retail Consumer and Retail Strategy</p> <p>a) Retail Consumer/Shopper:</p> <ul style="list-style-type: none"> • Meaning of Retail Shopper, Factors Influencing Retail Shoppers, Changing Profile of Retail Shoppers, Market Research as a Tool for Understanding Retail Markets and Shoppers <p>b) CRM in Retail:</p> <ul style="list-style-type: none"> • Meaning, Objectives • Customer Retention Approaches: Frequent Shopper Programme, Special Customer Services, Personalization, Community <p>c) Retail Strategy:</p> <ul style="list-style-type: none"> • Meaning, Steps in Developing Retail Strategy, Retail Value Chain <p>d) Store Location Selection:</p> <ul style="list-style-type: none"> • Meaning, Types of Retail Locations, Factors Influencing Store Location <p>e) HRM in Retail:</p> <ul style="list-style-type: none"> • Meaning, Significance, Functions • Organization Structure in Retail: Meaning, Factors Influencing Designing Organization Structure, Organization Structure for Small Stores/Single Stores/Independent Retailers and Retail Store Chain/Department Store

SN	Modules/ Units
3	Merchandise Management and Pricing
	<p>a) Merchandise Management</p> <ul style="list-style-type: none"> • Concept, Types of Merchandise, Principles of Merchandising, Merchandise Planning- Meaning and Process, Merchandise Category – Meaning, Importance, Components, Role of Category Captain, Merchandise Procurement/Sourcing- Meaning, Process, Sources for Merchandise <p>b) Buying Function:</p> <ul style="list-style-type: none"> • Meaning, Buying Cycle, Factors Affecting Buying Functions, Functions of Buying for Different Types of Organizations Young and Rubicam’s Brand Asset Valuator- Independent Store, Retail Chain, Non-store Retailer <p>c) Concept of Lifestyle Merchandising</p> <p>d) Private Label</p> <ul style="list-style-type: none"> • Meaning, Need and Importance, Private Labels in India <p>e) Retail Pricing</p> <ul style="list-style-type: none"> • Meaning, Considerations in Setting Retail Pricing • Pricing Strategies: High/ Low Pricing: Meaning, Benefits, Everyday Low Pricing: Meaning, Benefits, Market Skimming, Market Penetration, Leader Pricing, Odd Pricing, Single Pricing, Multiple Pricing, Anchor Pricing • Variable Pricing and Price Discrimination- Meaning Types: <ul style="list-style-type: none"> ▪ Individualized Variable Pricing/First Degree Price ▪ Self-Selected Variable Pricing/ Second Degree Price Discrimination- Clearance and Promotional Markdowns, Coupons, Price Bundling, Multiple – Unit Pricing ▪ Variable Pricing by Market Segment/ Third Degree Price Discrimination
4	Managing and Sustaining Retail
	<p>a) Retail Store Operations:</p> <ul style="list-style-type: none"> • Meaning, Responsibilities of Store Manager, The 5 S’s of Retail Operations (Systems, Standards, Stock, Space, Staff) <p>b) Store Design and Layout:</p> <ul style="list-style-type: none"> • Store Design- Meaning, Objectives, Principles, Elements of Exterior and Interior Store Design, Store Atmospherics and Aesthetics • Store Layout- Meaning, Types: Grid, Racetrack, Free Form • Signage and Graphics: Meaning, Significance, Concept of Digital Signage • Feature Areas: Meaning, Types: Windows, Entrances, Freestanding Displays, End Caps, Promotional Aisles, Walls, Dressing Rooms, Cash Wraps

SN	Modules/ Units
	<p>c) Visual Merchandising and Display:</p> <ul style="list-style-type: none"> • Visual Merchandising- Meaning, Significance, Tools Used for Visual Merchandising • The Concept of Planogram • Display- Meaning, Methods of Display, Errors in Creating Display <p>d) Mall Management</p> <ul style="list-style-type: none"> • Meaning and Components: Positioning, Zoning, Promotion and Marketing, Facility Management, Finance Management <p>e) Legal and Ethical Aspects of Retailing</p> <ul style="list-style-type: none"> • Licenses/Permissions Required to Start Retail Store in India • Ethical Issues in Retailing <p>Career Options in Retailing</p>

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Elective Courses (EC)

Group B: Marketing Electives

3. International Marketing

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to International Marketing & Trade	15
2	International Marketing Environment and Marketing Research	15
3	International Marketing Mix	15
4	Developments in International Marketing	15
Total		60

Objectives

SN	Objectives
1	To understand International Marketing, its Advantages and Challenges.
2	To provide an insight on the dynamics of International Marketing Environment.
3	To understand the relevance of International Marketing Mix decisions and recent developments in Global Market

SN	Modules/ Units
1	Introduction to International Marketing & Trade
	<p>a) Introduction of International Marketing:</p> <ul style="list-style-type: none"> • Meaning, Features of International Marketing, Need and Drivers of International Marketing, Process of International Marketing, Phases of International Marketing, Benefits of International Marketing, Challenges of International Marketing, Difference between Domestic and International Marketing, Different Orientations of International Marketing : EPRG Framework, Entering International Markets :Exporting, Licensing, Franchising, Mergers and Acquisition, Joint Ventures, Strategic Alliance, Wholly Owned Subsidiaries, Contract Manufacturing and Turnkey Projects, Concept of Globalization <p>b) Introduction to International Trade:</p> <ul style="list-style-type: none"> • Concept of International Trade, Barriers to Trade: Tariff and Non Tariff, Trading Blocs : SAARC, ASEAN, NAFTA, EU, OPEC
2	International Marketing Environment and Marketing Research
	<p>a) International Marketing Environment:</p> <ul style="list-style-type: none"> • Economic Environment : International Economic Institution (World Bank, IMF, IFC) ,International Economic Integration (Free Trade Agreement, Customs Union, Common Market, Economic Union) • Political and Legal Environment: Political System (Democracy, Authoritarianism, Communism), Political Risk, Political Instability, Political Intervention. Legal Systems (Common Law, Civil Law, Theocratic Law), Legal Differences, Anti Dumping Law and Import License. • Cultural Environment : Concept , Elements of Culture (Language, Religion, Values and Attitude , Manners and Customs, Aesthetics and Education) , HOFSTEDE’s Six Dimension of Culture , Cultural Values (Individualism v/s Collectivism) <p>b) Marketing Research:</p> <ul style="list-style-type: none"> • Introduction, Need for Conducting International Marketing Research, International Marketing Research Process, Scope of International Marketing Research, IT in Marketing Research
3	International Marketing Mix
	<p>a) International Product Decision</p> <ul style="list-style-type: none"> • International Product Line Decisions, Product Standardization v/s Adaptation Argument, International Product Life Cycle, Role of Packaging and Labelling in International Markets, Branding Decisions in International Markets, International Market Segmentation and Targeting, International Product Positioning

SN	Modules/ Units
	<p>b) International Pricing Decision:</p> <ul style="list-style-type: none"> • Concept of International Pricing, Objectives of International Pricing, Factors Affecting International Pricing • International Pricing Methods: Cost Based, Demand Based, Competition Based , Value Pricing, Target Return Pricing and Going Rate Pricing • International Pricing Strategies : Skimming Pricing, Penetration Pricing , Predatory Pricing • International Pricing Issues : Gray Market , Counter Trade, Dumping, Transfer Pricing <p>c) International Distribution Decisions</p> <ul style="list-style-type: none"> • Concept of International Distribution Channels, Types of International Distribution Channels, Factors Influencing Selection of International Distribution Channel <p>d) International Promotion Decisions</p> <ul style="list-style-type: none"> • Concept of International Promotion Decision • Planning International Promotional Campaigns: Steps - Determine the Target Audience, Determine Specific Campaigns, Determine Budget, Determine Message, Determine Campaign Approach and Determine Campaign Effectiveness • Standardization V/S Adaptation of International Promotional Strategies • International Promotional Tools/Elements
4	Developments in International Marketing
	<p>a) Introduction -Developing International Marketing Plan:</p> <ul style="list-style-type: none"> • Preparing International Marketing Plan, Examining International Organisational Design, Controlling International Marketing Operations, Devising International Marketing Plan <p>b) International strategies:</p> <ul style="list-style-type: none"> • Need for International Strategies, Types of International Strategies <p>c) International Marketing of Services</p> <ul style="list-style-type: none"> • Concept of International Service Marketing, Features of International Service Marketing, Need of International Service Marketing, Drivers of Global Service Marketing, Advantages and Disadvantages of Global Service Marketing, Service Culture

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Elective Courses (EC)

Group B: Marketing Electives

4. Media Planning and Management

Modules at a Glance

SN	Modules	No. of Lectures
1	Overview of Media and Media Planning	15
2	Media Mix & Media Strategy	15
3	Media Budgeting, Buying & Scheduling	15
4	Media Measurement, Evaluation	15
Total		60

Objectives

SN	Objectives
1	To understand Media Planning, Strategy and Management with reference to current business scenario.
2	To know the basic characteristics of all media to ensure most effective use of advertising budget.
3	To provide an insight on Media Planning, Budgeting, Scheduling and Evaluating the Different Media Buys.

SN	Modules/ Units
1	Overview of Media and Media Planning
	<p>a) Overview of Media and Media Planning:</p> <ul style="list-style-type: none"> • Meaning of Media & Features of Media, Meaning of Media Planning , Scope of Media planning , Media Planning Elements, Role of Media in Business, Media Planning Process, Impact of Marketing Objectives on Media Planning, Factors Influencing Media Planning Decisions, Role and Importance of Media in Consumer Buying Decision, Role of Media Planner, Challenges of Media Planning, Organization Structure of Media Company, Regulatory Framework and Legal Aspects in Media Planning <p>b) Media Research:</p> <ul style="list-style-type: none"> • Meaning, Role and Importance • Sources of Media Research : Audit Bureau of Circulation, Press Audits, National Readership Survey/IRS, Businessmen’s Readership Survey, TRP, National Television Study, ADMAR Satellite Cable Network Study, Reach and Coverage Study, CIB Listenership Survey
2	Media Mix and Media Strategy
	<p>a) Media Mix:</p> <ul style="list-style-type: none"> • Meaning, Need for Media Mix, Identifying Audience for Mass Media , Factors Affecting Media Mix Decision, Types of Media Mix Decisions: Broad Media Classes, Media Vehicles, Media Units, Deciding Ideal Media Mix <p>b) Media Choices:</p> <ul style="list-style-type: none"> • Print Meaning- Factors Affecting Selection of Print Media Decisions , Types of Print Media, Advantages and Limitations • Television- Meaning, Factors Affecting Selection of Television Media Decisions, Advantages and Limitations • Radio- Meaning, Factors Affecting Selection of Radio Media Decision, Advantages and Limitations • Out of Home (OOH)- Meaning, Types of OOH, Factors Affecting OOH Planning Decision, Advantages and Limitations <p>c) Emerging Media:</p> <ul style="list-style-type: none"> • Online, Mobile, Gaming, In flight, In Store, Interactive Media <p>d) Media Strategy:</p> <ul style="list-style-type: none"> • Meaning, Need for Media Strategy, Situation Analysis for Media Strategy and its Components • Steps in Formulating Media Strategies: Defining the Target Group, Market Prioritization, Media Weights, Media Mix, Media Scheduling.

SN	Modules/ Units
3	Media Budgeting, Buying & Scheduling
	<p>a) Media Budget</p> <ul style="list-style-type: none"> • Meaning • Factors to be considered while Framing a Budget: Advertising Task, Competitive Framework, Market Dominance, Market Coverage, Media Cost, Market Task, Pricing ,Frequency of Purchase • Importance of Media Budget. • Methods of Setting Media Budget - Status Quo, Inflation Adjusted, Advertising Sales, Case Rate & Advertising Margin Method, Share of Market, Yardstick Method, Effective Frequency & Reach Method & Margin Analysis ROI Based Approach, Experimental Approach, Break Even Planning. <p>b) Media Buying:</p> <ul style="list-style-type: none"> • Meaning, Role of Media Buyer, Objectives of Media Buying, • Buying Process: Buying Brief, Environmental Analysis, Science and Art of Buying, Benchmarking Buying Plan Presentation Deal Management and Post Buy • Buying brief: Concept & Elements of Buying Brief, Art of Media Buying – Negotiation in Media Buying, Plan Presentation and Client Feedback • Criteria in Media Buying <p>c) Media Scheduling</p> <ul style="list-style-type: none"> • Meaning, Importance • Factors Affecting Scheduling: Sales Pattern, Purchase Cycle, Product Availability, Competitive Activity, Marketing Task, Budget Constraints, Target Group. • Scheduling Patterns – Continuity, Flighting, Pulsing • Scheduling Strategies for Creating Impact: Road Block , Day or Day part • Emphasis, Multiple Spotting, Teasers

SN	Modules/ Units
4	Developments in International Marketing
	<p>a) Media Measurement:</p> <ul style="list-style-type: none"> • Basic Metrics: Reach, Cumulative/Frequency Reach, Discrete & Cumulative distribution, Average Opportunity to See (AOTS), Effective frequency/Reach • Television Metrics: Dairy v/s Peoplemeter,TRP,/TVR, Program Reach & Time Spent, Stickiness Index, Ad Viewership • Radio Metrics: Arbitron Radio Rating • Print Metrics: Circulation, Average Issue Readership (AIR), Total or Claimed Reader, Sole or Solus reader. • OOH Metrics: Traffic Audit Bureau (TAB) <p>b) Benchmarking Metrics:</p> <ul style="list-style-type: none"> • Share, Profile, and Selectivity Index <p>c) Plan Metrics:</p> <ul style="list-style-type: none"> • Gross Rating Points (GRP), Gross Impressions (GI), Share of Voice (SOV). <p>d) Evaluating Media Buys</p> <ul style="list-style-type: none"> • Evaluating Television Media Buying: Dysfunctional Card Rate, Secondary and Effective Rate, Deal Composition, Cost Per Rating Point(CPRP), Reach Delivered by the Buy, Visibility Spots, Bonus Percentage, Upgrades and Spot Fixing, Sponsorships • Evaluating Print Media Buying: Discount on Rate Card, Negotiated Rate, Cost Per Thousand (CPT), Market Share Incentives, Readership v/s Circulation Track, Growth Incentives, Combination Rate Incentives, Full Page Discounts and Size Upgrades, Discount for Colour Ads, Date Flexibility Incentives, Positioning, Innovations. • Evaluating Other Media Buys: Radio Buys, Outdoor Buys, Cinema Buys, Internet Buys, and Mobile Buys

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**Elective Courses (EC)
Group B: Marketing Electives**

5. Sports Marketing

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Sports Marketing: Introduction, Environment & Research	15
2	The Sports Product, Pricing Strategies & Sponsorship	15
3	Promotion & Distribution Strategies in Sports Marketing	15
4	Legal aspects & Marketing of Major Sport Events	15
Total		60

Objectives

SN	Objectives
01	To equip the learner with an understanding of the business of sports marketing
02	To help the learner understand environmental factors influencing sports marketing
03	To help the learner understand components of marketing mix in the context of sports marketing
04	To understand legal aspects in sports marketing & franchising agreements

Sr. No.	Modules / Units
1	Sports Marketing: Introduction, Environment & Research
	Introduction to sports marketing: Sports marketing definition & characteristics, marketing myopia in sports, distinctive features of sports marketing, Model of sports Industry, Implementation of sports marketing programme Environment & Research in Sports Marketing: Environmental factors, individual factors, decision making for sports involvement, role of research in sports marketing: types of primary market research, common problems in sports marketing research
2	The sports Product, Pricing Strategies & Sponsorship
	The sports products: Core & extensions, key issues in sports products strategy, managing sports brands, brand equity: benefits & development, Sales: Definition, sales approaches used in sports, selling sports to the community Pricing strategies: The basics of pricing, core issues, factors affecting pricing Sponsorship: Definition, growth of sponsorship, evaluating and ensuring sponsorship effectiveness, selling the sponsorship, ethical issues in selling the sponsorships
3	Promotion & Distribution Strategies in Sports Marketing
	Promotional strategies: Promotional concepts & practice, components of promotion mix for sports marketing: Sales promotion, sponsorship, public relation, digital marketing & advertising. Media options in sports marketing, Distribution strategies: Placing core products & their extensions, the facility: marketing channels, the product-place matrix
4	Legal Aspects & Marketing of major Sport Events
	Cross impact among the 5Ps of sports marketing mix Legal aspects of sports marketing: Endorsement agreement, Player agreement, Franchise agreement & Sponsorship agreement Marketing of major sport events: Olympic Games, Commonwealth Games, ICC Cricket World Cup, Indian Premier League, FIFA Football World Cup, Wimbledon tennis tournament

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**Elective Courses (EC)
Group B: Marketing Electives**

6. Marketing of Non-Profit Organisation

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Non-profit Organization	15
2	Segmenting Targeting Positioning, Product mix & Pricing mix in Non-profit organizations	15
3	Promotion mix, Place mix of non-profit organizations & advocacy of non-profit organizations	15
4	Corporate Social Responsibility, innovations & Ethics in non-profit organizations	15
Total		60

Objectives

SN	Objectives
01	This course introduces students to the challenges of marketing in the non-profit sector.
02	To understand the role and application of marketing to promote social change and to achieve social goals for non-profits organizations including social and cause related marketing, fundraising
03	To apply marketing in a diverse range of non-profit environments including charities, social programs and ideas, health, education, arts, as well as goods and services
04	To understand the advocacy v/s lobbying and the concept of CSR and the policy framework of CSR under the Companies Act of 2013

Sr. No.	Modules / Units
1	Introduction to Non-profit Organization
	<p>a) Non-profit organization: Meaning of Non-Profit Organization, Features of non-profit organization, Characteristics of Non Profit marketing, Stakeholders in non-profit organization, Types of non-profit organization: Charities, newly emerging social enterprise sector, public sector, political parties and campaign organizations, classification of non-profit organizations, Social need: concept, social need as a basis for developing sustainable business model for a non-profit organization.</p> <p>b) Fundraising: meaning, common techniques to solicit funds, fund raising loyalty ladder, marketing and communication for fundraising</p>
2	Segmenting Targeting Positioning, Product mix & Pricing mix in Non-profit organizations
	<p>a) Segmentation, Targeting & Positioning of non-profit organizations: Strategic Marketing for Non-Profit Organization, Steps in Strategic Marketing of non-profit organization, Market Segmentation, Targeting & Positioning in non-profit organization</p> <p>b) Product mix & Pricing mix in non-profit organization: Budgeting, cost effective marketing mix, Cost Management, Product or offer in non-profit organization, level of offer in non-profit organization, Pricing Objectives in non-profit organizations, Pricing Strategies in non-profit organizations</p>
3	Promotion mix, Place mix of non-profit organizations & advocacy of non-profit organizations
	<p>a) Promotion Mix: Promotion of non-profit Organizations: Marketing Communication Strategies, Integrated Marketing Communication in nonprofit organizations, Image & reputation, Marketing Communication process, Marketing communication process, Role of Audience, message and vehicle in non-profit organization communication. Significance of place in non-profit organizations, Challenges for non-profit organizations in rural areas.</p> <p>b) Advocacy & Fund Raising in non-profit organization: Meaning, steps in building support for advocacy, advocacy tactics: lobbying, Coalition Building, outreach to media, educating policy makers on issues, educating public on policy issue, building relationship with policy maker. Distinctive characteristics of advocacy groups, Steps in crafting an advocacy plan, steps in engaging policy makers for lobbying, advocacy v/s lobbying, Evaluating advocacy.</p> <p>Fund Raising: meaning, Principles of fundraising, Fund raising cycle, The fund raising pyramid and donor life cycle.</p>
4	Corporate Social Responsibility, innovations & Ethics in non-profit organizations
	<p>a) Corporate social responsibility: CSR, Importance of CSR, history and evolution of CSR, Policy framework for CSR in India, Section 135 of Companies Act 2013, Role of CSR committee on Boards</p> <p>Code of Ethics in non-profit organization, hierarchy of ethical values in non-profit organization, careers in CSR.</p> <p>b) Trends and Innovations: Current trends, innovations and opportunities in CSR, Influence of non-profit organizations and their impact on corporate CSR, Challenges faced by non-profit organizations in India.</p> <p>c) Non-Governmental Organization (NGO): Meaning of Non-Government Organization (NGO), Difference between Voluntary Organization & NGO, Steps of Voluntarism, Types of NGO: advocacy of chosen cause, Small or Grassroot NGO, Mother NGO, National NGO, corporate NGO, Global NGO's</p>

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Elective Courses (EC)

Group C: Human Resource Electives

1. HRM in Global Perspective

Modules at a Glance

SN	Modules	No. of Lectures
1	International HRM – An Overview	15
2	Global HRM Functions	15
3	Managing Expatriation and Repatriation	15
4	International HRM Trends and Challenges	15
Total		60

Objectives

SN	Objectives
1	To introduce the students to the study and practice of IHRM
2	To understand the concepts, theoretical framework and issues of HRM in Global Perspective
3	To get insights of the concepts of Expatriates and Repatriates
4	To find out the impact of cross culture on Human Resource Management
5	To provide information about Global Workforce Management
6	To study International HRM Trends and Challenges

SN	Modules/ Units
1	International HRM – An Overview
	<p>a) International HRM – An Overview:</p> <ul style="list-style-type: none"> • International HRM- Meaning and Features, Objectives, Evolution of IHRM, Reasons for Emergency of IHRM, Significance of IHRM in International Business, Scope/Functions • Difference between International HRM and Domestic HRM • Approaches to IHRM- Ethnocentric, Polycentric, Geocentric and Regiocentric • Limitations to IHRM • Qualities of Global Managers • Organizational Dynamics and IHRM • Components of IHRM- Cross Cultural Management and Comparative HRM • Cross Cultural Management- Meaning, Features, Convergence of Cultures, Role of IHRM in Cross Culture Management, Problems of Cross Cultural Issues in Organizations, Importance of Cultural Sensitivity to International Managers • Comparative HRM- Meaning, Importance, Difference between IHRM and Comparative HRM • Managing Diversity in Workforce • Dealing with Cultural Shock
2	Global HRM Functions
	<p>a) Global HRM Functions:</p> <ul style="list-style-type: none"> • International Recruitment and Selection- Meaning- Sources of International Labour Market, Global Staffing, Selection Criteria, Managing Global Diverse Workforce • International Compensation – Meaning, Objectives, Components of International Compensation Program, Approaches to International Compensation • HRM Perspectives in Training and Development - Meaning, Advantages, Cross Cultural Training, Issues in Cross Cultural Training • International Performance Management – Meaning, Factors Influencing Performance, Criterion used for Performance Appraisal of International Employees, Problems Faced in International Performance Management • Motivation and Reward System- Meaning, Benchmarking Global Practices • International Industrial Relations – Meaning, Key Issues in International Industrial Relations, Trade Union and International IR

SN	Modules/ Units
3	Managing Expatriation and Repatriation
	<p>a) Managing Expatriation and Repatriation</p> <ul style="list-style-type: none"> • Concepts of PCNs (Parent-Country Nationals), TCNs(Third-Country Nationals) and HCNs(Host-Country Nationals) • Expatriation- Meaning, Reasons for Expatriation, Factors in Selection of Expatriates, Advantages of Using Expatriates, Limitations of using Expatriates, Role of Family, the Role of Non-expatriates, Reasons for Expatriate Failure, Women and Expatriation, Requirements/Characteristics of Effective Expatriate Managers • Repatriation- Meaning, Repatriation Process, Factors affecting Repatriation Process, Role of Repatriate, Challenges faced by Repatriates
4	International HRM Trends and Challenges
	<p>a) International HRM Trends and Challenges:</p> <ul style="list-style-type: none"> • Emerging Trends in IHRM • Off Shoring – Meaning, Importance, Off Shoring and HRM in India • International Business Ethics and IHRM – Meaning of Business Ethics, Global Values, International Corporate Code of Conduct, Criminalization of Bribery, Operationalizing Corporate Ethics of HR in Overall Corporate Ethics Programme • Managing International Projects and Teams- Meaning, How Projects are Managed across the World and Challenges in Managing International Projects across the World • HR in MNCs – Industrial Relations in MNCs • Role of Technology on IHRM • IHRM and Virtual Organization- Meaning and Features of Virtual Organization, Difference between Virtual Organization and Traditional Organization, Managing HR in Virtual Organization • Growth in Strategic Alliances and Cross Border Mergers and Acquisitions- Impact on IHRM • Knowledge Management and IHRM

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Elective Courses (EC)

Group C: Human Resource Electives

2. Organisational Development

Modules at a Glance

SN	Modules	No. of Lectures
1	International HRM – An Overview	15
2	Global HRM Functions	15
3	Managing Expatriation and Repatriation	15
4	International HRM Trends and Challenges	15
Total		60

Objectives

SN	Objectives
1	To understand the concept of Organisational Development and its Relevance in the organisation
2	To Study the Issues and Challenges of OD while undergoing Changes
3	To get an Understanding of Phases of OD Programme
4	To Study the OD Intervention to meet the Challenges faced in the Organisation
5	To get an Insight into Ethical Issues in OD

SN	Modules/ Units
1	Organisational Development – An Overview
	<p>a) Organisational Development – An Overview:</p> <ul style="list-style-type: none"> • Organisational Development – Meaning, Features, Evolution, Components, Objectives, Principles, Process, Importance • Relevance of Organisational Development for Managers, OD- HRD Interface, Participation of Top Management in OD • OD Practitioner – Meaning, Role of OD Practitioner, Competencies of an OD Practitioner • Emerging Trends in OD • OD in Global Setting
2	Organisational Diagnosis, Renewal and Change
	<p>a) Organisational Diagnosis, Renewal and Change:</p> <ul style="list-style-type: none"> • Organisational Diagnosis - Meaning, Need, Phases, Levels of Organisational Diagnosis, Techniques of Organisational Diagnosis, Tools used in Organisational Diagnosis • Organizational Renewal, Re-energising, OD and Business Process Re-Engineering (BPR), OD and Leadership Development • Organisational Change- Meaning, Organisational Life Cycle, Planned Change, Organizational Growth and its Implication for Change • Change Agents- Meaning, Features, Types, Role, Skills required
3	OD Interventions
	<p>a) Managing Expatriation and Repatriation</p> <ul style="list-style-type: none"> • OD Interventions- Meaning, Features, Factors Affecting Success of Interventions, Steps in OD Interventions • Types of Interventions- Human Resource Intervention, Structural Intervention, Strategic Interventions, Third Party Peace Making Intervention • Techniques of OD Intervention : <ul style="list-style-type: none"> ▪ Traditional: Sensitive Training, Grid Training, Survey Feedback. ▪ Modern : Process Consultation, Third Party, Team Building, Transactional Analysis • Evaluation of OD Interventions : Process, Types, Methods, Importance

SN	Modules/ Units
4	OD Effectiveness
	<p>a) OD Effectiveness:</p> <ul style="list-style-type: none"> • Issues Faced in OD- Issues Related to Client Relationship, Power-Individual skills and Attributes as a Source of Power, Power and Influence Tactics, Politics and OD • Values in OD – Meaning, Professional Values, Value Conflict and Dilemma • Ethics in OD – Meaning, Factors Influencing Ethical Judgement, Ethical Guidelines for OD Professionals • Organisational Effectiveness- Meaning , Effectiveness v/s Efficiency, Approaches of Organisational Effectiveness : Goal Approach, System Resource Approach, Strategic Constituency Approach, Internal Process Approach; Parameters for Judging Organisational Effectiveness, Ways to Enhance Organisational Effectiveness

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Elective Courses (EC)

Group C: Human Resource Electives

3. HRM in Service Sector Management

Modules at a Glance

SN	Modules	No. of Lectures
1	Service Sector Management- An Overview	15
2	Managing Human Element in Service Sector	15
3	Issues and Challenges of HR in Service Sector	15
4	HRP Evaluation, Attrition, Retention & Globalization	15
Total		60

Objectives

SN	Objectives
1	To understand the concept and growing importance of HRM in service sector
2	To understand how to manage human resources in service sector
3	To understand the significance of human element in creating customer satisfaction through service quality
4	To understand the Issues and Challenges of HR in various service sectors

SN	Modules/ Units
1	Service Sector Management- An Overview
	<p>a) Service Sector Management- An Overview:</p> <ul style="list-style-type: none"> • Services - Meaning, Features, Classification of Services: End User, Degree of Tangibility, People Based Services, Expertise Required, Orientation Towards Profit, By Location • Service Sector Management – Meaning, Significance of Service Sector, Reasons for Growth in Service Sector • Service Organization - Importance of Layout and Design of Service Organization, Servicescape • Service Culture in Organization – Meaning, Developing Service Culture in Organization • Relationship Marketing – Meaning, Need and Importance in Service Sector Organizations, Six Market Model • Role of Service Employee • Role of Customers in Service Process– Customers as Productive Resources, Customers as Contributors to Service Quality, Customers as Competitors • Service Encounter and Moment of Truth –Meaning, Nature, Elements of Service Encounter
2	Managing Human Element in Service Sector
	<p>a) Managing Human Element in Service Sector:</p> <ul style="list-style-type: none"> • Human Element in Service Sector – Introduction, Role and Significance • The Services Triangle • Front Line Employees /Boundary Spanners– Meaning, Issues Faced by Front Line Employees: Person/ Role Conflicts, Organization/ Client Conflict, Interclient Conflict • Emotional Labour – Meaning, Strategies for Managing Emotional Labour • Recruitment in Service Sector– Recruiting Right People, Recruitment Procedures and Criteria, Challenges in Recruitment in Service Sector • Selection of Employees in Service Sector – Interviewing Techniques: Abstract Questioning, Situational Vignette, Role Playing • Develop People to Deliver Service Quality • Compensating Employees in Service Sector • Motivating Employees for Services • Empowerment of Service Workers – Meaning, Advantages and Limitations

SN	Modules/ Units
3	Issues and Challenges of HR in Service Sector
	<p>a) Issues and Challenges of HR in Service Sector:</p> <ul style="list-style-type: none"> • Quality Issues in Services: Meaning and Dimensions of Service Quality, The Service – Gap Model, Reasons and Strategies to fill the Gaps • Delivering Services through Agents and Brokers - Meaning, Advantages, Challenges, Strategies for Effective Service Delivery through Agents and Brokers • HRM in Public Sector Organizations and Non – Profit Sector in India • Issues and Challenges of HR in Specific Services: <ul style="list-style-type: none"> ▪ Business and Professional Services: Banking and Insurance, Legal, Accountancy ▪ Infrastructure: Roads, Railways, Power ▪ Public Services: Police, Defense, Disaster Management ▪ Trade Services: Wholesale and Retail, Advertising, Maintenance and Repairs ▪ Personnel Services: Education, Health Care, Hotels • Social and Charitable Services
4	HRP Evaluation, Attrition, Retention & Globalization
	<p>a) HRP Evaluation, Attrition, Retention & Globalization:</p> <ul style="list-style-type: none"> • Human Resource Planning Evaluation in Service Sector – Meaning, HRP Evaluation Process, Purpose of HRP Evaluation in Service Sector, Issues Influencing HRP Evaluation in Service Sector • Service Leadership – Meaning, Integrating Marketing Operation and Human Resources, Creating a Leading Service Organization, The Service – Profit Chain Model • Attrition in Service Sector –Meaning, Reasons for Attrition in Service Sector, Cycle of Failure, Cycle of Mediocrity and Cycle of Success • Retaining the Best People in Service Sector – Including Employees in Company’s Vision, Treat Employees as Customers, Measure and Reward String Service Performers • Globalization of Services- Meaning, Reasons for Globalization of Services, Impact of Globalization on Indian Service Sector. Organisational Effectiveness, Ways to Enhance Organisational Effectiveness

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**Elective Courses (EC)
Group C: Human Resource Electives**

4. Workforce Diversity

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Workforce Diversity - An Overview	15
2	Workforce Diversity and HRM Functions	15
3	Strategies to Manage Diversity	15
4	Issues in Managing Diversity and Recent Trends	15
Total		60

Objectives

SN	Objectives
01	To understand the nature of workforce diversity
02	To familiarize the learners with the strategies to deal with work force diversity
03	To understand the impact of technology in managing workforce diversity
04	To be able to interlink between workforce diversity and HRM functions

Sr. No.	Modules / Units
1	Workforce Diversity - An Overview
	<ul style="list-style-type: none"> • Meaning of Workforce • Workforce Diversity - Meaning, Features and Significance • Dimensions of Workforce Diversity • Advantages and Limitations of having a diverse workforce • Positive and Negative effects of workforce diversity in workplace
2	Workforce Diversity and HRM Functions
	<ul style="list-style-type: none"> • Steps to Recruiting and Retaining a Diverse Workforce • Workforce Diversity and HRM Functions – Diversity and Recruitment, Diversity and Supervision, Diversity and Training, Diversity and Compensation, Diversity and Performance Management, Diversity and Work life Balance • Role of Recruiter in Hiring Diversified Workforce • Workforce Diversity – Key to Organizational Performance • Workforce Diversity as a Determinant of Sustainable Competitive Advantage
3	Strategies to Manage Diversity
	<ul style="list-style-type: none"> • Organizational Strategies for Managing Workforce Diversity –Workplace Inclusion Strategies through Corporate Leadership, Diversity Training and Mentoring • Diversity Management Programmes - Concept • Corporate Culture and Diversity at workplace • Techniques of Managing Work Force Diversity • Approaches to Diversity Management System
4	Issues in Managing Diversity and Recent Trends
	<ul style="list-style-type: none"> • Best Practices in Achieving Workforce Diversity • Diversity and Multi-culturism • Global workforce diversity management • Recent Trends of Diversity • Role of Technology in Handling Workforce Diversity • Workforce Diversity Management for Creativity and Innovation • Ethical and Legal Issues in Managing Diversity

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Elective Courses (EC)

Group C: Human Resource Electives

5. Human Resource Accounting & Auditing

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Human Resource Accounting: An Overview	15
2	Methods and Human Resource Accounting Practices in India	15
3	Human Resource Audit: An Overview	15
4	HR Audit for Legal Compliance and Safe Business Practices	15
Total		60

Objectives

SN	Objectives
01	To understand the value of human resource in organizations
02	To understand the importance of Human Resource Accounting at National and International level
03	To familiarize with the Human Resource Accounting Practices in India
04	To familiarize the learners with the process and approaches of Human Resources Accounting and Audit
05	To understand the significance of Human Resource Auditing as a Tool of Human Resource Valuation

Sr. No.	Modules / Units
1	Human Resource Accounting: An Overview
	<ul style="list-style-type: none"> • Human Resource Accounting – Meaning, Need and Objectives of HR Accounting • Historical Development of Human Resource Accounting, • Cost of Human Resource - Acquisition Cost, Training and Development Cost and additional Cost • Benefits and Limitations of Human Resource Accounting • Reporting of Human Resource Accounting at National Levels • Disclosures at International Level
2	Methods and Human Resource Accounting Practices in India
	<ul style="list-style-type: none"> • Methods of Human Resource Accounting: <ol style="list-style-type: none"> 1. Cost of Production Approach - Concept <ol style="list-style-type: none"> i. Historical Cost Model – Meaning, Advantages and Limitations ii. Replacement Cost Model – Meaning, Advantages and Limitations iii. Opportunity Cost - – Meaning, Advantages and Limitations 2. Capitalized Earnings Approach - Concept <ol style="list-style-type: none"> i. Economic Value Model - Meaning, Advantages and Limitations ii. Capitalization of Salary - Meaning, Advantages and Limitations • Statutory Provisions governing HR accounts • Human Resource Accounting Practices in India
3	Human Resource Audit: An Overview
	<ul style="list-style-type: none"> • Human Resource Audit - Meaning, Features, Objectives of HR Audit • Benefits and limitations of HR Audit • Need and Significance of HR Audit • Process of HR Audit • Approaches of HR Audit • Principles of Effective HR Auditing • Role of HR Auditor • Methods of conducting HR Audit – Interview, Workshop, Observation, Questionnaire. • Components of HR Audit • HR Audit and Workforce Issues : Workforce Communication and Employee Relations, Performance Management, Compensation System, Teambuilding System
4	HR Audit for Legal Compliance and Safe Business Practices
	<ul style="list-style-type: none"> • Areas covered by HR Audit - Pre-employment Requirements, Hiring Process, New-hire Orientation Process, Workplace Policies and Practices • HR Audit as Intervention - Introduction, Effectiveness of Human Resource Development Audit as an Intervention • Human Resource Audit and Business Linkages • Human Resource Auditing as a Tool of Human Resource Valuation: Introduction, Rationale of Human Resource Valuation and Auditing, Valuation of Human Resources, Issues in Human Capital Measurement and Reporting.

**Revised Syllabus of Courses of Bachelor of Management Studies
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Elective Courses (EC)

Group C: Human Resource Electives

6. Indian Ethos in Management

Modules at a Glance

SN	Modules	No. of Lectures
1	Indian Ethos – An Overview	15
2	Work Ethos and Values	15
3	Stress Management	15
4	Indian Systems of Learning	15
Total		60

Objectives

SN	Objectives
1	To understand the concept of Indian Ethos in Management
2	To link the Traditional Management System to Modern Management System
3	To understand the Techniques of Stress Management
4	To understand the Evolution of Learning Systems in India

SN	Modules/ Units
1	Indian Ethos – An Overview
	<p>a) Indian Ethos</p> <ul style="list-style-type: none"> • Meaning, Features, Need, History, Relevance, Principles Practised by Indian Companies, Requisites, Elements, Role of Indian Ethos in Managerial Practices <p>b) Management Lessons from Scriptures:</p> <ul style="list-style-type: none"> • Management Lessons from Vedas, Management Lessons from Mahabharata, Management Lessons from Bible, Management Lessons from Quran, Management Lessons from Kautilya's Arthashastra <p>Indian Heritage in Business, Management, Production and Consumption. Ethics v/s Ethos Indian Management v/s Western Management</p>
2	Work Ethos and Values
	<p>a) Work Ethos:</p> <ul style="list-style-type: none"> • Meaning, Levels, Dimensions, Steps, Factors Responsible for Poor Work Ethos <p>b) Values:</p> <ul style="list-style-type: none"> • Meaning, Features, Values for Indian Managers, Relevance of Value Based Management in Global Change, Impact of Values on Stakeholders: Employees, Customers, Government, Competitors and Society. • Values for Managers, Trans-Cultural Human Values in Management and Management Education, Secular v/s Spiritual Values in Management, Importance of Value System in Work Culture
3	Stress Management
	<p>a) Stress Management:</p> <ul style="list-style-type: none"> • Meaning, Types of Stress at Work, Causes of Stress, Consequences of Stress <p>b) Stress Management Techniques:</p> <ul style="list-style-type: none"> • Meditation : Meaning, Techniques, Advantages, Mental Health and its Importance in Management, Brain Storming, Brain Stilling, Yoga: Meaning, Significance <p>c) Leadership:</p> <ul style="list-style-type: none"> • Meaning, Contemporary Approaches to Leadership, Joint Hindu Family Business – Leadership Qualities of Karta <p>d) Motivation:</p> <ul style="list-style-type: none"> • Meaning, Indian Approach to Motivation, Techniques

SN	Modules/ Units
4	Indian Systems of Learning
	<p>a) Learning: Meaning, Mechanisms</p> <ul style="list-style-type: none"> • Gurukul System of Learning : Meaning, Features, Advantages, Disadvantages • Modern System of Learning: Meanings, Features, Advantages, Disadvantages • Karma: Meaning, Importance of Karma to Managers, Nishkama Karma • Laws of Karma: The Great Law, Law of Creation, Law of Humility, Law of Growth, Law of Responsibility, Law of Connection • Corporate Karma: Meaning, Methodology, Guidelines for good Corporate Karma • Self-Management: Personal growth and Lessons from Ancient Indian Education System • Personality Development: Meaning, Determinants, Indian Ethos and Personality Development

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Core Course (CC)

5. Operations Research

Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Operations Research and Linear Programming	15
2	Assignment and Transportation Models	15
3	Network Analysis	15
4	Job Sequencing and Theory of Games	15
Total		60

Objectives

SN	Objectives
1	To help students to understand operations research methodologies
2	To help students to solve various problems practically
3	To make students proficient in case analysis and interpretation

SN	Modules/ Units
1	Introduction to Operations Research and Linear Programming
	<p>a) Introduction To Operations Research</p> <ul style="list-style-type: none"> • Operations Research - Definition, Characteristics of OR, OR Techniques, Areas of Application, Limitations of OR. <p>b) Linear Programming Problems: Introduction and Formulation</p> <ul style="list-style-type: none"> • Introduction to Linear Programming • Applications of LP • Components of LP • Requirements for Formulation of LP Problem • Assumptions Underlying Linear Programming • Steps in Solving LP Problems • LPP Formulation (Decision Variables, Objective Function, Constraints, Non Negativity Constraints) <p>c) Linear Programming Problems: Graphical Method</p> <ul style="list-style-type: none"> • Maximization & Minimization Type Problems. (Max. Z & Min. Z) • Two Decision Variables and Maximum Three Constraints Problem • Constraints can be “less than or equal to”, “greater than or equal to” or a combination of both the types i.e. mixed constraints. • Concepts: Feasible Region of Solution, Unbounded Solution, Redundant Constraint, Infeasible Solution, Alternative Optima. <p>d) Linear Programming Problems: Simplex Method</p> <ul style="list-style-type: none"> • Only Maximization Type Problems. (<u>Only Max. Z</u>). No Minimization problems. (No Min. Z) Numericals on Degeneracy in Maximization Simplex Problems. • Two or Three Decision Variables and Maximum Three Constraints Problem. (Up to Maximum Two Iterations) • All Constraints to be “less than or equal to” Constraints. (“Greater than or Equal to” Constraints not included.) • Concepts : Slack Variables, Surplus Variables, Artificial Variables, Duality, Product Mix and Profit, Feasible and Infeasible Solution, Unique or Alternate Optimal Solution, Degeneracy, Non Degenerate, Shadow Prices of Resources, Scarce and Abundant Resources, Utilized and Unutilized Capacity of Resources, Percentage Utilization of Resources, Decision for Introduction of a New Product. <p>Note:</p> <ol style="list-style-type: none"> 1. Surplus Variable, Artificial Variable and Duality to be covered only at <u>Conceptual</u> level for Theory Questions only and not included in Numerical. 2. Sensitivity Analysis including Profit Range and Capacity Range is not included.

SN	Modules/ Units
2	Assignment and Transportation Models
	<p>a) Assignment Problem – Hungarian Method</p> <ul style="list-style-type: none"> • Maximization & Minimization Type Problems. • Balanced and Unbalanced Problems. • Prohibited Assignment Problems, Unique or Multiple Optimal Solutions. • Simple Formulation of Assignment Problems. • Maximum 5 x 5 Matrix. Up to Maximum Two Iterations after Row and Column Minimization. <p>Note:</p> <ol style="list-style-type: none"> 1. Travelling Salesman Assignment Problem is not included. <p>b) Transportation Problems</p> <ul style="list-style-type: none"> • Maximization & Minimization Type Problems. • Balanced and Unbalanced problems. • Prohibited Transportation Problems, Unique or Multiple Optimal Solutions. • Simple Formulation of Transportation Problems. • <u>Initial Feasible Solution</u> (IFS) by: <ol style="list-style-type: none"> a. North West Corner Rule (NWCR) b. Least Cost Method (LCM) c. Vogel’s Approximation Method (VAM) • Maximum 5 x 5 Transportation Matrix. • Finding Optimal Solution by <u>Modified Distribution (MODI) Method</u>. (u, v and Δ) • <u>Maximum Two Iterations</u> (i.e. Maximum Two Loops) after IFS. <p>Note:</p> <ol style="list-style-type: none"> 1. Production Scheduling Problem is not included. 2. Time Minimization Problem is not included. 3. Degeneracy Concept to be covered only at Conceptual Level. Not to be included in Numerical.

SN	Modules/ Units
3	Network Analysis
	<p>a) Critical Path Method (CPM)</p> <ul style="list-style-type: none"> • Concepts: Activity, Event, Network Diagram, Merge Event, Burst Event, Concurrent and Burst Activity, • Construction of a Network Diagram. Node Relationship and Precedence Relationship. • Principles of Constructing Network Diagram. • Use of Dummy Activity • Numerical Consisting of Maximum Ten (10) Activities. • Critical Path, Sub-critical Path, Critical and Non-critical Activities, Project Completion Time. • Forward Pass and Backward Pass Methods. • Calculation of EST, EFT, LST, LFT, Head Event Slack, Tail Event Slack, Total Float, Free Float, Independent Float and Interfering Float <p>b) Project Crashing</p> <ul style="list-style-type: none"> • Meaning of Project Crashing. • Concepts: Normal Time, Normal Cost, Crash Time, Crash Cost of Activities. Cost Slope of an Activity. • Costs involved in Project Crashing: Numericals with Direct, Indirect, Penalty, crash cost and Total Costs. • Time – Cost Trade off in Project Crashing. • Optimal (Minimum) Project Cost and Optimal Project Completion Time. • Process of Project Crashing. • Numerical Consisting of Maximum Ten (10) Activities. • Numerical based on Maximum Four (04) Iterations of Crashing <p>c) Program Evaluation and Review Technique (PERT)</p> <ul style="list-style-type: none"> • Three Time Estimates of PERT: Optimistic Time (a), Most Likely Time (m) and Pessimistic Time (b). • Expected Time (te) of an Activity Using Three Time Estimates. • Difference between CPM and PERT. • Numerical Consisting of Maximum Ten (10) Activities. • Construction of PERT Network using tevalues of all Activities. • Mean (Expected) Project Completion Time. • Standard Deviation and Variance of Activities. • Project Variance and Project Standard Deviation. • ‘Prob. Z’ Formula. • Standard Normal Probability Table. Calculation of Probability from the Probability Table using ‘Z’ Value and Simple Questions related to PERT Technique. • Meaning, Objectives, Importance, Scope, RORO/LASH

SN	Modules/ Units
4	Job Sequencing and Theory of Games
	<p>a) Job Sequencing Problem</p> <ul style="list-style-type: none"> • Processing Maximum 9 Jobs through Two Machines only. • Processing Maximum 6 Jobs through Three Machines only. • Calculations of Idle Time, Elapsed Time etc. <p>b) Theory of Games</p> <ul style="list-style-type: none"> • Introduction • Terminology of Game Theory: Players, Strategies, Play, Payoff, Payoff matrix, Maximin, Maximax, Saddle Point. • Types of Games. • Numericals based on: <ul style="list-style-type: none"> ▪ Two Person Zero Sum Games including strictly determinable and Fair Game <ul style="list-style-type: none"> - Pure Strategy Games (Saddle Point available). Principles of Dominance method.

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Reference Books

Reference Books
International Finance
<ul style="list-style-type: none"> • P G Apte, <i>International Financial Management, 5th Edition, The McGraw Hill</i> • Cheol . S. Eun & Bruce G. Resnick, <i>International Finance Management</i> • Maurice D. Levi, <i>International Finance – Special Indian Edition</i> • Prakash G. Apte, <i>International Finance – A Business Perspective</i> • V A. Aadhani, <i>International Finance</i>
Innovative Financial Services
<ul style="list-style-type: none"> • IM Pandey, <i>Financial Management, Vikas Publishing House Ltd.</i> • Khan M.Y., <i>Financial Services, Mc Graw Hill Education.</i> • Dr.S.Gurusamy, <i>Financial Services, Vijay Nicole Imprints.</i> • <i>Financial Market and Services, E, Gordon and K. Natrajan, Himalaya Publishing House</i>
Project Management
<ul style="list-style-type: none"> • Harold Kerzer, <i>Project Management – A System Approach to Planning, Scheduling & Controlling</i> • Jack.R.Meredith & Samuel.J.Mantel, Jr.,<i>Project Management – A Managerial Approach</i> • Bhavesh.M.Patel, <i>Project Management – Strategic Financial Planning , Evaluation & Control</i>
Strategic Financial Management
<ul style="list-style-type: none"> • C. Paramasivan& T. Subramanian, <i>Financial Management</i> • IM Pandey, <i>Financial Management</i> • Ravi Kishor, <i>Financial Management</i> • Khan & Jain, <i>Financial Management</i> • Van Horne & Wachowiz, <i>Fundamentals of Financial Management</i> • Prasanna Chandra, <i>Strategic Financial Management</i>
Financing Rural Development
<ul style="list-style-type: none"> • <i>Rural Banking – IIB Macmillan</i> • <i>MicroFinance Perspective and Finance - IIB Macmillan</i> • <i>MSME in India – Taxman</i>
Indirect Taxes
<ul style="list-style-type: none"> • <i>GST Bare Act 2017</i> • <i>GST Law & Practice - V.S Datey (6th Edition)</i> • <i>GST Laws – National Academy of Customs, Indirect Tax</i>
Brand Management
<ul style="list-style-type: none"> • Keller Kevin Lane, <i>Strategic Brand Management: Building, Measuring and Managing Brand Equity</i> • Keller Kevin Lane, <i>Strategic Brand Management-2008</i> • Elliot, Richard, <i>Strategic Brand Management-2008</i> • Kapferer, Jean-Noel, <i>Strategic Brand Management-2000</i> • Kishen, Ram, <i>Strategic Brand Management- 2013</i> • Keller Kevin Lane, <i>Strategic Brand Management 4e-2015</i>

**Revised Syllabus of Courses of Bachelor of Management Studies
(BMS) Programme at Semester VI
with effect from the Academic Year 2018-2019**

Reference Books

Reference Books
Retail Management
<ul style="list-style-type: none"> • Michael Levy & Barton A Weitz, "Retailing Management", Tata Mc Graw Hill • Gibson G. Vedamani, "Retail Management- Functional Principles and Practices", Jaico Publishing House, Mumbai. • Jim, "Retail Strategies-understanding why we shop", Jaico Publishing House, Mumbai. • Dunne Lusch, "Retail Management", South Western Cengage Learning • K.S. Menon, "Store Management", Macmillan India Ltd., • Keith Lincoln, Lars Thomessen & Anthony Aconis, "Retailization -Brand Survival in the Age of Retailer Power", Kogan Page Ltd., • Swapna Pradhan, "Retailing Management-Text and Cases", 4th Edn, Tata Mc Graw Hill. • Bajaj, Tulli & Shrivastava, "Retail Management", Oxford University Press • Kishore Biyani, "It Happens in India", & "The Wall Mart Story" • Store Manager, Organiser / Planner- DMS Retail • Dr. RamKishen Y. "International Retail Marketing Strategies", Jaico Publishing House, Mumbai.
International Marketing
<ul style="list-style-type: none"> • Dr. Shakeel Ahmad Siddiqui, International Marketing, Dreamtech press , Edition 2011 • Philip R.Cateora, John L. Graham, Prashanth Salwan, International Marketing , Tata Mcgraw hill Education Private limited, New Delhi, Thirteenth Edition . • RajGopal, International Marketing, Vikas Publishing House Pvt. Ltd., Edition 2007. • Sak Onkvisit, John J.Shaw, International Marketing Analysis and Strategy, Pearson Publication, Third Edition • Francis Cherunilam, International Business, PHI Learning Private Limited New Delhi, Fifth Edition . • Justin Paul and Ramneek Kapoor, International Marketing Text and Cases, Tata Mcgraw Hill Education Private Limited New Delhi, Second Edition. • Rakesh Mohan Joshi, International Marketing, Oxford University Press, Second Edition • Philip R. Cateora, John L. Graham, International Marketing, Tata Mcgraw Hill, Twelfth Edition • Rakesh Mohan Joshi, International Marketing Oxford University Press, First Edition • Michael R. Czinkota, Iikka A Ronkainen, International Marketing, Cengage Learning Edition 2007 • Gerald Albaum, Edwin Duerr, Jesper Strandskov, International Marketing and Export Management, Pearson Publication , Fifth Edition
Media Planning & Management
<ul style="list-style-type: none"> • Arpita Menon , Media Planning and Buying, Tata McGraw Hill Education Private Limited , Second Edition 2010 • Jack Z Sissors and Roger B. Baron, Advertising Media Planning, McGraw Hill Education India Pvt. Limited, Seventh Edition. • Larry Percy and Richard Elliott, Strategic Advertising Management , Oxford University Press, Second Edition • Larry d. Kelly and Donald W.Jugeneimer, Advertising Media Planning , PHI learning Private Limited, • Dennis .F.Herrick, Media Management in Age of Giants, Surjeet Publications • Charles Warner and Joseph Buchman, Media selling ,Surjeet Publication,3rd edition

**Revised Syllabus of Courses of Bachelor of Management Studies
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Reference Books

Reference Books
<p>Sports Marketing</p> <ul style="list-style-type: none"> • <i>Phil Schaaf -Sports Marketing - It's not just a game anymore .</i> • <i>Bernard J. Mullin (Author), Stephen Hardy (Author), William A. and Sutton (Author) - Sport Marketing</i> • <i>Larry DeGaris- Sports Marketing: A Practical Approach February 2015</i> • <i>Matthew D.Shank and Mark R. Lyberger, Sports Marketing: A Strategic Perspective, 5th edition3 October 2014</i> • <i>David Shilbury; Hans Westerbeek; Shayne Quick; Daniel Funk Allen & Unwin, 2009 (3rd edition), Strategic Sport Marketing</i>
<p>Marketing of Non-Profit Organisation</p> <ul style="list-style-type: none"> • <i>Philip Kotler & Alan R Andersan, Strategic Marketing for nonprofit organization, 07th Edition, 2008, Prentice Hall.</i> • <i>Banies, Fill & Rosengren (2016), Marketing, Oxford University Press.</i> • <i>TCC Group & The California Endowment Fund, what makes an effective advocacy organization – A framework for determining advocacy capacity, June 2009, TCC Group.</i> • <i>Global CSR Summit, A study by Ernst & Young and PHD Chamber, 2013.</i> • <i>PWC & CII, Handbook on Corporate Social responsibility, 2013, CII Development Initiative Council.</i> • <i>Sahu Pani, Non- Governmental Organisations Development Actors, 2010, Himalaya Publishing, New Delhi</i> • <i>O.P.Goel, Strategic Management & Policy issues of NGO's, 2004, Isha Books, Delhi</i> • <i>B.R., Nanda, NGO Management, 2010, Surendra Publications, New Delhi</i> • <i>Snehlata Chnadra,,Guidelines for NGOs Management in India, 2003, Kanishka Publishers, Distributors, New Delhi</i> • <i>Shilaja Nagendra, Voluntary Organisations & Social Work,2007, Oxford Book Company, Jaipur</i>
<p>HRM in Global Perspective</p> <ul style="list-style-type: none"> • <i>Peter J. Dowling, Marion Festing, Allen d. Engle Sr: International Human Resource Management, 5th Edition, Cengage Learning</i> • <i>P. L. Rao: International Human Resource Management, Text and Cases, Excel Books</i> • <i>Peer J. Dowling, Denice E. Welch and Randall S. Schuler (1999): International Human Resource Management, Managing People in a Multinational Context', South Western College Publishing.</i> • <i>Chris Brewster, Paul Sparrow and Guy Vernon, International Human Resource Management, The Universities Press</i> • <i>A.V.Phatak: International Dimensions of Management, Cincinnati, South Western College</i> • <i>Peter J. Dowling, Marion Festing, Allen D. Engle, International Human Resource Management, Thomson Learning.</i> • <i>Dennis R. Briscoe, Randall S. Schuler, International Human Resource Management: Policy and Practice for the Global Enterprise, Psychology Press</i> • <i>S C. Gupta: International Human Resource Management- Text and Cases, MacMillan Publishers</i>

**Revised Syllabus of Courses of Bachelor of Management Studies
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Reference Books

Reference Books
<p>Organisational Development</p> <ul style="list-style-type: none"> • Dr. Mrs. Anjali Ghanekar, <i>Essentials of Organisation Development</i>, Everest Publishing House • French, W.L. and Bell, C.H., <i>Organisation Development</i>, Prentice-Hall, New Delhi, 1995. • Harvey, D.F. and Brown, D.R., <i>An Experimental Approach to Organization Development</i>, Prentice-Hall, Englewood Cliffs, N.J., 1990 • Cummings, T. G. & Worley, C. G. (2009). <i>Organization Development and Change (9th edition)</i>. Canada: South-Western Cengage Learning • Thomas G. Cummings and Christopher G. Worley, <i>Organization Development and Change</i>, Thomson South-Western, 8th Edition 2004. • Cummings, T. G., <i>Theory of Organization Development and Change</i>, South Western. • Ramanarayan, S. and Rao, T.V., <i>Organization Development: Accelerating Learning and Transformation</i>, 2nd Edition, Sage India, 2011. • Richard L, <i>Organisation, Theory, Change and Design</i>, India Edition (Cengage Learning) • Garath R Jones, Mary Mathew, <i>Organisation Theory, Design and Change: Sixth Edition</i>, Pearson • Wendell L French, Cecil H Bell, Jr, Veena Vohra, <i>Organisation Development</i>, Sixth Edition, Pearson Education
<p>HRM in Service Sector Management</p> <ul style="list-style-type: none"> • C. Bhattacharjee: <i>Service Sector Management, An Indian Perspective</i>, Jaico Publishing House • Christopher Lovelock, Jochen Wirtz, Jayanta Chatterjee: <i>Services Marketing</i>, Pearson • Christopher Lovelock: <i>Services Marketing, People, Technology, Strategy</i>, Pearson Education Asia • James A. Fitzsimmons, Mona J, Fitzsimmons: <i>Service Management, Operations, Strategy, Information Technology</i>, Tata McGraw – Hill • Zeithmal, Bitner, Gremler, Pandit: <i>Services Marketing</i>, Tata McGraw – Hill • Lovelock, Wirtz: <i>Services Marketing</i>, Pearson Education, 5th Edition • K. Rao: <i>Services Marketing</i>, Pearson Education • Ramneek Kapoor, Justin Paul, Biplab Halder: <i>Services Marketing</i>
<p>Workforce Diversity</p> <ul style="list-style-type: none"> • Dessler Gary, <i>A Framework for Human Resource Management</i>, Pearson Publication, 7th Edition. • <i>Handbook of Research on Workforce Diversity in a Global Society</i>, edited by Scott, Chaunda L. • <i>Diversity in the Workforce: Current Issues and Emerging Trends</i> edited by Marilyn Y. Byrd, Chaunda L. Scott • <i>Managing Diversity: Human Resource Strategies for Transforming the Workplace</i> Ellen Ernst Kossek, Sharon A. Lobel • <i>Workforce Diversity Management: Challenges, Competencies and Strategies</i> - Bahaudin Mujtaba • <i>Handbook of Research on Organizational Culture and Diversity in the Modern</i>, edited by Christiansen, Bryan, Chandan, Harish C

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Reference Books

Reference Books
Human Resource Accounting & Auditing
<ul style="list-style-type: none"> • <i>HR Audit : Evaluating the human resource functions for business improvement</i> by T.V. Rao, Response Books • <i>Eric G. Flamholtz, Human Resource Accounting, Springer</i> • <i>Jac Fitzenz, How To Measure Human Resource Management, McGraw Hill</i> • <i>Rakesh Chandra Katiyar, Accounting For Human Resources , UK Publishing</i> • <i>M. Saeed, D.K. Kulsheshtha , Human Resource Accounting, Anmol Publications.</i> • <i>D. Prabakara Rao, Human Resource Accounting, Inter India Publications</i> • <i>Human Resource Management by Gary Dessler, Pearson Publications.</i> • <i>Rao, T.V. 2008. HRD Scorecard 2500, 1/e; New Delhi: Response Books</i> • <i>Udai Pareek and Rao T V (2003). Designing and Managing Human Resource</i>
Indian Ethos in Management
<ul style="list-style-type: none"> • <i>R Nandagopal, Ajith Sankar RN: Indian Ethics and Values in Management, Tata Mc Graw Hill</i> • <i>Bhatta, S.K., Business Ethics & Managerial Values.</i> • <i>Dave, Nalini V: Vedanta and Mana</i> • <i>Chakraborty, S.K.: Foundation of Managerial Work-Contributions from Indian Thought, Himalaya Publication House, Delhi 1998</i> • <i>Chakraborty, S.K.: Managerial Effectiveness and Quality of Work life – Indian Insights, Tata McGraw Hill Publishing Company, New Delhi – 1987</i> • <i>Chakraborty, S.K.: Management by Values, Oxford University Press 1991.</i> • <i>Nandagopal, Ajith Shankar, Indian Ethos and Values in Management, Tata Mc Graw Hill, 2010</i> • <i>Khandelwal Indian Ethos and Values for Managers, Himalaya Publishing House, 2009</i> • <i>Biswanath Ghosh, Ethics In Management and Indian Ethos, Vikas Publishing House, 2009</i> • <i>Joseph Des Jardins, An Introduction to Business Ethics , Tata Mc Graw Hill, 2009</i> • <i>S K Chakraborty, Management by Values, Oxford University Press, New Delhi, 2008</i>
Operation Research
<ul style="list-style-type: none"> • <i>Taha H.A., Operations Research - An Introduction, 6th Edition , Hall of India</i> • <i>Kapoor V.K., Operations Research Techniques for Management, 7th Edition, Sultan Chand & Sons</i> • <i>Kantiswarup, Gupta P.K. & Manmohan, Operations Research 9th Edition, Sultan Chand & Sons</i> • <i>Sharma S.D., Operations Research, 8th Edition, Kedarnath, Ramnath & Company</i> • <i>Bronson R, Operations Research, 2nd Edition, Shaum's Outline Series</i> • <i>Vora N.D, Quantitative Techniques in Management, 3rd Edition, Tata McGraw Hill co.</i> • <i>Shreenath L.S, Principles & Application 3rd Ed.,, PERT & CPM, Affiliated East-West Press Pvt. Ltd.</i> • <i>Wagener H.M., Principles of Operations Research 2nd Edition, Prentice - Hall of India</i> • <i>Sasieni M, Yaspan A & John Wiley & Sons Friedman L, Operations Research - Methods & Problems 1st Edition</i> • <i>Natrajan Balasubramani, Tamilarasi, Operations Research, Pearson Education</i> • <i>G. Hadley, Linear Programming, Narosa Book Distributors Private Ltd</i> • <i>L.C. Jhamb, Quantitative Techniques (For Managerial Decisions VOL I), Everest Publishing House, Pune.</i> • <i>Paul Loomba, Linear Programming, Tata McGraw Hill Publishing Co. Ltd.</i> • <i>Aditham B. Rao , Operations Research Edition 2008, Jaico Publishing House, Mumbai</i>

University of Mumbai



**Bachelor of Management Studies
Programme
Guidelines for Project Work
at
Third Year
Semester VI**

**Under Choice Based Credit, Grading and
Semester System**

(To be implemented from Academic Year 2018-2019)

Board of Studies-in-Business Management

Introduction

Inclusion of project work in the course curriculum of the Bachelor of Management Studies programme is one of the ambitious aspects in the programme structure. The main objective of inclusion of project work is to inculcate the element of research analyse and scientific temperament challenging the potential of learner as regards to his/ her eager to enquire and ability to interpret particular aspect of the study. It is expected that the guiding teacher should undertake the counselling sessions and make the awareness among the learners about the methodology of formulation, preparation and evaluation pattern of the project work.

- There are two modes of preparation of project work
 1. Project work based on research methodology in the study area
 2. Project work based on internship in the study area

Guidelines for preparation of Project Work

1. General guidelines for preparation of project work based on Research Methodology

- The project topic may be undertaken in any area of Elective Courses.
- Each of the learner has to undertake a Project individually under the supervision of a teacher-guide.
- The learner shall decide the topic and title which should be specific, clear and with definite scope in consultation with the teacher-guide concerned.
- University/college shall allot a guiding teacher for guidance to the students based on her / his specialization.
- The project report shall be prepared as per the broad guidelines given below:
 - Font type: Times New Roman
 - Font size: 12-For content, 14-for Title
 - Line Space : 1.5-for content and 1-for in table work
 - Paper Size: A4
 - Margin : in Left-1.5, Up-Down-Right-1
 - The Project Report shall be bounded.
 - The project report should be 80 to 100 pages

Format

1st page (Main Page)

Title of the problem of the Project

**A Project Submitted to
University of Mumbai for partial completion of the degree of
Bachelor of Management Studies
Under the Faculty of Commerce**

By

Name of the Learner

Under the Guidance of

Name of the Guiding Teacher

Name and address of the College

Month and Year

2nd Page

This page to be repeated on 2nd page (i.e. inside after main page)

On separate page

Index

Chapter No. 1 (sub point 1.1, 1.1.1, And so on)	Title of the Chapter	Page No.
Chapter No. 2	Title of the Chapter	
Chapter No. 3	Title of the Chapter	
Chapter No. 4	Title of the Chapter	
Chapter No. 5	Title of the Chapter	

List of tables, if any, with page numbers.

List of Graphs, if any, with page numbers.

List of Appendix, if any, with page numbers.

Abbreviations used:

Structure to be followed to maintain the uniformity in formulation and presentation of Project Work

(Model Structure of the Project Work)

- **Chapter No. 1: Introduction**

In this chapter Selection and relevance of the problem, historical background of the problem, brief profile of the study area, definition/s of related aspects, characteristics, different concepts pertaining to the problem etc can be incorporated by the learner.

- **Chapter No. 2: Research Methodology**

This chapter will include Objectives, Hypothesis, Scope of the study, limitations of the study, significance of the study, Selection of the problem, Sample size, Data collection, Tabulation of data, Techniques and tools to be used, etc can be incorporated by the learner.

- **Chapter No. 3: Literature Review**

This chapter will provide information about studies done on the respective issue. This would specify how the study undertaken is relevant and contribute for value addition in information/ knowledge/ application of study area which ultimately helps the learner to undertake further study on same issue.

- **Chapter No. 4: Data Analysis, Interpretation and Presentation**

This chapter is the core part of the study. The analysis pertaining to collected data will be done by the learner. The application of selected tools or techniques will be used to arrive at findings. In this, table of information's, presentation of graphs etc. can be provided with interpretation by the learner.

- **Chapter No. 5: Conclusions and Suggestions**

In this chapter of project work, findings of work will be covered and suggestion will be enlisted to validate the objectives and hypotheses.

Note: If required more chapters of data analysis can be added.

- **Bibliography**
- **Appendix**

On separate page

Name and address of the college

Certificate

This is to certify that Ms/Mr _____ has worked and duly completed her/his Project Work for the degree of Bachelor of Management Studies under the Faculty of Commerce in the subject of _____ and her/his project is entitled, “ _____ *Title of the Project* _____ ” under my supervision.

I further certify that the entire work has been done by the learner under my guidance and that no part of it has been submitted previously for any Degree or Diploma of any University.

It is her/ his own work and facts reported by her/his personal findings and investigations.



Name and Signature of
Guiding Teacher

Date of submission:

On separate page

Declaration by learner

I the undersigned Miss / Mr. _____ *Name of the learner* _____ here by,
declare that the work embodied in this project work titled “ _____
_____ *Title of the Project* _____ ”,
forms my own contribution to the research work carried out under the guidance of
_____ *Name of the guiding teacher* _____ is a result of my own research work and has
not been previously submitted to any other University for any other Degree/ Diploma
to this or any other University.

Wherever reference has been made to previous works of others, it has been clearly
indicated as such and included in the bibliography.

I, here by further declare that all information of this document has been obtained and
presented in accordance with academic rules and ethical conduct.

Name and Signature of the learner

Certified by

Name and signature of the Guiding Teacher

On separate page

Acknowledgment

(Model structure of the acknowledgement)

To list who all have helped me is difficult because they are so numerous and the depth is so enormous.

I would like to acknowledge the following as being idealistic channels and fresh dimensions in the completion of this project.

I take this opportunity to thank the **University of Mumbai** for giving me chance to do this project.

I would like to thank my **Principal**, _____ for providing the necessary facilities required for completion of this project.

I take this opportunity to thank our **Coordinator** _____, for her moral support and guidance.

I would also like to express my sincere gratitude towards my project guide _____ whose guidance and care made the project successful.

I would like to thank my **College Library**, for having provided various reference books and magazines related to my project.

Lastly, I would like to thank each and every person who directly or indirectly helped me in the completion of the project especially **my Parents and Peers** who supported me throughout my project.

2. Guidelines for Internship based project work

- Minimum 20 days/ 100 hours of Internship with an Organisation/ NGO/ Charitable Organisation/ Private firm.
- The theme of the internship should be based on any study area of the elective courses
- Experience Certificate is Mandatory
- A project report has to be brief in content and must include the following aspects:
 - **Executive Summary:**
A bird's eye view of your entire presentation has to be precisely offered under this category.
 - **Introduction on the Company:**
A Concise representation of company/ organization defining its scope, products/ services and its SWOT analysis.
 - **Statement and Objectives:**
The mission and vision of the organization need to be stated enshrining its broad strategies.
 - **Your Role in the Organisation during the internship:**
The key aspects handled, the department under which you were deployed and brief summary report duly acknowledged by the reporting head.
 - **Challenges:**
The challenges confronted while churning out theoretical knowledge into practical world.
 - **Conclusion:**
A brief overview of your experience and suggestions to bridge the gap between theory and practice.
- The project report based on internship shall be prepared as per the broad guidelines given below:
 - Font type: Times New Roman
 - Font size: 12-For content, 14-for Title
 - Line Space : 1.5-for content and 1-for in table work
 - Paper Size: A4
 - Margin : in Left-1.5, Up-Down-Right-1
 - The Project Report shall be bounded.
 - The project report should be of minimum 50 pages

Evaluation pattern of the project work

The Project Report shall be evaluated in two stages viz.	
• Evaluation of Project Report (Bound Copy)	60 Marks
▪ Introduction and other areas covered	20 Marks
▪ Research Methodology, Presentation, Analysis and interpretation of data	30 Marks
▪ Conclusion & Recommendations	10 Marks
• Conduct of Viva-voce	40 Marks
▪ In the course of Viva-voce, the questions may be asked such as importance / relevance of the study, objective of the study, methodology of the study/ mode of Enquiry (question responses)	10 Marks
▪ Ability to explain the analysis, findings, concluding observations, recommendation, limitations of the Study	20 Marks
▪ Overall Impression (including Communication Skill)	10 Marks

Note:

- *The guiding teacher along with the external evaluator appointed by the University/ College for the evaluation of project shall conduct the viva-voce examination as per the evaluation pattern*

Passing Standard

- Minimum of Grade E in the project component
- In case of failing in the project work, the same project can be revised for ATKT examination.
- Absence of student for viva voce: If any student fails to appear for the viva voce on the date and time fixed by the department such student shall appear for the viva voce on the date and time fixed by the Department, such student shall appear for the viva voce only along with students of the next batch.

**Revised Syllabus of Courses of Bachelor of Management Studies Programme
at Semester V and VI
with effect from the Academic Year 2018-2019**

Scheme of Evaluation

The performance of the learners will be evaluated in two Components. One component will be the Internal Assessment component carrying 25% marks and the second component will be the Semester-wise End Examination component carrying 75% marks. The allocation of marks for the Internal Assessment and Semester End Examinations will be as shown below:-

A) Internal Assessment: 25 %

Question Paper Pattern

(Internal Assessment- Courses without Practical Courses)

Sr. No.	Particular	Marks
1	One class test (20 Marks)	
	Match the Column/ Fill in the Blanks/ Multiple Choice Questions <i>(½ Mark each)</i>	05 Marks
	Answer in One or Two Lines (Concept based Questions) <i>(01 Mark each)</i>	05 Marks
	Answer in Brief (Attempt Any Two of the Three) <i>(05 Marks each)</i>	10 Marks
2	Active participation in routine class instructional deliveries and overall conduct as a responsible learner, mannerism and articulation and exhibit of leadership qualities in organizing related academic activities	05 Marks

B) Semester End Examination: 75 %

- i) Duration: The examination shall be of 2 ½ Hours duration
- ii) Theory question paper pattern
 - There shall be five questions each of 15 marks.
 - All questions shall be compulsory with internal choice within the questions.
 - Question may be subdivided into sub-questions a, b, c... and the allocation of marks depends on the weightage of the topic.

(Detail question paper pattern has been given separately)

❖ Passing Standard

The learners to pass a course shall have to obtain a minimum of 40% marks in aggregate for each course where the course consists of Internal Assessment and Semester End Examination. The learners shall obtain minimum of 40% marks (i.e. 10 out of 25) in the Internal Assessment and 40% marks in Semester End Examination (i.e. 30 Out of 75) separately, to pass the course and minimum of Grade E to pass a particular semester A learner will be said to have passed the course if the learner passes the Internal Assessment and Semester End Examination together.

Question Paper Pattern (Practical Courses)

Maximum Marks: 75

Questions to be set: 05

Duration: 2 1/2 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Objective Questions A. Sub Questions to be asked 10 and to be answered any 08 B. Sub Questions to be asked 10 and to be answered any 07 (*Multiple choice / True or False / Match the columns/Fill in the blanks)	15 Marks
Q-2	Full Length Practical Question OR	15 Marks
Q-2	Full Length Practical Question	15 Marks
Q-3	Full Length Practical Question OR	15 Marks
Q-3	Full Length Practical Question	15 Marks
Q-4	Full Length Practical Question OR	15 Marks
Q-4	Full Length Practical Question	15 Marks
Q-5	A) Theory questions B) Theory questions OR	08 Marks 07 Marks
Q-5	Short Notes To be asked 05 To be answered 03	15 Marks

Note:

Practical question of 15 marks may be divided into two sub questions of 7/8 and 10/5Marks. If the topic demands, instead of practical questions, appropriate theory question may be asked.

Question Paper Pattern (Theoretical Courses)

Maximum Marks: 75

Questions to be set: 05

Duration: 2 1/2 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Objective Questions A) Sub Questions to be asked 10 and to be answered any 08 B) Sub Questions to be asked 10 and to be answered any 07 (*Multiple choice / True or False / Match the columns/Fill in the blanks)	15 Marks
Q-2	Full Length Question OR	15 Marks
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question OR	15 Marks
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question OR	15 Marks
Q-4	Full Length Question	15 Marks
Q-5	A) Theory questions B) Theory questions OR	08 Marks 07 Marks
Q-5	Short Notes To be asked 05 To be answered 03	15 Marks

Note:

Theory question of 15 marks may be divided into two sub questions of 7/8 and 10/5Marks.

UNIVERSITY OF MUMBAI

No. UG/76 of 2018-19

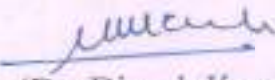
CIRCULAR:-

Attention of the Principals of the affiliated Colleges and Directors of the recognized Institutions in Science & Technology Faculty is invited to this office Circular Nos. UG/66 of 2012-13, dated 12th September, 2012 relating to syllabus of the Bachelor of Science (B.Sc.) programme in the course of Information Technology.

They are hereby informed that the recommendations made by the Ad-hoc Board of Studies in Information Technology at its meeting held on 8th June, 2018 have been accepted by the Academic Council at its meeting held on 14th June, 2018 vide item No. 4.49 and that in accordance therewith, the revised syllabus as per the (CBCS) for the T.Y.B.Sc. in Information Technology (Sem - V & VI), has been brought into force with effect from the academic year 2018-19, accordingly. (The same is available on the University's website www.mu.ac.in).

MUMBAI - 400 032

To 6th June, 2018
July


(Dr. Dinesh Kamble)
I/c REGISTRAR

The Principals of the affiliated Colleges & Directors of the recognized Institutions in Science & Technology Faculty. (Circular No. UG/334 of 2017-18 dated 9th January, 2018.)

A.C./4.49/14/06/2018

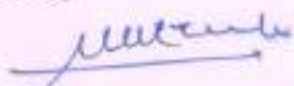
No. UG/ 76 -A of 2018

MUMBAI-400 032

6th June, 2018
July

Copy forwarded with Compliments for information to:-

- 1) The I/c Dean, Faculty of Science & Technology,
- 2) The Chairman, Ad-hoc Board of Studies in Information Technology,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Co-Ordinator, University Computerization Centre,


(Dr. Dinesh Kamble)
I/c REGISTRAR

Academic Council 14/06/2018

Item No:4.49

UNIVERSITY OF MUMBAI



Syllabus for T.Y.B.Sc.

Programme: B.Sc.

Subject: Information Technology

(Choice Based Credit System)

(with effect from the academic year 2018 – 2019)

Semester – 5			
Course Code	Course Type	Course Title	Credits
USIT501	Skill Enhancement Course	Software Project Management	2
USIT502	Skill Enhancement Course	Internet of Things	2
USIT503	Skill Enhancement Course	Advanced Web Programming	2
USIT504	Discipline Specific Elective (Any One)	Artificial Intelligence	2
USIT505		Linux System Administration	
USIT506	Discipline Specific Elective (Any One)	Enterprise Java	2
USIT507		Next Generation Technologies	
USIT5P1	Skill Enhancement Course Practical	Project Dissertation	2
USIT5P2	Skill Enhancement Course Practical	Internet of Things Practical	2
USIT5P3	Skill Enhancement Course Practical	Advanced Web Programming Practical	2
USIT5P4	Discipline Specific Elective Practical (Any One)*	Artificial Intelligence Practical	2
USIT5P5		Linux Administration Practical	
USIT5P6	Discipline Specific Elective Practical (Any One)*	Enterprise Java Practical	2
USIT5P7		Next Generation Technologies Practical	
Total Credits			20

(All the practical mentioned in the syllabi are compulsory as per the courses chosen)

Semester – 6			
Course Code	Course Type	Course Title	Credits
USIT601	Skill Enhancement Course	Software Quality Assurance	2
USIT602	Skill Enhancement Course	Security in Computing	2
USIT603	Skill Enhancement Course	Business Intelligence	2
USIT604	Discipline Specific Elective (Any One)	Principles of Geographic Information Systems	2
USIT605		Enterprise Networking	
USIT606	Discipline Specific Elective (Any One)	IT Service Management	2
USIT607		Cyber Laws	
USIT6P1	Skill Enhancement Course Practical	Project Implementation	2
USIT6P2	Skill Enhancement Course Practical	Security in Computing Practical	2
USIT6P3	Skill Enhancement Course Practical	Business Intelligence Practical	2
USIT6P4	Discipline Specific Elective Practical (Any One)*	Principles of Geographic Information Systems Practical	2
USIT6P5		Enterprise Networking Practical	
USIT6P6	Skill Enhancement Course Practical	Advanced Mobile Programming	2
Total Credits			20

***The choice of Practical course is based on the theory Course. For Semester V, USIT504, USIT505, USIT506 and USIT507, the practical courses are USIT5P4, USIT5P5, USIT5P6, USIT5P7. For Semester VI, USIT604, USIT605 the practical courses are USIT6P4, USIT6P5 respectively. Practical Course USIT6P6 is compulsory.**

SEMESTER V

B. Sc. (Information Technology)		Semester – V	
Course Name: Software Project Management		Course Code: USIT501	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Introduction to Software Project Management:Introduction, Why is Software Project Management Important? What is a Project? Software Projects versus Other Types of Project, Contract Management and Technical Project Management, Activities Covered by Software Project Management, Plans, Methods and Methodologies, Some Ways of Categorizing Software Projects, Project Charter, Stakeholders, Setting Objectives, The Business Case, Project Success and Failure, What is Management? Management Control, Project Management Life Cycle, Traditional versus Modern Project Management Practices.</p> <p>Project Evaluation and Programme Management: Introduction, Business Case, Project Portfolio Management, Evaluation of Individual Projects, Cost–benefit Evaluation Techniques, Risk Evaluation, Programme Management, Managing the Allocation of Resources within Programmes, Strategic Programme Management, Creating a Programme, Aids to Programme Management, Some Reservations about Programme Management, Benefits Management.</p> <p>An Overview of Project Planning:Introduction to Step Wise Project Planning, Step 0: Select Project, Step 1: Identify Project Scope and Objectives, Step 2: Identify Project Infrastructure, Step 3: Analyse Project Characteristics, Step 4: Identify Project Products and Activities, Step 5: Estimate Effort for Each Activity, Step 6: Identify Activity Risks, Step 7: Allocate Resources, Step 8: Review/Publicize Plan, Steps 9 and 10: Execute Plan/Lower Levels of Planning</p>	12
II	<p>Selection of an Appropriate Project Approach:Introduction, Build or Buy? Choosing Methodologies and Technologies, Software Processes and Process Models, Choice of Process Models, Structure versus Speed of Delivery, The Waterfall Model, The Spiral Model, Software Prototyping, Other Ways of Categorizing Prototypes, Incremental Delivery, Atern/Dynamic Systems Development Method, Rapid Application Development, Agile Methods, Extreme Programming (XP), Scrum, Lean Software Development, Managing Iterative Processes, Selecting the Most Appropriate Process Model.</p> <p>Software Effort Estimation:Introduction, Where are the Estimates Done? Problems with Over- and Under-Estimates, The Basis for Software Estimating, Software Effort Estimation Techniques, Bottom-up Estimating, The Top-down Approach and Parametric Models, Expert Judgement, Estimating by Analogy, Albrecht Function Point</p>	12

	Analysis, Function Points Mark II, COSMIC Full Function Points, COCOMO II: A Parametric Productivity Model, Cost Estimation, Staffing Pattern, Effect of Schedule Compression, Capers Jones Estimating Rules of Thumb.	
III	<p>Activity Planning: Introduction, Objectives of Activity Planning, When to Plan, Project Schedules, Projects and Activities, Sequencing and Scheduling Activities, Network Planning Models, Formulating a Network Model, Adding the Time Dimension, The Forward Pass, Backward Pass, Identifying the Critical Path, Activity Float, Shortening the Project Duration, Identifying Critical Activities, Activity-on-Arrow Networks.</p> <p>Risk Management: Introduction, Risk, Categories of Risk, Risk Management Approaches, A Framework for Dealing with Risk, Risk Identification, Risk Assessment, Risk Planning, Risk Management, Evaluating Risks to the Schedule, Boehm’s Top 10 Risks and Counter Measures, Applying the PERT Technique, Monte Carlo Simulation, Critical Chain Concepts.</p> <p>Resource Allocation: Introduction, Nature of Resources, Identifying Resource Requirements, Scheduling Resources, Creating Critical Paths, Counting the Cost, Being Specific, Publishing the Resource Schedule, Cost Schedules, Scheduling Sequence.</p>	12
IV	<p>Monitoring and Control: Introduction, Creating the Framework, Collecting the Data, Review, Visualizing Progress, Cost Monitoring, Earned Value Analysis, Prioritizing Monitoring, Getting the Project Back to Target, Change Control, Software Configuration Management (SCM).</p> <p>Managing Contracts: Introduction, Types of Contract, Stages in Contract Placement, Typical Terms of a Contract, Contract Management, Acceptance.</p> <p>Managing People in Software Environments: Introduction, Understanding Behaviour, Organizational Behaviour: A Background, Selecting the Right Person for the Job, Instruction in the Best Methods, Motivation, The Oldham–Hackman Job Characteristics Model, Stress, Stress Management, Health and Safety, Some Ethical and Professional Concerns.</p>	12
V	<p>Working in Teams: Introduction, becoming a Team, Decision Making, Organization and Team Structures, Coordination Dependencies, Dispersed and Virtual Teams, Communication Genres, Communication Plans, Leadership.</p> <p>Software Quality: Introduction, The Place of Software Quality in Project Planning, Importance of Software Quality, Defining Software Quality, Software Quality Models, ISO 9126, Product and Process Metrics, Product versus Process Quality Management, Quality Management Systems, Process Capability Models, Techniques to Help Enhance Software Quality, Testing, Software Reliability, Quality Plans.</p> <p>Project Closeout: Introduction, Reasons for Project Closure, Project</p>	12

	Closure Process, Performing a Financial Closure, Project Closeout Report.	
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Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Software Project Management	Bob Hughes, Mike Cotterell, Rajib Mall	TMH	6 th	2018
2.	Project Management and Tools & Technologies – An overview	Shailesh Mehta	SPD	1st	2017
3.	Software Project Management	Walker Royce	Pearson		2005

B. Sc. (Information Technology)	Semester – V
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Course Name: Internet of Things		Course Code: USIT502	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>The Internet of Things: An Overview: The Flavour of the Internet of Things, The “Internet” of “Things”, The Technology of the Internet of Things, Enchanted Objects, Who is Making the Internet of Things?</p> <p>Design Principles for Connected Devices: Calm and Ambient Technology, Magic as Metaphor, Privacy, Keeping Secrets, Whose Data Is It Anyway? Web Thinking for Connected Devices, Small Pieces, Loosely Joined, First-Class Citizens on The Internet, Graceful Degradation, Affordances.</p> <p>Internet Principles: Internet Communications: An Overview, IP, TCP, The IP Protocol Suite (TCP/IP), UDP, IP Addresses, DNS, Static IP Address Assignment, Dynamic IP Address Assignment, IPv6, MAC Addresses, TCP and UDP Ports, An Example: HTTP Ports, Other Common Ports, Application Layer Protocols, HTTP, HTTPS: Encrypted HTTP, Other Application Layer Protocols.</p>	12
II	<p>Thinking About Prototyping: Sketching, Familiarity, Costs versus Ease of Prototyping, Prototypes and Production, Changing Embedded Platform, Physical Prototypes and Mass Personalisation, climbing into the Cloud, Open Source versus Closed Source, Why Closed? Why Open? Mixing Open and Closed Source, Closed Source for Mass Market Projects, Tapping into the Community.</p> <p>Prototyping Embedded Devices: Electronics, Sensors, Actuators, Scaling Up the Electronics, Embedded Computing Basics, Microcontrollers, System-on-Chips, Choosing Your Platform, Arduino, developing on the Arduino, Some Notes on the Hardware, Openness, Raspberry Pi, Cases and Extension Boards, Developing on the Raspberry Pi, Some Notes on the Hardware, Openness.</p>	12
III	<p>Prototyping the Physical Design: Preparation, Sketch, Iterate, and Explore, Nondigital Methods, Laser Cutting, Choosing a Laser Cutter, Software, Hinges and Joints, 3D Printing, Types of 3D Printing, Software, CNC Milling, Repurposing/Recycling.</p> <p>Prototyping Online Components: Getting Started with an API, Mashing Up APIs, Scraping, Legalities, writing a New API, Clockodillo, Security, implementing the API, Using Curl to Test, Going Further, Real-Time Reactions, Polling, Comet, Other Protocols, MQ Telemetry Transport, Extensible Messaging and Presence Protocol, Constrained Application Protocol.</p>	12
IV	Techniques for Writing Embedded Code: Memory Management,	12

	Types of Memory, Making the Most of Your RAM, Performance and Battery Life, Libraries, Debugging. Business Models: A Short History of Business Models, Space and Time, From Craft to Mass Production, The Long Tail of the Internet, Learning from History, The Business Model Canvas, Who Is the Business Model For? Models, Make Thing, Sell Thing, Subscriptions, Customisation, be a Key Resource, Provide Infrastructure: Sensor Networks, take a Percentage, Funding an Internet of Things Startup, Hobby Projects and Open Source, Venture Capital, Government Funding, Crowdfunding, Lean Startups.	
V	Moving to Manufacture: What Are You Producing? Designing Kits, Designing Printed circuit boards, Software Choices, The Design Process, Manufacturing Printed Circuit Boards, Etching Boards, Milling Boards. Assembly, Testing, Mass-Producing the Case and Other Fixtures, Certification, Costs, Scaling Up Software, Deployment, Correctness and Maintainability, Security, Performance, User Community. Ethics: Characterizing the Internet of Things, Privacy, Control, Disrupting Control, Crowdsourcing, Environment, Physical Thing, Electronics, Internet Service, Solutions, The Internet of Things as Part of the Solution, Cautious Optimism, The Open Internet of Things Definition.	12

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Designing the Internet of Things	Adrian McEwen, Hakim Cassimally	WILEY	First	2014
2.	Internet of Things – Architecture and Design	Raj Kamal	McGraw Hill	First	2017
3.	Getting Started with the Internet of Things	Cuno Pfister	O'Reilly	Sixth	2018
4.	Getting Started with Raspberry Pi	Matt Richardson and Shawn Wallace	SPD	Third	2016

B. Sc. (Information Technology)		Semester – V	
Course Name: Advanced Web Programming		Course Code: USIT503	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Introducing .NET: The .NET Framework, C#, VB, and the .NET Languages, The Common Language Runtime, The .NET Class Library.</p> <p>The C# Language: C# Language Basics, Variables and Data Types, Variable Operations, Object-Based Manipulation, Conditional Logic, Loops, Methods.</p> <p>Types, Objects, and Namespaces: The Basics About Classes, Building a Basic Class, Value Types and Reference Types, Understanding Namespaces and Assemblies, Advanced Class Programming.</p>	12
II	<p>Web Form Fundamentals: Writing Code, Using the Code-Behind Class, Adding Event Handlers, Understanding the Anatomy of an ASP.NET Application, Introducing Server Controls, Using the Page Class, Using Application Events, Configuring an ASP.NET Application.</p> <p>Form Controls: Stepping Up to Web Controls, Web Control Classes, List Controls, Table Controls, Web Control Events and AutoPostBack, Validation, Understanding Validation, Using the Validation Controls, Rich Controls, The Calendar, The AdRotator, Pages with Multiple Views, User Controls and Graphics, User Controls, Dynamic Graphics, The Chart Control, Website Navigation: Site Maps, URL Mapping and Routing, The SiteMapPath Control, The TreeView Control, The Menu Control.</p>	12
III	<p>Error Handling, Logging, and Tracing: Avoiding Common Errors, Understanding Exception Handling, Handling Exceptions, Throwing Your Own Exceptions, Using Page Tracing</p> <p>State Management: Understanding the Problem of State, Using View State, Transferring Information Between Pages, Using Cookies, Managing Session State, Configuring Session State, Using Application State, Comparing State Management Options</p> <p>Styles, Themes, and Master Pages: Styles, Themes, Master Page Basics, Advanced Master Pages,</p>	12
IV	<p>ADO.NET Fundamentals: Understanding Databases, Configuring Your Database, Understanding SQL Basics, Understanding the Data Provider Model, Using Direct Data Access, Using Disconnected Data Access.</p> <p>Data Binding: Introducing Data Binding, Using Single-Value Data Binding, Using Repeated-Value Data Binding, Working with Data</p>	12

	Source Controls, The Data Controls: The GridView, Formatting the GridView, selecting a GridView Row, Editing with the GridView, Sorting and Paging the GridView, Using GridView Templates, The DetailsView and FormView	
V	XML: XML Explained, The XML Classes, XML Validation, XML Display and Transforms. Security Fundamentals: Understanding Security Requirements, Authentication and Authorization, Forms Authentication, Windows Authentication. ASP.NET AJAX: Understanding Ajax, Using Partial Refreshes, Using Progress Notification, Implementing Timed Refreshes, Working with the ASP.NET AJAX Control Toolkit.	12

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Beginning ASP.NET 4.5 in C#	Matthew MacDonald	Apress		2012
2.	C# 2015	Anne Bohem and Joel Murach	Murach	Third	2016
3.	Murach's ASP.NET 4.6 Web Programming in C#2015	Mary Delamater and Anne Bohem	SPD	Sixth	2016
4.	ASP.NET 4.0 programming	J. Kanjilal	Tata McGraw-Hill		2011
5.	Programming ASP.NET	D.Esposito	Microsoft Press (Dreamtech)		2011
6.	Beginning Visual C# 2010	K. Watson, C. Nagel, J.H Padderson, J.D. Reid, M.Skinner	Wrox (Wiley)		2010

B. Sc. (Information Technology)		Semester – V	
Course Name: Artificial Intelligence		Course Code: USIT504 (Elective I)	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	Introduction: What is Artificial Intelligence? Foundations of AI, history, the state of art AI today. Intelligent Agents: agents and environment, good behavior, nature of environment, the structure of agents.	12
II	Solving Problems by Searching: Problem solving agents, examples problems, searching for solutions, uninformed search, informed search strategies, heuristic functions. Beyond Classical Search: local search algorithms, searching with non-deterministic action, searching with partial observations, online search agents and unknown environments.	12
III	Adversarial Search: Games, optimal decisions in games, alpha-beta pruning, stochastic games, partially observable games, state-of-the-art game programs. Logical Agents: Knowledge base agents, The Wumpus world, logic, propositional logic, propositional theorem proving, effective propositional model checking, agents based on propositional logic.	12
IV	First Order Logic: Syntax and semantics, using First Order Logic, Knowledge engineering in First Order Logic. Inference in First Order Logic: propositional vs. First Order, unification and lifting, forward and backward chaining, resolution.	12
V	Planning: Definition of Classical Planning, Algorithms for planning as state space search, planning graphs, other classical planning approaches, analysis of planning approaches, Time, Schedules and resources, hierarchical planning, Planning and Acting in Nondeterministic Domains, multiagent planning, Knowledge Representation: Categories and Objects, events, mental events and objects, reasoning systems for categories, reasoning with default information, Internet shopping world	12

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Artificial Intelligence: A Modern Approach	Stuart Russel and Peter Norvig	Pearson	3 rd	2015

2.	A First Course in Artificial Intelligence	Deepak Khemani	TMH	First	2017
3.	Artificial Intelligence: A Rational Approach	Rahul Deva	Shroff publishers	1 st	2018
4.	Artificial Intelligence	Elaine Rich, Kevin Knight and Shivashankar Nair	TMH	3 rd	2009
5.	Artificial Intelligence & Soft Computing for Beginners	Anandita Das Bhattacharjee	SPD	1 st	2013

B. Sc. (Information Technology)		Semester – V	
Course Name: Linux System Administration		Course Code: USIT505 (Elective I)	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Introduction to Red Hat Enterprise Linux: Linux, Open Source and Red Hat, Origins of Linux, Distributions, Duties of Linux System Administrator.</p> <p>Command Line: Working with the Bash Shell, Getting the Best of Bash, Useful Bash Key Sequences, Working with Bash History, Performing Basic File System Management Tasks, Working with Directories, Piping and Redirection, Finding Files</p> <p>System Administration Tasks: Performing Job Management Tasks, System and Process Monitoring and Management, Managing Processes with ps, Sending Signals to Processes with the kill Command, using top to Show Current System Activity, Managing Process Niceness, Scheduling Jobs, Mounting Devices, Working with Links, Creating Backups, Managing Printers, Setting Up System Logging, Setting Up Rsyslog, Common Log Files, Setting Up Logrotate</p> <p>Managing Software: Understanding RPM, Understanding Meta Package Handlers, Creating Your Own Repositories, Managing Repositories, Installing Software with Yum, Querying Software, Extracting Files from RPM Packages</p>	12
II	<p>Configuring and Managing Storage: Understanding Partitions and Logical Volumes, Creating Partitions, Creating File Systems, File Systems Overview, Creating File Systems, Changing File System Properties, Checking the File System Integrity, Mounting File Systems Automatically Through fstab, Working with Logical Volumes, Creating Logical Volumes, Resizing Logical Volumes, Working with Snapshots, Replacing Failing Storage Devices, Creating Swap Space, Working with Encrypted Volumes</p> <p>Connecting to the Network: Understanding NetworkManager, Working with Services and Runlevels, Configuring the Network with NetworkManager, Working with system-config-network, NetworkManager Configuration Files, Network Service Scripts, Networking from the Command Line, Troubleshooting Networking, Setting Up IPv6, Configuring SSH, Enabling the SSH Server, Using the SSH Client, Using PuTTY on Windows Machines, Configuring Key-Based SSH Authentication, Using Graphical Applications with SSH, Using SSH Port Forwarding, Configuring VNC Server Access</p>	12

	<p>Working with Users, Groups, and Permissions: Managing Users and Groups, Commands for User Management, Managing Passwords, Modifying and Deleting User Accounts, Configuration Files, Creating Groups, Using Graphical Tools for User, and Group Management, Using External Authentication Sources, the Authentication Process, sssd, nsswitch, Pluggable Authentication Modules, Managing Permissions, the Role of Ownership, Basic Permissions: Read, Write, and Execute, Advanced Permissions, Working with Access Control Lists, Setting Default Permissions with umask, Working with Attributes</p>	
III	<p>Securing Server with iptables: Understanding Firewalls, Setting Up a Firewall with system-config-firewall, Allowing Services, Trusted Interfaces, Masquerading, Configuration Files, Setting Up a Firewall with iptables, Tables, Chains, and Rules, Composition of Rule, Configuration Example, Advanced iptables Configuration, Configuring Logging, The Limit Module, Configuring NAT</p> <p>Setting Up Cryptographic Services: Introducing SSL, Proof of Authenticity: The Certificate Authority, Managing Certificates with openssl, Creating a Signing Request, Working with GNU Privacy Guard, Creating GPG Keys, Key Transfer, Managing GPG Keys, Encrypting Files with GPG, GPG Signing, Signing RPM Files</p> <p>Configuring Server for File Sharing: What is NFS? Advantages and Disadvantages of NFS, Configuring NFS4, Setting Up NFSv4, Mounting an NFS Share, Making NFS Mounts Persistent, Configuring Automount, Configuring Samba, Setting Up a Samba File Server, Samba Advanced Authentication Options, Accessing Samba Shares, Offering FTP Services.</p>	12
IV	<p>Configuring DNS and DHCP: Introduction to DNS, The DNS Hierarchy, DNS Server Types, The DNS Lookup Process, DNS Zone Types, Setting Up a DNS Server, Setting Up a Cache-Only Name Server, Setting Up a Primary Name Server, Setting Up a Secondary Name Server, Understanding DHCP, Setting Up a DHCP Server</p> <p>Setting Up a Mail Server: Using the Message Transfer Agent, the Mail Delivery Agent, the Mail User Agent, Setting Up Postfix as an SMTP Server, Working with Mutt, Basic Configuration, Internet Configuration, Configuring Dovecot for POP and IMAP</p> <p>Configuring Apache on Red Hat Enterprise Linux: Configuring the Apache Web Server, creating a Basic Website, Understanding the Apache Configuration Files, Apache Log Files, Working with Virtual Hosts, Securing the Web Server with TLS Certificates, Configuring Authentication, Setting Up Authentication with .htpasswd, Configuring LDAP Authentication, Setting Up MySQL</p>	12

V	<p>Introducing Bash Shell Scripting: Introduction, Elements of a Good Shell Script, Executing the Script, Working with Variables and Input, Understanding Variables, Variables, Subshells, and Sourcing, Working with Script Arguments, Asking for Input, Using Command Substitution, Substitution Operators, Changing Variable Content with Pattern Matching, Performing Calculations, Using Control Structures, Using if...then...else, Using case, Using while, Using until, Using for, Configuring booting with GRUB.</p> <p>High-Availability Clustering: High-Availability Clustering, The Workings of High Availability, High-Availability Requirements, Red Hat High-Availability Add-on Software, Components, Configuring Cluster-Based Services, Setting Up Bonding, Setting Up Shared Storage, Installing the Red Hat High Availability Add-On, Building the Initial State of the Cluster, Configuring Additional Cluster Properties, Configuring a Quorum Disk, Setting Up Fencing, Creating Resources and Services, Troubleshooting a Nonoperational Cluster, Configuring GFS2 File Systems</p> <p>Setting Up an Installation Server: Configuring a Network Server as an Installation Server, Setting Up a TFTP and DHCP Server for PXE Boot, Installing the TFTP Server, Configuring DHCP for PXE Boot, Creating the TFTP PXE Server Content, creating a Kickstart File, Using a Kickstart File to Perform an Automated, Installation, Modifying the Kickstart File with, system-config-kickstart, Making Manual Modifications to the Kickstart File</p>	12
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Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Red Hat Enterprise Linux6 Administration	Sander van Vugt	John Wiley and Sons		2013
2.	Red hat Linux Networking and System Administration	Terry Collings and Kurt Wall	Wiley	3 rd	
3.	Linux Administration: A Beginner's Guide	Wale Soyinka	TMH	Fifth Edition	

B. Sc. (Information Technology)		Semester – V	
Course Name: Enterprise Java		Course Code: USIT506 (Elective II)	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Understanding Java EE: What is an Enterprise Application? What is Java Enterprise Edition? Java EE Technologies, Java EE Evolution, Glassfish server</p> <p>JavaEE Architecture, Server and Containers: Types of System Architecture, Java EE Server, Java EE Containers.</p> <p>Introduction to Java Servlets: The Need for Dynamic Content, Java Servlet Technology, Why Servlets? What can Servlets do?</p> <p>Servlet API and Lifecycle: Java Servlet API, The Servlet Skeleton, The Servlet Life Cycle, A Simple Welcome Servlet</p> <p>Working with Servlets: Getting Started, Using Annotations Instead of Deployment Descriptor.</p> <p>Working with Databases: What is JDBC? JDBC Architecture, Accessing Database, The Servlet GUI and Database Example.</p>	12
II	<p>Request Dispatcher: RequestDispatcher Interface, Methods of RequestDispatcher, RequestDispatcher Application.</p> <p>COOKIES: Kinds of Cookies, Where Cookies Are Used? Creating Cookies Using Servlet, Dynamically Changing the Colors of A Page</p> <p>SESSION: What Are Sessions? Lifecycle of Http Session, Session Tracking With Servlet API, A Servlet Session Example</p> <p>Working with Files: Uploading Files, Creating an Upload File Application, Downloading Files, Creating a Download File Application.</p> <p>Working with Non-Blocking I/O: Creating a Non-Blocking Read Application, Creating The Web Application, Creating Java Class, Creating Servlets, Retrieving The File, Creating index.jsp</p>	12
III	<p>Introduction To Java ServerPages: Why use Java ServerPages? Disadvantages Of JSP, JSP vs Servlets, Life Cycle of a JSP Page, How does a JSP function? How does JSP execute? About Java ServerPages</p> <p>Getting Started With Java ServerPages: Comments, JSP Document, JSP Elements, JSP GUI Example.</p> <p>Action Elements: Including other Files, Forwarding JSP Page to Another Page, Passing Parameters for other Actions, Loading a Java Bean.</p> <p>Implicit Objects, Scope and EL Expressions: Implicit Objects, Character Quoting Conventions,</p>	12

	<p>UnifiedExpressionLanguage[UnifiedEl], ExpressionLanguage.</p> <p>Java Server Pages Standard Tag Libraries: WhatiswronginusingJSPScriptletTags? HowJSTLFixesJSPScriptlet'sShortcomings? DisadvantagesOfJSTL, TagLibraries.</p>	
IV	<p>Introduction To EnterpriseJavabeans: EnterpriseBeanArchitecture, BenefitsofEnterpriseBean, TypesofEnterpriseBean, AccessingEnterpriseBeans, EnterpriseBeanApplication, PackagingEnterpriseBeans</p> <p>Workingwith Session Beans: WhentouseSessionBeans? TypesofSessionBeans, RemoteandLocalInterfaces, AccessingInterfaces, LifecycleofEnterpriseBeans, PackagingEnterpriseBeans, Exampleof StatefulSessionBean, Example ofStatelessSessionBean, Example of SingletonSessionBeans.</p> <p>Working with Message DrivenBeans: LifecycleofaMessageDrivenBean, UsesofMessageDrivenBeans, TheMessage DrivenBeansExample.</p> <p>Interceptors: Request andInterceptor, Defining An Interceptor, AroundInvokeMethod, ApplyingInterceptor, Adding An Interceptor To An Enterprise Bean, Build and Run the Web Application.</p> <p>Java Naming and Directory Interface: What is Naming Service? What is Directory Service? What is Java Naming and Directory interface? Basic Lookup, JNDI Namespace in Java EE, Resources and JNDI, Datasource Resource Definition in Java EE.</p>	12
V	<p>Persistence, Object/Relational Mapping And JPA: WhatisPersistence? PersistenceinJava, CurrentPersistenceStandardsinJava, WhyanotherPersistenceStandards? Object/RelationalMapping,</p> <p>Introduction to JavaPersistence API: TheJavaPersistenceAPI, JPA,ORM,DatabaseandtheApplication, ArchitectureofJPA, HowJPAWorks? JPA Specifications.</p> <p>Writing JPA Application: ApplicationRequirementSpecifications, SoftwareRequirements, TheApplicationDevelopmentApproach, CreatingDatabaseandTablesInMysql, creatingaWebApplication, AddingtheRequiredLibraryFiles, creatingaJavabeanClass, CreatingPersistenceUnit[Persistence.Xml], CreatingJSPS, TheJPAApplicationStructure, RunningtheJPAApplication.</p> <p>Introduction to Hibernate: WhatisHibernate? WhyHibernate? Hibernate,DatabaseandTheApplication, ComponentsofHibernate, ArchitectureofHibernate, HowHibernateWorks?</p> <p>WritingHibernateApplication: ApplicationRequirementSpecifications, SoftwareRequirements, TheApplicationDevelopmentApproach, CreatingDatabaseandTablesInMysql, creatingaWebApplication, AddingtheRequiredLibraryFiles, creatingaJavabeanClass, CreatingHibernateConfigurationFile, AddingaMappingClass, CreatingJSPS, RunningTheHibernateApplication.</p>	12

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Java EE 7 For Beginners	Sharanam Shah, Vaishali Shah	SPD	First	2017
2.	Java EE 8 Cookbook: Build reliable applications with the most robust and mature technology for enterprise development	Elder Moraes	Packt	First	2018
3.	Advanced Java Programming	Uttam Kumar Roy	Oxford Press		2015

B. Sc. (Information Technology)		Semester – V	
Course Name: Next Generation Technologies		Course Code: USIT507 (Elective II)	
Periods per week (1 Period is 50 minutes),		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Big Data: Getting Started, Big Data, Facts About Big Data, Big Data Sources, Three Vs of Big Data, Volume, Variety, Velocity, Usage of Big Data, Visibility, Discover and Analyze Information, Segmentation and Customizations, Aiding Decision Making, Innovation, Big Data Challenges, Policies and Procedures, Access to Data, Technology and Techniques, Legacy Systems and Big Data, Structure of Big Data, Data Storage, Data Processing, Big Data Technologies</p> <p>NoSQL: SQL, NoSQL, Definition, A Brief History of NoSQL, ACID vs. BASE, CAP Theorem (Brewer’s Theorem), The BASE, NoSQL Advantages and Disadvantages, Advantages of NoSQL, Disadvantages of NoSQL, SQL vs. NoSQL Databases, Categories of NoSQL Databases</p> <p>Introducing MongoDB: History, MongoDB Design Philosophy, Speed, Scalability, and Agility, Non-Relational Approach, JSON-Based Document Store, Performance vs. Features, Running the Database Anywhere, SQL Comparison</p>	12
II	<p>The MongoDB Data Model:The Data Model,JSON and BSON,The Identifier (_id),Capped Collection,Polymorphic Schemas,Object-Oriented Programming,Schema Evolution</p> <p>Using MongoDB Shell:Basic Querying,Create and Insert,Explicitly Creating Collections,Inserting Documents Using Loop,Inserting by Explicitly Specifying _id,Update,Delete,Read,Using Indexes,Stepping Beyond the Basics,Using Conditional Operators,Regular Expressions,MapReduce,aggregate(),Designing an Application’s Data Model,Relational Data Modeling and Normalization,MongoDB Document Data Model Approach</p> <p>MongoDB Architecture:Core</p>	12

	Processes,mongod,mongo,mongos,MongoDB Tools,Standalone Deployment,Replication,Master/Slave Replication,Replica Set,Implementing Advanced Clustering with Replica Sets,Sharding,Sharding Components,Data Distribution Process,Data Balancing Process,Operations,Implementing Sharding,Controlling Collection Distribution (Tag-Based Sharding),Points to Remember When Importing Data in a ShardedEnvironment,Monitoring for Sharding,Monitoring the Config Servers,Production Cluster Architecture,Scenario 1,Scenario 2,Scenario 3,Scenario 4	
III	<p>MongoDB Storage Engine: Data Storage Engine, Data File (Relevant for MMAPv1), Namespace (.ns File), Data File (Relevant for WiredTiger), Reads and Writes, How Data Is Written Using Journaling, GridFS – The MongoDB File System, The Rationale of GridFS, GridFSunder the Hood, Using GridFS, Indexing, Types of Indexes, Behaviors and Limitations</p> <p>MongoDB Use Cases: Use Case 1 -Performance Monitoring, Schema Design, Operations, Sharding, Managing the Data, Use Case 2 – Social Networking, Schema Design, Operations, Sharding</p> <p>MongoDB Limitations: MongoDB Space Is Too Large (Applicable for MMAPv1), Memory Issues (Applicable for Storage Engine MMAPv1), 32-bit vs. 64-bit, BSON Documents, Namespaces Limits, Indexes Limit, Capped Collections Limit - Maximum Number of Documents in a Capped Collection, Sharding Limitations, Shard Early to Avoid Any Issues, Shard Key Can't Be Updated, Shard Collection Limit, Select the Correct Shard Key, Security Limitations, No Authentication by Default, Traffic to and from MongoDB Isn't Encrypted, Write and Read Limitations, Case-Sensitive Queries, Type-Sensitive Fields, No JOIN, Transactions, MongoDB Not Applicable Range</p> <p>MongoDB Best Practices: Deployment, Hardware Suggestions from the MongoDB Site, Few Points to be Noted, Coding, Application Response Time Optimization, Data Safety, Administration, Replication Lag, Sharding, Monitoring</p>	12
IV	<p>The End of Disk? SSD and In-Memory Databases: The End of Disk?, Solid State Disk, The Economics of Disk, SSD-Enabled Databases, In-Memory Databases, TimesTen, Redis, SAP HANA, VoltDB, Oracle 12c “in-Memory Database, Berkeley Analytics Data Stack and Spark, Spark Architecture</p> <p>jQuery: Introduction, Traversing the DOM, DOM Manipulation with jQuery, Events, Ajax with jQuery, jQuery Plug-ins, jQuery Image Slider</p>	12
V	JSON: Introduction, JSON Grammar, JSON Values, JSON Tokens, Syntax, JSON vs XML,Data Types,Objects,Arrays,Creating JSON,	12

	JSON Object, Parsing JSON, Persisting JSON, Data Interchange, JSON PHP,JSON HTML,JSONP	
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Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Practical MongoDB	Shakuntala Gupta Edward NavinSabharwal	Apress		
2.	Beginning jQuery	Jack Franklin Russ Ferguson	Apress	Second	
3.	Next Generation Databases	Guy Harrison	Apress		
4.	Beginning JSON	Ben Smith	Apress		

B. Sc. (Information Technology)		Semester – V	
Course Name: Project Dissertation		Course Code: USIT5P1	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	--

The details are given in Appendix – I

B. Sc. (Information Technology)		Semester – V	
Course Name: Internet of Things Practical		Course Code: USIT5P2	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	--

Practical No	Details
0	Starting Raspbian OS, Familiarising with Raspberry Pi Components and interface, Connecting to ethernet, Monitor, USB.
1	Displaying different LED patterns with Raspberry Pi.
2	Displaying Time over 4-Digit 7-Segment Display using Raspberry Pi
3	Raspberry Pi Based Oscilloscope
4	Controlling Raspberry Pi with WhatsApp.
5	Setting up Wireless Access Point using Raspberry Pi
6	Fingerprint Sensor interfacing with Raspberry Pi
7	Raspberry Pi GPS Module Interfacing
8	IoT based Web Controlled Home Automation using Raspberry Pi
9	Visitor Monitoring with Raspberry Pi and Pi Camera
10	Interfacing Raspberry Pi with RFID.
11	Building Google Assistant with Raspberry Pi.
12	Installing Windows 10 IoT Core on Raspberry Pi

Raspberry Pi Kits and components should be made available in the ratio of 1 kit : 3 students minimum.

B. Sc. (Information Technology)		Semester – V	
Course Name: Advanced Web Programming Practical		Course Code: USIT5P3	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	--

List of Practical	
1.	Working with basic C# and ASP .NET
a.	Create an application that obtains four int values from the user and displays the product.
b.	Create an application to demonstrate string operations.
c.	Create an application that receives the (Student Id, Student Name, Course Name, Date of Birth) information from a set of students. The application should also display the information of all the students once the data entered.
d.	Create an application to demonstrate following operations i. Generate Fibonacci series. ii. Test for prime numbers. iii. Test for vowels. iv. Use of foreach loop with arrays v. Reverse a number and find sum of digits of a number.
2.	Working with Object Oriented C# and ASP .NET
a.	Create simple application to perform following operations i. Finding factorial Value ii. Money Conversion iii. Quadratic Equation iv. Temperature Conversion
b.	Create simple application to demonstrate use of following concepts i. Function Overloading ii. Inheritance (all types) iii. Constructor overloading iv. Interfaces
c.	Create simple application to demonstrate use of following concepts i. Using Delegates and events ii. Exception handling
3.	Working with Web Forms and Controls
a.	Create a simple web page with various sever controls to demonstrate setting and use of their properties. (Example : AutoPostBack)
b.	Demonstrate the use of Calendar control to perform following operations. a) Display messages in a calendar control b) Display vacation in a calendar control c) Selected day in a calendar control using style d) Difference between two calendar dates
c.	Demonstrate the use of Treeview control perform following operations.

	a) Treeview control and datalist	b) Treeview operations
4.	Working with Form Controls	
a.	Create a Registration form to demonstrate use of various Validation controls.	
b.	Create Web Form to demonstrate use of Adrotator Control.	
c.	Create Web Form to demonstrate use User Controls.	
5.	Working with Navigation, Beautification and Master page.	
a.	Create Web Form to demonstrate use of Website Navigation controls and Site Map.	
b.	Create a web application to demonstrate use of Master Page with applying Styles and Themes for page beautification.	
c.	Create a web application to demonstrate various states of ASP.NET Pages.	
6.	Working with Database	
a.	Create a web application bind data in a multiline textbox by querying in another textbox.	
b.	Create a web application to display records by using database.	
c.	Demonstrate the use of Datalist link control.	
7.	Working with Database	
a.	Create a web application to display Databinding using dropdownlist control.	
b.	Create a web application for to display the phone no of an author using database.	
c.	Create a web application for inserting and deleting record from a database. (Using Execute-Non Query).	
8.	Working with data controls	
a.	Create a web application to demonstrate various uses and properties of SqlDataSource.	
b.	Create a web application to demonstrate data binding using DetailsView and FormView Control.	
c.	Create a web application to display Using Disconnected Data Access and Databinding using GridView.	
9.	Working with GridView control	
a.	Create a web application to demonstrate use of GridView control template and GridView hyperlink.	
b.	Create a web application to demonstrate use of GridView button column and GridView events.	
c.	Create a web application to demonstrate GridView paging and Creating own table format using GridView.	
10.	Working with AJAX and XML	
a.	Create a web application to demonstrate reading and writing operation with XML.	
b.	Create a web application to demonstrate Form Security and Windows Security with proper Authentication and Authorization properties.	
c.	Create a web application to demonstrate use of various Ajax controls.	
11.	Programs to create and use DLL	

B. Sc. (Information Technology)		Semester – V	
Course Name: Artificial Intelligence Practical		Course Code: USIT5P4 (Elective I)	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	--

Practical No	Details	
1	a	Write a program to implement depth first search algorithm.
	b	Write a program to implement breadth first search algorithm.
2	a	Write a program to simulate 4-Queen / N-Queen problem.
	b	Write a program to solve tower of Hanoi problem.
3	a	Write a program to implement alpha beta search.
	b	Write a program for Hill climbing problem.
4	a	Write a program to implement A* algorithm.
	b	Write a program to implement AO* algorithm.
5	a	Write a program to solve water jug problem.
	b	Design the simulation of tic – tac – toe game using min-max algorithm.
6	a	Write a program to solve Missionaries and Cannibals problem.
	b	Design an application to simulate number puzzle problem.
7	a	Write a program to shuffle Deck of cards.
	b	Solve traveling salesman problem using artificial intelligence technique.
8	a	Solve the block of World problem.
	b	Solve constraint satisfaction problem
9	a	Derive the expressions based on Associative law
	b	Derive the expressions based on Distributive law
10	a	Write a program to derive the predicate. (for e.g.: Sachin is batsman , batsman is cricketer) - >Sachin is Cricketer.
	b	Write a program which contains three predicates: male, female, parent. Make rules for following family relations: father, mother, grandfather, grandmother, brother, sister, uncle, aunt, nephew and niece, cousin. Question: i. Draw Family Tree. ii. Define: Clauses, Facts, Predicates and Rules with conjunction and disjunction

The practicals can be implemented in C / C++ / Java/ Python / R /Prolog / LISP or any other language.

B. Sc. (Information Technology)		Semester – V	
Course Name: Linux System Administration		Course Code: USIT5P5 (Elective I)	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	--

Practical No	Details
0	Installation of RHEL 6.X
1	Graphical User Interface and Command Line Interface and Processes
a	Exploring the Graphical Desktop
b	The Command Line Interface
c	Managing Processes
2	Storage Devices and Links, Backup and Repository
b	Working with Storage Devices and Links
a	Making a Backup
b	Creating a Repository
3	Working with RPMsm Storage and Networking
a	Using Query Options
b	Extracting Files From RPMs
c	Configuring and Managing Storage
d	Connecting to the Network
4	Working with Users, Groups, and Permissions
5	Firewall and Cryptographic services
a	Securing Server with iptables
b	Setting Up Cryptographic Services
6	Configuring Server for File Sharing
a	Configuring NFS Server and Client
b	Configuring Samba
c	Configuring FTP
7	DNS, DHCP and Mail Server
a	Configuring DNS

b	Configuring DHCP
c	Setting Up a Mail Server
8	Web Server
a	Configuring Apache on Red Hat Enterprise Linux
b	Writing a Script to Monitor Activity on the Apache Web Server
c	Using the select Command
9	Shell Scripts and High-Availability Clustering
a	Writing Shell Scripts
b	Configuring Booting with GRUB
c	Configuring High Availability Clustering
10	Setting Up an Installation Server
a	Configuring Network Server as an Installation Server
b	Setting Up a TFTP and DHCP Server for PXE Boot

B. Sc. (Information Technology)		Semester – V	
Course Name: Enterprise Java		Course Code: USIT5P6 (Elective II)	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	--

List of Practical	
1.	Implement the following Simple Servlet applications.
a.	Create a simple calculator application using servlet.
b.	Create a servlet for a login page. If the username and password are correct then it says message “Hello <username>” else a message “login failed”
c.	Create a registration servlet in Java using JDBC. Accept the details such as Username, Password, Email, and Country from the user using HTML Form and store the registration details in the database.
2.	Implement the following Servlet applications with Cookies and Sessions.
a.	Using Request Dispatcher Interface create a Servlet which will validate the password entered by the user, if the user has entered "Servlet" as password, then he will be forwarded to Welcome Servlet else the user will stay on the index.html page and an error message will be displayed.
b.	Create a servlet that uses Cookies to store the number of times a user has visited servlet.
c.	Create a servlet demonstrating the use of session creation and destruction. Also check whether the user has visited this page first time or has visited earlier also using sessions.
3.	Implement the Servlet IO and File applications.
a.	Create a Servlet application to upload and download a file.
b.	Develop Simple Servlet Question Answer Application using Database.
c.	Create simple Servlet application to demonstrate Non-Blocking Read Operation.
4.	Implement the following JSP applications.
a.	Develop a simple JSP application to display values obtained from the use of intrinsic objects of various types.
b.	Develop a simple JSP application to pass values from one page to another with validations. (Name-txt, age-txt, hobbies-checkbox, email-txt, gender-radio button).
c.	Create a registration and login JSP application to register and authenticate the user based on username and password using JDBC.

5.	Implement the following JSP JSTL and EL Applications.
a.	Create an html page with fields, eno, name, age, desg, salary. Now on submit this data to a JSP page which will update the employee table of database with matching eno.
b.	Create a JSP page to demonstrate the use of Expression language.
c.	Create a JSP application to demonstrate the use of JSTL.
6.	Implement the following EJB Applications.
a.	Create a Currency Converter application using EJB.
b.	Develop a Simple Room Reservation System Application Using EJB.
c.	Develop simple shopping cart application using EJB [Stateful Session Bean].
7.	Implement the following EJB applications with different types of Beans.
a.	Develop simple EJB application to demonstrate Servlet Hit count using Singleton Session Beans.
b.	Develop simple visitor Statistics application using Message Driven Bean [Stateless Session Bean].
c.	Develop simple Marks Entry Application to demonstrate accessing Database using EJB.
8.	Implement the following JPA applications.
a.	Develop a simple Inventory Application Using JPA.
b.	Develop a Guestbook Application Using JPA.
c.	Create simple JPA application to store and retrieve Book details.
9.	Implement the following JPA applications with ORM and Hibernate.
a.	Develop a JPA Application to demonstrate use of ORM associations.
b.	Develop a Hibernate application to store Feedback of Website Visitor in MySQL Database.
c.	Develop a Hibernate application to store and retrieve employee details in MySQL Database.
10.	Implement the following Hibernate applications.
a.	Develop an application to demonstrate Hibernate One- To -One Mapping Using Annotation.
b.	Develop Hibernate application to enter and retrieve course details with ORM Mapping.
c.	Develop a five page web application site using any two or three Java EE Technologies.

B. Sc. (Information Technology)		Semester – V	
Course Name: Next Generation Technologies Practical		Course Code: USIT5P7 (Elective II)	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	--

Practical No	Details
1	MongoDB Basics
a	Write a MongoDB query to create and drop database.
b	Write a MongoDB query to create, display and drop collection
c	Write a MongoDB query to insert, query, update and delete a document.
2	Simple Queries with MongoDB
3	Implementing Aggregation
a	Write a MongoDB query to use sum, avg, min and max expression.
b	Write a MongoDB query to use push and addToSet expression.
c	Write a MongoDB query to use first and last expression.
4	Replication, Backup and Restore
a	Write a MongoDB query to create Replica of existing database.
b	Write a MongoDB query to create a backup of existing database.
c	Write a MongoDB query to restore database from the backup.
5	Java and MongoDB
a	Connecting Java with MongoDB and inserting, retrieving, updating and deleting.
6	PHP and MongoDB
a	Connecting PHP with MongoDB and inserting, retrieving, updating and deleting.
7	Python and MongoDB

a	Connecting Python with MongoDB and inserting, retrieving, updating and deleting.
8	Programs on Basic jQuery
a	jQuery Basic, jQuery Events
b	jQuery Selectors, jQuery Hide and Show effects
c	jQuery fading effects, jQuery Sliding effects
9	jQuery Advanced
a	jQuery Animation effects, jQuery Chaining
b	jQuery Callback, jQuery Get and Set Contents
c	jQuery Insert Content, jQuery Remove Elements and Attribute
10	JSON
a	Creating JSON
b	Parsing JSON
c	Persisting JSON
11	Create a JSON file and import it to MongoDB
a	Export MongoDB to JSON.
b	Write a MongoDB query to delete JSON object from MongoDB

SEMESTER VI

B. Sc. (Information Technology)		Semester – VI	
Course Name: Software Quality Assurance		Course Code: USIT601	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Introduction to Quality: Historical Perspective of Quality, What is Quality? (Is it a fact or perception?), Definitions of Quality, Core Components of Quality, Quality View, Financial Aspect of Quality, Customers, Suppliers and Processes, Total Quality Management (TQM), Quality Principles of Total Quality Management, Quality Management Through Statistical Process Control, Quality Management Through Cultural Changes, Continual (Continuous) Improvement Cycle, Quality in Different Areas, Benchmarking and Metrics, Problem Solving Techniques, Problem Solving Software Tools.</p> <p>Software Quality: Introduction, Constraints of Software Product Quality Assessment, Customer is a King, Quality and Productivity Relationship, Requirements of a Product, Organisation Culture, Characteristics of Software, Software Development Process, Types of Products, Schemes of Criticality Definitions, Problematic Areas of Software Development Life Cycle, Software Quality Management, Why Software Has Defects? Processes Related to Software Quality, Quality Management System Structure, Pillars of Quality Management System, Important Aspects of Quality Management.</p>	12
II	<p>Fundamentals of testing: Introduction, Necessity of testing, What is testing? Fundamental test process, The psychology of testing, Historical Perspective of Testing, Definitions of Testing, Approaches to Testing, Testing During Development Life Cycle, Requirement Traceability Matrix, Essentials of Software Testing, Workbench, Important Features of Testing Process, Misconceptions About Testing,</p>	12

	Principles of Software Testing, Salient Features of Good Testing, Test Policy, Test Strategy or Test Approach, Test Planning, Testing Process and Number of Defects Found in Testing, Test Team Efficiency, Mutation Testing, Challenges in Testing, Test Team Approach, Process Problems Faced by Testing, Cost Aspect of Testing, Establishing Testing Policy, Methods, Structured Approach to Testing, Categories of Defect, Defect, Error, or Mistake in Software, Developing Test Strategy, Developing Testing Methodologies (Test Plan), Testing Process, Attitude Towards Testing (Common People Issues), Test Methodologies/Approaches, People Challenges in Software Testing, Raising Management Awareness for Testing, Skills Required by Tester, Testing throughout the software life cycle, Software development models, Test levels, Test types, the targets of testing, Maintenance testing	
III	Unit Testing: Boundary Value Testing: Normal Boundary Value Testing, Robust Boundary Value Testing, Worst-Case Boundary Value Testing, Special Value Testing, Examples, Random Testing, Guidelines for Boundary Value Testing, Equivalence Class Testing: Equivalence Classes, Traditional Equivalence Class Testing, Improved Equivalence Class Testing, Edge Testing, Guidelines and Observations. Decision Table-Based Testing: Decision Tables, Decision Table Techniques, Cause-and-Effect Graphing, Guidelines and Observations, Path Testing: Program Graphs, DD-Paths, Test Coverage Metrics, Basis Path Testing, Guidelines and Observations, Data Flow Testing: Define/Use Testing, Slice-Based Testing, Program Slicing Tools.	12
IV	Software Verification and Validation: Introduction, Verification, Verification Workbench, Methods of Verification, Types of reviews on the basis of Stage Phase, Entities involved in verification, Reviews in testing lifecycle, Coverage in Verification, Concerns of Verification, Validation, Validation Workbench, Levels of Validation, Coverage in Validation, Acceptance Testing, Management of Verification and Validation, Software development verification and validation activities. V-test Model: Introduction, V-model for software, testing during Proposal stage, Testing during requirement stage, Testing during test planning phase, Testing during design phase, Testing during coding, VV Model, Critical Roles and Responsibilities.	12
V	Levels of Testing: Introduction, Proposal Testing, Requirement Testing, Design Testing, Code Review, Unit Testing, Module Testing, Integration Testing, Big-Bang Testing, Sandwich Testing, Critical Path First, Sub System Testing, System Testing, Testing Stages. Special Tests: Introduction, GUI testing, Compatibility Testing, Security Testing, Performance Testing, Volume Testing, Stress Testing, Recovery Testing, Installation Testing, Requirement Testing, Regression Testing, Error Handling Testing, Manual Support Testing,	12

	Intersystem Testing, Control Testing, Smoke Testing, Adhoc Testing, Parallel Testing, Execution Testing, Operations Testing, Compliance Testing, Usability Testing, Decision Table Testing, Documentation Testing, Training testing, Rapid Testing, Control flow graph, Generating tests on the basis of Combinatorial Designs, State Graph, Risk Associated with New Technologies, Process maturity level of Technology, Testing Adequacy of Control in New technology usage, Object Oriented Application Testing, Testing of Internal Controls, COTS Testing, Client Server Testing, Web Application Testing, Mobile Application Testing, eBusiness eCommerce Testing, Agile Development Testing, Data Warehousing Testing.	
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Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Software Testing and Continuous Quality Improvement	William E. Lewis	CRC Press	Third	2016
2	Software Testing: Principles, Techniques and Tools	M. G. Limaye	TMH		2017
3.	Foundations of Software Testing	Dorothy Graham, Erik van Veenendaal, Isabel Evans, Rex Black	Cengage Learning	3 rd	
4.	Software Testing: A Craftsman's Approach	Paul C. Jorgenson	CRC Press	4 th	2017

B. Sc. (Information Technology)		Semester – VI	
Course Name: Security in Computing		Course Code: USIT602	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Information Security Overview: The Importance of Information Protection, The Evolution of Information Security, Justifying Security Investment, Security Methodology, How to Build a Security Program, The Impossible Job, The Weakest Link, Strategy and Tactics, Business Processes vs. Technical Controls.</p> <p>Risk Analysis: Threat Definition, Types of Attacks, Risk Analysis.</p> <p>Secure Design Principles: The CIA Triad and Other Models, Defense Models, Zones of Trust, Best Practices for Network Defense.</p>	12
II	<p>Authentication and Authorization: Authentication, Authorization</p> <p>Encryption: A Brief History of Encryption, Symmetric-Key Cryptography, Public Key Cryptography, Public Key Infrastructure.</p> <p>Storage Security: Storage Security Evolution, Modern Storage Security, Risk Remediation, Best Practices.</p> <p>Database Security: General Database Security Concepts, Understanding Database Security Layers, Understanding Database-Level Security, Using Application Security, Database Backup and Recovery, Keeping Your Servers Up to Date, Database Auditing and Monitoring.</p>	12
III	<p>Secure Network Design: Introduction to Secure Network Design, Performance, Availability, Security.</p> <p>Network Device Security: Switch and Router Basics, Network Hardening.</p> <p>Firewalls: Overview, The Evolution of Firewalls, Core Firewall</p>	12

	Functions, Additional Firewall Capabilities, Firewall Design. Wireless Network Security: Radio Frequency Security Basics, Data-Link Layer Wireless Security Features, Flaws, and Threats, Wireless Vulnerabilities and Mitigations, Wireless Network Hardening Practices and Recommendations, Wireless Intrusion Detection and Prevention, Wireless Network Positioning and Secure Gateways.	
IV	Intrusion Detection and Prevention Systems: IDS Concepts, IDS Types and Detection Models, IDS Features, IDS Deployment Considerations, Security Information and Event Management (SIEM). Voice over IP (VoIP) and PBX Security: Background, VoIP Components, VoIP Vulnerabilities and Countermeasures, PBX, TEM: Telecom Expense Management. Operating System Security Models: Operating System Models, Classic Security Models, Reference Monitor, Trustworthy Computing, International Standards for Operating System Security.	12
V	Virtual Machines and Cloud Computing: Virtual Machines, Cloud Computing. Secure Application Design: Secure Development Lifecycle, Application Security Practices, Web Application Security, Client Application Security, Remote Administration Security. Physical Security: Classification of Assets, Physical Vulnerability Assessment, Choosing Site Location for Security, Securing Assets: Locks and Entry Controls, Physical Intrusion Detection.	12

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	TheCompleteReference: Information Security	Mark Rhodes-Ousley	McGraw-Hill	2 nd	2013
2.	Essential Cybersecurity Science	Josiah Dykstra	O'Reilly	Fifth	2017
3.	Principles of Computer Security: CompTIA Security+ and Beyond	Wm.Arthur Conklin, Greg White	McGraw Hill	Second	2010

B. Sc. (Information Technology)		Semester – VI	
Course Name: Business Intelligence		Course Code: USIT603	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>Business intelligence: Effective and timely decisions, Data, information and knowledge, The role of mathematical models, Business intelligence architectures, Ethics and business intelligence</p> <p>Decision support systems: Definition of system, Representation of the decision-making process, Evolution of information systems, Definition of decision support system, Development of a decision support system</p>	12
II	<p>Mathematical models for decision making: Structure of mathematical models, Development of a model, Classes of models</p> <p>Data mining: Definition of data mining, Representation of input data , Data mining process, Analysis methodologies</p> <p>Data preparation: Data validation, Data transformation, Data reduction</p>	12
III	<p>Classification: Classification problems, Evaluation of classification models, Bayesian methods, Logistic regression, Neural networks, Support vector machines</p> <p>Clustering: Clustering methods, Partition methods, Hierarchical methods, Evaluation of clustering models</p>	12
IV	<p>Business intelligence applications:</p> <p>Marketing models: Relational marketing, Sales force management,</p> <p>Logistic and production models: Supply chain optimization, Optimization models for logistics planning, Revenue management systems.</p>	12

	Data envelopment analysis: Efficiency measures, Efficient frontier, The CCR model, Identification of good operating practices	
V	Knowledge Management: Introduction to Knowledge Management, Organizational Learning and Transformation, Knowledge Management Activities, Approaches to Knowledge Management, Information Technology (IT) In Knowledge Management, Knowledge Management Systems Implementation, Roles of People in Knowledge Management Artificial Intelligence and Expert Systems: Concepts and Definitions of Artificial Intelligence, Artificial Intelligence Versus Natural Intelligence, Basic Concepts of Expert Systems, Applications of Expert Systems, Structure of Expert Systems, Knowledge Engineering, Development of Expert Systems	12

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Business Intelligence: Data Mining and Optimization for Decision Making	Carlo Vercellis	Wiley	First	2009
2.	Decision support and Business Intelligence Systems	Efraim Turban, Ramesh Sharda, DursunDelen	Pearson	Ninth	2011
3.	Fundamental of Business Intelligence	Grossmann W, Rinderle-Ma	Springer	First	2015

B. Sc. (Information Technology)		Semester – VI	
Course Name: Principles of Geographic Information Systems		Course Code: USIT604 (Elective I)	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>A Gentle Introduction to GIS The nature of GIS: Some fundamental observations, Defining GIS, GISystems, GIScience and GIApplications, Spatial data and Geoinformation. The real world and representations of it: Models and modelling, Maps, Databases, Spatial databases and spatial analysis</p> <p>Geographic Information and Spatial Database Models and Representations of the real world Geographic Phenomena: Defining geographic phenomena, types of geographic phenomena, Geographic fields, Geographic objects, Boundaries Computer Representations of Geographic Information: Regular tessellations, irregular tessellations, Vector representations, Topology and Spatial relationships, Scale and Resolution, Representation of Geographic fields, Representation of Geographic objects Organizing and Managing Spatial Data The Temporal Dimension</p>	12
II	<p>Data Management and Processing Systems Hardware and Software Trends Geographic Information Systems: GIS Software, GIS Architecture</p>	12

	<p>and functionality, Spatial Data Infrastructure (SDI)</p> <p>Stages of Spatial Data handling: Spatial data handling and preparation, Spatial Data Storage and maintenance, Spatial Query and Analysis, Spatial Data Presentation.</p> <p>Database management Systems: Reasons for using a DBMS, Alternatives for data management, The relational data model, Querying the relational database.</p> <p>GIS and Spatial Databases: Linking GIS and DBMS, Spatial database functionality.</p>	
III	<p>Spatial Referencing and Positioning</p> <p>Spatial Referencing: Reference surfaces for mapping, Coordinate Systems, Map Projections, Coordinate Transformations</p> <p>Satellite-based Positioning: Absolute positioning, Errors in absolute positioning, Relative positioning, Network positioning, code versus phase measurements, Positioning technology</p> <p>Data Entry and Preparation</p> <p>Spatial Data Input: Direct spatial data capture, Indirect spatial data capture, Obtaining spatial data elsewhere</p> <p>Data Quality: Accuracy and Positioning, Positional accuracy, Attribute accuracy, temporal accuracy, Lineage, Completeness, Logical consistency</p> <p>Data Preparation: Data checks and repairs, Combining data from multiple sources</p> <p>Point Data Transformation: Interpolating discrete data, Interpolating continuous data</p>	12
IV	<p>Spatial Data Analysis</p> <p>Classification of analytical GIS Capabilities</p> <p>Retrieval, classification and measurement: Measurement, Spatial selection queries, Classification</p> <p>Overlay functions: Vector overlay operators, Raster overlay operators</p> <p>Neighbourhood functions: Proximity computations, Computation of diffusion, Flow computation, Raster based surface analysis</p> <p>Analysis: Network analysis, interpolation, terrain modeling</p> <p>GIS and Application models: GPS, Open GIS Standards, GIS Applications and Advances</p> <p>Error Propagation in spatial data processing: How Errors propagate, Quantifying error propagation</p>	12
V	<p>Data Visualization</p> <p>GIS and Maps, The Visualization Process</p> <p>Visualization Strategies: Present or explore?</p> <p>The cartographic toolbox: What kind of data do I have? How can I map my data?</p> <p>How to map? How to map qualitative data, How to map quantitative data, How to map the terrain elevation, How to map time series</p>	12

	Map Cosmetics, Map Dissemination	
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Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Principles of Geographic Information Systems- An Introductory Text Book	Editors: Otto Huisman and Rolf A.	The International Institute of Geoinformation Science and Earth Observation	Fourth	2009
2.	Principles of Geographic Information Systems	P.A Burrough and R.A.McDonnell	Oxford University Press	Third	1999
3.	Fundamentals of Spatial Information Systems,	R.Laurini and D. Thompson,	Academic Press		1994
4.	Fundamentals of Geographic Information Systems	Michael N.Demers	Wiley Publications	Fourth	2009
5.	Introduction to Geographic Information Systems	Chang Kang-tsung (Karl),	McGrawHill	Any above 3 rd Edition	2013 7 th Edition
6.	GIS Fundamentals: A First Text on Geographic Information Systems	Paul Bolsatd	XanEdu Publishing Inc	5 th Edition	

B. Sc. (Information Technology)		Semester – VI	
Course Name: Enterprise Networking		Course Code: USIT605 (Elective II)	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>General Network Design: Network Design Methodology, Architectures for the Enterprise, Borderless Networks Architecture, Collaboration and Video Architecture, Data Center and Virtualization Architecture, Design Lifecycle: Plan, Build, Manage Plan Phase Build Phase Manage Phase Prepare, Plan, Design, Implement, Operate, and Optimize Phases Prepare Phase Plan Phase Design Phase Implement Phase Operate Phase Optimize Phase Summary of PPDIIO Phases Project Deliverables Design Methodology Identifying Customer Design Requirements Characterizing the Existing Network Steps in Gathering Information Network Audit Tools Network Checklist Designing the Network Topology and Solutions Top-Down Approach Pilot and Prototype Tests Design Document</p> <p>Network Design Models: Hierarchical Network Models Benefits of the Hierarchical Model, Hierarchical Network Design, Core Layer, Distribution Layer, Access Layer, Hierarchical Model Examples, Hub-and-Spoke, Design Collapsed Core, Design Enterprise Architecture Model, Enterprise Campus Module, Enterprise Edge Area, E-Commerce Module, Internet Connectivity Module, VPN/Remote Access, Enterprise WAN, Service Provider Edge Module, Remote Modules, Enterprise Branch Module, Enterprise Data Center Module, Enterprise Teleworker Module, High Availability Network Services, Workstation-to-Router Redundancy and LAN, High Availability Protocols, ARP Explicit Configuration, RDP, RIP, HSRP, VRRP, GLBP, Server Redundancy, Route</p>	12

	Redundancy, Load Balancing, Increasing Availability, Link Media Redundancy	
II	<p>Enterprise LAN Design: LAN Media, Ethernet Design Rules, 100Mbps Fast Ethernet Design Rules, Gigabit Ethernet Design Rules, 1000BASE-LX Long-Wavelength Gigabit Ethernet, 1000BASE-SX Short-Wavelength Gigabit Ethernet, 1000BASE-CX Gigabit Ethernet over Coaxial Cable, 1000BASE-T Gigabit Ethernet over UTP 86, 10 Gigabit Ethernet Design Rules, 10GE Media Types, EtherChannel, Comparison of Campus Media LAN Hardware, Repeaters, Hubs, Bridges, Switches, Routers, Layer 3 Switches, Campus LAN Design and Best Practices Best Practices for Hierarchical Layers, Access Layer Best Practices, Distribution Layer Best Practices, Core Layer Best Practices, STP Design Considerations, STP Toolkit, PortFast, UplinkFast, BackboneFast, Loop Guard, Root Guard, BPDU Guard, BPDU Filter, VLAN and Trunk Considerations, Unidirectional Link Detection (UDLD) Protocol, Large-Building LANs, Enterprise Campus LANs, Edge Distribution, Medium-Size LANs, Small and Remote Site LANs, Server Farm Module, Server Connectivity Options, Enterprise Data Center Infrastructure, Campus LAN QoS Considerations, Multicast Traffic Considerations, CGMP, IGMP Snooping.</p> <p>Data Center Design: Enterprise DC Architecture, Data Center Foundation Components, Data Center Topology Components, Data Center Network Programmability, SDN, Controllers, APIs, ACI, Challenges in the DC, Data Center Facility Aspects, Data Center Space, Data Center Power, Data Center Cooling, Data Center Heat, Data Center Cabling, Enterprise DC Infrastructure, Data Center Storage, Data Center Reference Architecture, Defining the DC Access Layer, Defining the DC Aggregation Layer, Defining the DC Core Layer, Security in the DC, Fabric Extenders, Virtualization Overview, Challenges, Defining Virtualization and Benefits, Virtualization Risks, Types of Virtualization, Virtualization Technologies, VSS, VRF, vPC, Device Contexts, Server Virtualization, Server Scaling, Virtual Switching, Network Virtualization Design Considerations, Access Control, Path Isolation, Services Edge, Data Center Interconnect, DCI Use Cases, DCI Transport Options, DCI L2 Considerations, Load Balancing in the DC, Application Load Balancing, Network Load Balancing.</p>	12
III	<p>Wireless LAN Design: Wireless LAN Technologies, WLAN Standards, ISM and UNII Frequencies, Summary of WLAN Standards, Service Set Identifier, WLAN Layer 2 Access Method, WLAN Security, Unauthorized Access, WLAN Security Design Approach, IEEE 802.1X-2001 Port-Based Authentication, Dynamic WEP Keys and LEAP, Controlling WLAN Access to Servers, WLAN Authentication, Authentication Options, WLAN Controller Components, WLC Interface Types, AP Controller Equipment</p>	12

Scaling, Roaming and Mobility Groups, Intracontroller Roaming, Layer 2 Intercontroller Roaming, Layer 3 Intercontroller Roaming, Mobility Groups, WLAN Design, Controller Redundancy Design: Deterministic vs. Dynamic, N+1 WLC Redundancy, N+N WLC Redundancy, N+N+1 WLC Redundancy, Radio Management and Radio Groups, RF Groups, RF Site Survey, Using EoIP Tunnels for Guest Services, Wireless Mesh for Outdoor Wireless, Mesh Design Recommendations, Campus Design Considerations, Power over Ethernet (PoE), Wireless and Quality of Service (QoS), Branch Design Considerations, Local MAC, REAP, Hybrid REAP, Branch Office Controller Options.

WAN Technologies and the Enterprise Edge: WAN and Enterprise Edge Overview, Definition of WAN, WAN Edge Module, Enterprise Edge Modules, WAN Transport Technologies, ISDN, ISDN BRI Service, ISDN PRI Service, Digital Subscriber Line, Cable, Wireless, Frame Relay, Time-Division Multiplexing, Metro Ethernet, SONET/SDH, Multiprotocol Label Switching (MPLS), Dark Fiber, Dense Wavelength-Division Multiplexing, Ordering WAN Technology and Contracts, WAN and Edge Design Methodologies, Response Time, Throughput, Reliability, Bandwidth Considerations, WAN Link Categories, Optimizing Bandwidth Using QoS, Queuing, Traffic Shaping and Policing, Classification, Congestion Management, Priority Queuing, Custom Queuing, Weighted Fair Queuing, Class-Based Weighted Fair Queuing, Low-Latency Queuing, Traffic Shaping and Policing, Link Efficiency, Window Size, DMZ Connectivity, Segmenting DMZs, DMZ Services, Internet Connectivity, Centralized Internet (Branch) vs. Direct Internet (Branch), High Availability for the Internet Edge, VPN Network Design.

WAN Design

Traditional WAN Technologies Hub-and-Spoke Topology
Full-Mesh Topology Partial-Mesh Topology Point-to-Point Topology
Remote Site Connectivity
Enterprise VPN vs. Service Provider VPN Enterprise Managed VPN:
IPsec IPsec Direct Encapsulation Generic Routing Encapsulation
IPsec DMVPN IPsec Virtual Tunnel Interface Design GETVPN
Service Provider-Managed Offerings ,Metro Ethernet Service
Provider VPNs: L2 vs. L3 ,Virtual Private Wire Services VPWS L2
VPN Considerations ,Virtual Private LAN Services VPLS L2 VPN
Considerations ,MPLS, MPLS Layer 3 Design Overview MPLS L3
VPN Considerations ,VPN Benefits WAN Backup Design WAN
Backup over the Internet Enterprise WAN Architecture Cisco
Enterprise MAN/WAN Enterprise WAN/MAN Architecture
Comparison ,Enterprise WAN Components Comparing Hardware and
Software Enterprise Branch Architecture Branch Design Branch

	<p>Connectivity Redundancy for Branches Single WAN Carrier vs. Dual WAN Carriers Single MPLS Carrier Site ,Dual MPLS Carriers Hybrid WAN: L3 VPN with IPsec VPN ,Internet for Branches Flat Layer 2 vs. Collapsed Core ,Enterprise Branch Profiles Small Branch Design Medium Branch Design Large Branch Design Enterprise Teleworker Design ,ISRs for Teleworkers</p>	
<p>IV</p>	<p>Internet Protocol Version 4 Design,IPv4 Header ToS IPv4 Fragmentation IPv4 Addressing ,IPv4 Address Classes Class A Addresses Class B Addresses ,Class C Addresses Class D Addresses Class E Addresses ,IPv4 Address Types IPv4 Private Addresses NAT ,IPv4 Address Subnets Mask Nomenclature IP Address Subnet Design Example Determining the Network Portion of an IP Address Variable-Length Subnet Masks, Loopback Addresses IP Telephony Networks ,IPv4 Addressing Design Goal of IPv4 Address Design , Plan for Future Use of IPv4 Addresses , Performing Route Summarization , Plan for a Hierarchical IP Address Network , Private and Public IP Address and NAT Guidelines , Steps for Creating an IPv4 Address Plan</p> <p>Case Study: IP Address Subnet Allocation , Address Assignment and Name Resolution , Recommended Practices of IP Address Assignment , BOOTP DHCP DNS , Internet Protocol Version 6 Design, IPv6 Header IPv6 Address Representation IPv4-Compatible IPv6 Addresses IPv6 Prefix Representation IPv6 Address Scope Types and Address Allocations IPv6 Address Allocations IPv6 Unicast Address Global Unicast Addresses Link-Local Addresses , Unique Local IPv6 Address Global Aggregatable IPv6 Address , IPv4-Compatible IPv6 Address IPv6 Anycast Addresses , IPv6 Multicast Addresses IPv6 Mechanisms ICMPv6 , IPv6 Neighbor Discovery Protocol IPv6 Name Resolution , Path MTU Discovery IPv6 Address-Assignment Strategies , Manual Configuration SLAAC of Link-Local Address , SLAAC of Globally Unique IPv6 Address DHCPv6 , DHCPv6 Lite IPv6 Security IPv6 Routing Protocols RIPng OSPFv3 , BGP4 Multiprotocol Extensions (MP-BGP) for IPv6 , IPv6 Addressing Design , Planning for Addressing with IPv6 , Route Summarization with IPv6 IPv6 Private Addressing</p> <p>IPv6 for the Enterprise IPv6 Address Allocation , Partly Linked IPv4 Address into IPv6, Whole IPv4 Address Linked into IPv6</p> <p>IPv6 Addresses Allocated Per Location and/or Type , IPv4-to-IPv6 Transition Mechanisms and Deployment Models , Dual-Stack Mechanism IPv6 over IPv4 Tunnels , Protocol Translation Mechanisms IPv6 Deployment Models , Dual-Stack Model Hybrid Model Service Block Model ,IPv6 Deployment Model Comparison IPv6 Comparison with IPv4 ,OSPF, BGP, Route Manipulation, and IP Multicast,OSPFv2 OSPFv2 Metric OSPFv2 Adjacencies and Hello Timers , OSPFv2 Areas OSPF Area Design Considerations OSPF Router Types OSPF DRs LSA Types Autonomous System External Path Types OSPF Stub Area Types Stub Areas Totally Stubby Areas ,</p>	<p>12</p>

	<p>NSSAs Virtual Links OSPFv2 Router Authentication , OSPFv2 Summary OSPFv3 OSPFv3 Changes from OSPFv2, OSPFv3 Areas and Router Types OSPFv3 LSAs OSPFv3 Summary</p> <p>BGP BGP Neighbors eBGPiBGP Route Reflectors Confederations BGP Administrative Distance, BGP Attributes, Weight, and the BGP Decision Process</p> <p>BGP Path Attributes Next-Hop Attribute Local Preference Attribute Origin Attribute Autonomous System Path Attribute</p> <p>MED Attribute Community Attribute Atomic Aggregate and Aggregator Attributes Weight BGP Decision Process, BGP Summary, Route Manipulation PBR Route Summarization</p> <p>Route Redistribution Default Metric OSPF Redistribution Route Filtering Transit Traffic Routing Protocols on the Hierarchical Network Infrastructure IP Multicast Review, Multicast Addresses Layer 3 to Layer 2 Mapping IGMP, IGMPv1 IGMPv2 IGMPv3 CGMP IGMP Snooping, Sparse Versus Dense Multicast Multicast Source and Shared Trees PIM PIM-SM PIM DR Auto-RP PIMv2 Bootstrap Router, DVMRP IPv6 Multicast Addresses</p>	
<p>V</p>	<p>Managing Security</p> <p>Network Security Overview Security Legislation Security Threats Reconnaissance and Port Scanning Vulnerability Scanners</p> <p>Unauthorized Access Security Risks Targets Loss of Availability Integrity Violations and Confidentiality Breaches , Security Policy and Process Security Policy Defined , Basic Approach of a Security Policy Purpose of Security Policies, Security Policy Components Risk Assessment , Risk Index Continuous Security Integrating Security Mechanisms into Network Design Trust and Identity Management , Trust Domains of Trust Identity Passwords Tokens Certificates , Network Access Control Secure Services Encryption Fundamentals Encryption Keys VPN Protocols , Transmission Confidentiality Data Integrity Threat Defense , Physical Security Infrastructure Protection Security Management Solutions Security Solution Network Security Platforms , Trust and Identity Technologies Firewall Fundamentals , Types of Firewalls Next-Gen Firewalls NAT Placement , Firewall Guidelines Firewall ACLs , Identity and Access Control Deployments Detecting and Mitigating Threats IPS/IDS Fundamentals IPS/IDS Guidelines , Threat Detection and Mitigation Technologies , Threat-Detection and Threat-Mitigation Solutions , FirePOWER IPS Security Management Applications , Security Platform Solutions Security Management Network</p> <p>Integrating Security into Network Devices IOS Security, ISR G2 Security Hardware Options Securing the Enterprise, Implementing Security in the Campus Implementing Security in the Data Center Implementing Security in the Enterprise Edge</p> <p>Network Management Protocols, Simple Network Management Protocol SNMP Components, MIB SNMP Message Versions</p>	<p>12</p>

	SNMPv1 SNMPv2 SNMPv3, Other Network Management Technologies RMON, RMON2 NetFlow Compared to RMON and SNMP, CDP LLDP Syslog	
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Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	CCDA200-310 Official Cert Guide	ANTHONY BRUNO, CCIE No. 2738 STEVE JORDAN, CCIE No. 11293	Cisco Press		
2.	Network Warrior	Gary A Donabue	O Reilly	2 nd	2011

B. Sc. (Information Technology)		Semester – VI	
Course Name: IT Services Management		Course Code: USIT606 (Elective I)	
Periods per week (1 Period is 50 minutes),		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	<p>IT Service Management: Introduction, What is service management? What are services? Business Process, Principles of Service management: Specialisation and Coordination, The agency principle, Encapsulation, Principles of systems, The service Life Cycle, Functions and processes across the life cycle.</p> <p>Service Strategy Principles: Value creation, Service Assets, Service Provider Service Structures, Service Strategy Principles.</p> <p>Service Strategy: Define the market, Develop the offerings, Develop Strategic Assets, Prepare for execution.</p> <p>Challenges, Critical Success factors and risks: Complexity, Coordination and Control, Preserving value, Effectiveness in measurement, Risks.</p>	12
II	<p>Service Design: Fundamentals, Service Design Principles: Goals, Balanced Design, Identifying Service requirements, identifying and documenting business requirements and drivers, Design activities, Design aspects, Subsequent design activities, Design constraints, Service oriented architecture, Business Service Management, Service Design Models</p> <p>Service Design Processes: Service Catalogue Management, Service Level Management, Capacity Management, Availability Management, IT Service Continuity Management, Information Security</p>	12

	Management, Supplier Management Challenges, Critical Success factors and risks: Challenges, Risks	
III	Service Transition: Fundamentals, Service Transition Principles: Principles Supporting Service Transition, Policies for Service Transition Service Transition Processes: Transition planning and support, Change Management, Service Asses Configuration Management, Service and Deployment Management, Service Validation and Testing, Evaluation, Knowledge Management. Challenges, Critical Success factors and risks: Challenges, Critical Success factors, Risks, Service Transition under difficult Conditions.	12
IV	Service Operation: Fundamentals, Service Operation Principles: Functions, groups, teams, departments and divisions, a chieving balance in service operations, Providing service, Operation staff involvement in service design and service transition, Operational Health, Communication, Documentation Service Operation Processes: Event Management, Incident Management, Request fulfilment, Problem Management, Access Management, Operational activities of processes covered in other lifecycle phases. Challenges, Critical Success factors and risks: Challenges, Critical Success factors, Risks	12
V	Continual Service Improvement(CSI) Principles: CSI Approach, CSI and organizational change, Ownership, CSI register, External and Internal drivers, Service level management, Knowledge management, The Deming cycle, Service Measurement, IT governance, Frameworks, models, standards and quality Systems, CSI inputs and outputs. CSI Process: The seven-step improvement process. CSI Methods nad Techniques: Methods and techniques, Assessments, benchmarking, Service Measurement, Metrics, Return on Investment, Service reporting, CSI and other service management processes, Organising for CSI: Organisational development, Functions, roles, Customer Engagement, Responsibility model - RACI, Competence and training. Technology considerations: Tools to support CSI activities. Implementing CSI: Critical Considerations for implementing CSI,The start, Governance, CSI and organisational change, Communication Strategy and Plan	12

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	ITIL v3 Foundation Complete Certification Kit				2009
2.	ITIL v3 Service Strategy		OGC/TSO		

3.	ITIL v3 Service Transition		OGC/TSO		
4.	ITIL v3 Service Operation		OGC/TSO		
5.	ITIL Continual Service Improvement		TSO	2011	2011

B. Sc. (Information Technology)		Semester – VI	
Course Name: Cyber Laws		Course Code: USIT607 (Elective I)	
Periods per week (1 Period is 50 minutes)		5	
Credits		2	
		Hours	Marks
Evaluation System	Theory Examination	2½	75
	Internal	--	25

Unit	Details	Lectures
I	Power of Arrest Without Warrant Under the IT Act, 2000: A Critique, Crimes of this Millennium, Section 80 of the IT Act, 2000 – A Weapon or a Farce? Forgetting the Line Between Cognizable and Non-Cognizable Offences, Necessity of Arrest without Warrant from Any Place, Public or Otherwise, Check and Balances Against Arbitrary Arrests, Arrest for “About to Commit” an Offence Under the IT Act: A Tribute to Draco, Arrest, But NO Punishment! Cyber Crime and Criminal Justice: Penalties, Adjudication and Appeals Under the IT Act, 2000: Concept of “Cyber Crime “ and the IT Act , 2000, Hacking, Teenage Web Vandals, Cyber Fraud and Cyber Cheating, Virus on the Internet, Defamation, Harassment and E-mail Abuse, Cyber Pornography, Other IT Act Offences, Monetary Penalties, Adjudication and Appeals Under IT Act , 2000, Network Service Providers, Jurisdiction and Cyber Crime, Nature of Cyber Criminality, Strategies to Tackle Cyber Crime and Trends, Criminal Justice in India and Implications on Cyber Crime.	12
II	Contracts in the Infotech World: Contracts in the Infotech World, Click-Wrap and Shrink-Wrap Contract: Status under the Indian	12

	<p>Contract Act, 1872, Contract Formation Under the Indian Contract Act, 1872, Contract Formation on the Internet, Terms and Conditions of Contracts.</p> <p>Jurisdiction in the Cyber World: Questioning the Jurisdiction and Validity of the Present Law of Jurisdiction, Civil Law of Jurisdiction in India, Cause of Action, Jurisdiction and the Information Technology Act, 2000, Foreign Judgements in India, Place of Cause of Action in Contractual and IPR Disputes, Exclusion Clauses in Contracts, Abuse of Exclusion Clauses, Objection of Lack of Jurisdiction, Misuse of the Law of Jurisdiction, Legal Principles on Jurisdiction in the United State of America, Jurisdiction Disputes w.r.t. the Internet in the United State of America.</p>	
III	<p>Battling Cyber Squatters and Copyright Protection in the Cyber World: Concept of Domain Name and Reply to Cyber Squatters, Meta-Tagging, Legislative and Other Innovative Moves Against Cyber Squatting, The Battle Between Freedom and Control on the Internet, Works in Which Copyright Subsists and meaning of Copyright, Copyright Ownership and Assignment, License of Copyright, Copyright Terms and Respect for Foreign Works, Copyright Infringement, Remedies and Offences, Copyright Protection of Content on the Internet; Copyright Notice, Disclaimer and Acknowledgement, Downloading for Viewing Content on the Internet, Hyper-Linking and Framing, Liability of ISPs for Copyright Violation in the Cyber World: Legal Developments in the US, Napster and its Cousins: A Revolution on the Internet but a Crisis for Copyright Owners, Computer Software Piracy.</p>	12
IV	<p>E-Commerce Taxation: Real Problems in the Virtual World: A Tug of War on the Concept of ‘Permanent Establishment’, Finding the PE in Cross Border E-Commerce, The United Nations Model Tax Treaty, The Law of Double Taxation Avoidance Agreements and Taxable Jurisdiction Over Non-Residents, Under the Income Tax Act, 1961, Tax Agents of Non-Residents under the Income Tax Act, 1961 and the Relevance to E-Commerce, Source versus Residence and Classification between Business Income and Royalty, The Impact of the Internet on Customer Duties, Taxation Policies in India: At a Glance.</p> <p>Digital Signature, Certifying Authorities and E-Governance: Digital Signatures, Digital Signature Certificate, Certifying Authorities and Liability in the Event of Digital Signature Compromise, E-Governance in India: A Warning to Babudom!</p>	12
V	<p>The Indian Evidence Act of 1872 v. Information Technology Act, 2000: Status of Electronic Records as Evidence, Proof and Management of Electronic Records; Relevancy, Admissibility and Probative Value of E-Evidence, Proving Digital Signatures, Proof of Electronic Agreements, Proving Electronic Messages, Other Amendments in the Indian Evidence Act by the IT Act, Amendments to the Bankers Books Evidence Act, 1891 and Reserve Bank of India</p>	12

Act, 1934. Protection of Cyber Consumers in India: Are Cyber Consumers Covered Under the Consumer Protection Act? Goods and Services, Consumer Complaint, Defect in Goods and Deficiency in Services, Restrictive and Unfair Trade Practices, Instances of Unfair Trade Practices, Reliefs Under CPA, Beware Consumers, Consumer Foras, Jurisdiction and Implications on cyber Consumers in India, Applicability of CPA to Manufacturers, Distributors, Retailers and Service Providers Based in Foreign Lands Whose Goods are Sold or Services Provided to a Consumer in India. Amendments in Indian IT Act 2000	
--	--

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1.	Cyber Law Simplified	VivekSood	TMH Education		2001
2.	Cybersecurity Law	Jeff Kosseff	Wiley		2017

B. Sc. (Information Technology)		Semester – VI	
Course Name: Project Implementation		Course Code: USIT6P1	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	150
	Internal	--	-

The details are given in Appendix – I

B. Sc. (Information Technology)		Semester – VI	
Course Name: Security in Computing Practical		Course Code: USIT6P2	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	-

Practical No	Details
1	Configure Routers
a	OSPF MD5 authentication.
b	NTP.
c	to log messages to the syslog server.
d	to support SSH connections.
2	Configure AAA Authentication
a	Configure a local user account on Router and configure authenticate on the console and vty lines using local AAA
b	Verify local AAA authentication from the Router console and the PC-A client
3	Configuring Extended ACLs
a	Configure, Apply and Verify an Extended Numbered ACL
4	Configure IP ACLs to Mitigate Attacks and IPV6 ACLs

a	Verify connectivity among devices before firewall configuration.
b	Use ACLs to ensure remote access to the routers is available only from management station PC-C.
c	Configure ACLs on to mitigate attacks.
d	Configuring IPv6 ACLs
5	Configuring a Zone-Based Policy Firewall
6	Configure IOS Intrusion Prevention System (IPS) Using the CLI
a	Enable IOS IPS.
b	Modify an IPS signature.
7	Layer 2 Security
a	Assign the Central switch as the root bridge.
b	Secure spanning-tree parameters to prevent STP manipulation attacks.
c	Enable port security to prevent CAM table overflow attacks.
8	Layer 2 VLAN Security
9	Configure and Verify a Site-to-Site IPsec VPN Using CLI
10	Configuring ASA Basic Settings and Firewall Using CLI
a	Configure basic ASA settings and interface security levels using CLI
b	Configure routing, address translation, and inspection policy using CLI
c	Configure DHCP, AAA, and SSH
d	Configure a DMZ, Static NAT, and ACLs

B. Sc. (Information Technology)		Semester – VI	
Course Name: Business Intelligence Practical		Course Code: USIT6P3	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	-

Practical No	Details
1	Import the legacy data from different sources such as (Excel , SqlServer, Oracle etc.) and load in the target system. (You can download sample database such as Adventureworks, Northwind, foodmart etc.)
2	Perform the Extraction Transformation and Loading (ETL) process to construct the database in the Sqlserver.
3	a. Create the Data staging area for the selected database. b. Create the cube with suitable dimension and fact tables based on ROLAP, MOLAP and HOLAP model.
4	a.Create the ETL map and setup the schedule for execution. b. Execute the MDX queries to extract the data from the datawarehouse.
5	a. Import the datawarehouse data in Microsoft Excel and create the Pivot table and Pivot Chart.

	b. Import the cube in Microsoft Excel and create the Pivot table and Pivot Chart to perform data analysis.
6	Apply the what – if Analysis for data visualization. Design and generate necessary reports based on the datawarehouse data.
7	Perform the data classification using classification algorithm.
8	Perform the data clustering using clustering algorithm.
9	Perform the Linear regression on the given datawarehouse data.
10	Perform the logistic regression on the given datawarehouse data.

The BI tools such as Tableau / Power BI / BIRT / R / Excel or any other can be used.

B. Sc. (Information Technology)		Semester – VI	
Course Name: Principles of Geographical Information System Practical		Course Code: USIT6P4 (Elective II)	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	-

Practical No	Details
0	Familiarizing Quantum GIS: Installation of QGIS, datasets for both Vector and Raster data, Maps.
1	Creating and Managing Vector Data: Adding vector layers, setting properties, formatting, calculating line lengths and statistics
2	Exploring and Managing Raster data: Adding raster layers, raster styling and analysis, raster mosaicking and clipping
3	Making a Map, Working with Attributes, Importing Spreadsheets or CSV files Using Plugins, Searching and Downloading OpenStreetMap Data

4	Working with attributes, terrain Data
5	Working with Projections and WMS Data
6	Georeferencing Topo Sheets and Scanned Maps Georeferencing Aerial Imagery Digitizing Map Data
7	Managing Data Tables and Spatial data Sets: Table joins, spatial joins, points in polygon analysis, performing spatial queries
8	Advanced GIS Operations 1: Nearest Neighbor Analysis, Sampling Raster Data using Points or Polygons, Interpolating Point Data
9	Advanced GIS Operations 2: Batch Processing using Processing Framework Automating Complex Workflows using Processing Modeler Automating Map Creation with Print Composer Atlas
10	Validating Map data

B. Sc. (Information Technology)		Semester – VI	
Course Name: Advanced Networking Practical		Course Code: USIT6P5 (Elective II)	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	-

Practical No	Details
1	Configuring OSPF – I
a	Single-Area OSPF Link Costs and Interface Priorities
b	Multi-Area OSPF with Stub Areas and Authentication
2	Configuring OSPF – II
a	OSPF Virtual Links and Area Summarization
b	OSPF over Frame Relay
3	Redistribution and Administrative Distances
a	Redistribution Between RIP and OSPF
b	Manipulating Administrative Distances

4	BGP
a	Configuring BGP with Default Routing
b	Using the AS_PATH Attribute
c	BGP Route Reflectors and Route Filters
5	IPv6
a	Configuring OSPF for IPv6
b	Configuring 6to4 Tunnels
6	VLANs and EtherChannel
a	Static VLANs, VLAN Trunking, and VTP Domains and Modes
b	Configuring EtherChannel
7	Spanning Tree Protocol
a	Spanning Tree Protocol (STP) Default Behavior
b	Modifying Default Spanning Tree Behavior
8	VLAN and Spanning Tree
a	Per-VLAN Spanning Tree Behavior
b	Multiple Spanning Tree
9	Internal VLAN Routing
a	Inter-VLAN Routing with an External Router
b	Inter-VLAN Routing with an Internal Route Processor
10	Configure NAT Services

B. Sc. (Information Technology)		Semester – VI	
Course Name: Advanced Mobile Programming Practical		Course Code: USIT6P6	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
Evaluation System	Practical Examination	2½	50
	Internal	--	--

Practical No	Details
1	Introduction to Android, Introduction to Android Studio IDE, Application Fundamentals: Creating a Project, Android Components, Activities, Services, Content Providers, Broadcast Receivers, Interface overview, Creating Android Virtual device, USB debugging mode, Android Application Overview. Simple “Hello World” program.
2	Programming Resources Android Resources: (Color, Theme, String, Drawable, Dimension, Image),
3	Programming Activities and fragments Activity Life Cycle, Activity methods, Multiple Activities, Life Cycle of fragments and multiple fragments.
4	Programs related to different Layouts

	Coordinate, Linear, Relative, Table, Absolute, Frame, List View, Grid View.
5	Programming UI elements AppBar, Fragments, UI Components
6	Programming menus, dialog, dialog fragments
7	Programs on Intents, Events, Listeners and Adapters The Android Intent Class, Using Events and Event Listeners
8	Programs on Services, notification and broadcast receivers
9	Database Programming with SQLite
10	Programming threads, handles and asynchronized programs
11	Programming Media API and Telephone API
12	Programming Security and permissions
13	Programming Network Communications and Services (JSON)

APPENDIX – 1

Project Dissertation Semester V and Project Implementation Semester VI

Chapter 1 to 4 should be submitted in Semester V in spiral binding. These chapter have also to be included in Semester VI report. Semester VI report has to be hard bound with golden embossing. Students will be evaluated based on the dissertation in semester V and dissertation and viva voce in Semester VI.

I. OBJECTIVES

- Describe the Systems Development Life Cycle (SDLC).
- Evaluate systems requirements.
- Complete a problem definition.
- Evaluate a problem definition.
- Determine how to collect information to determine requirements.

- Perform and evaluate feasibility studies like cost-benefit analysis, technical feasibility, time feasibility and Operational feasibility for the project.
- Work on data collection methods for fact finding.
- Construct and evaluate data flow diagrams.
- Construct and evaluate data dictionaries.
- Evaluate methods of process description to include structured English, decision tables and decision trees.
- Evaluate alternative tools for the analysis process.
- Create and evaluate such alternative graphical tools as systems flow charts and state transition diagrams.
- Decide the S/W requirement specifications and H/W requirement specifications.
- Plan the systems design phase of the SDLC.
- Distinguish between logical and physical design requirements.
- Design and evaluate system outputs.
- Design and evaluate systems inputs.
- Design and evaluate validity checks for input data.
- Design and evaluate user interfaces for input.
- Design and evaluate file structures to include the use of indexes.
- Estimate storage requirements.
- Explain the various file update processes based on the standard file organizations.
- Decide various data structures.
- Construct and evaluate entity-relationship (ER) diagrams for RDBMS related projects.
- Perform normalization for the unnormalized tables for RDBMS related projects
- Decide the various processing systems to include distributed, client/server, online and others.
- Perform project cost estimates using various techniques.
- Schedule projects using both GANTT and PERT charts.
- Perform coding for the project.
- Documentation requirements and prepare and evaluate systems documentation.
- Perform various systems testing techniques/strategies to include the phases of testing.
- Systems implementation and its key problems.

- Generate various reports.
- Be able to prepare and evaluate a final report.
- Brief the maintenance procedures and the role of configuration management in operations.
- To decide the future scope and further enhancement of the system.
- Plan for several appendices to be placed in support with the project report documentation.
- Decide the various processing systems to include distributed, client/server, online and others.
- Perform project cost estimates using various techniques.
- Schedule projects using both GANTT and PERT charts.
- Perform coding for the project.
- Documentation requirements and prepare and evaluate systems documentation.
- Perform various systems testing techniques/strategies to include the phases of testing.
- Systems implementation and its key problems.
- Generate various reports.
- Be able to prepare and evaluate a final report.
- Brief the maintenance procedures and the role of configuration management in operations.
- To decide the future scope and further enhancement of the system.
- Plan for several appendices to be placed in support with the project report documentation.
- Work effectively as an individual or as a team member to produce correct, efficient, well-organized and documented programs in a reasonable time.
- Recognize problems that are amenable to computer solutions, and knowledge of the tool necessary for solving such problems.
- Develop of the ability to assess the implications of work performed.
- Get good exposure and command in one or more application areas and on the software
- Develop quality software using the software engineering principles
- Develop of the ability to communicate effectively.

II. Type of the Project

The majority of the students are expected to work on a real-life project preferably in some industry/ Research and Development Laboratories/Educational Institution/Software Company. Students are encouraged to work in the areas listed below . However, it is *not mandatory* for a

student to work on a real-life project. The student can formulate a project problem with the help of her/his Guide and submit the project proposal of the same. **Approval of the project proposal is mandatory.** If approved, the student can commence working on it, and complete it. Use the latest versions of the software packages for the development of the project.

III. SOFTWARE AND BROAD AREAS OF APPLICATION

FRONT END / GUI Tools	.Net Technologies,Java
DBMS/BACK END	Oracle, SQL Plus, MY SQL, SQL Server,
LANGUAGES	C, C++, Java, VC++, C#, R,Python
SCRIPTING LANGUAGES	PHP,JSP, SHELL Scripts (Unix), Tcl/TK,
.NET Platform	F#,C#. Net, Visual C#. Net, ASP.Net
MIDDLE WARE (COMPONENT) TECHNOLOGIES	COM/DCOM, Active-X, EJB
UNIX INTERNALS	Device Drivers, RPC, Threads, Socket programming
NETWORK/WIRELESS TECHNOLOGIES	-
REALTIME OPERATING SYSTEM/ EMBEDDED SKILLS	LINUX, Raspberry Pi, Arduino, 8051
APPLICATION AREAS	Financial / Insurance / Manufacturing / Multimedia / Computer Graphics / Instructional Design/ Database Management System/ Internet / Intranet / Computer Networking-Communication Software development/ E-Commerce/ ERP/ MRP/ TCP-IP programming / Routing protocols programming/ Socket programming.

IV.Introduction

The project report should be documented with scientific approach to the solution of the problem that the students have sought to address. The project report should be prepared in order to solve the problem in a methodical and professional manner, making due references to appropriate techniques, technologies and professional standards. The student should start the documentation process from the first phase of software development so that one can easily identify the issues to be focused upon in the ultimate project report. The student should also include the details from

the project diary, in which they will record the progress of their project throughout the course. The project report should contain enough details to enable examiners to evaluate the work. The important points should be highlighted in the body of the report, with details often referred to appendices.

1.1 PROJECT REPORT:

Title Page

Original Copy of the Approved Proforma of the Project Proposal

Certificate of Authenticated work

Role and Responsibility Form

Abstract

Acknowledgement

Table of Contents

Table of Figures

CHAPTER 1: INTRODUCTION

1.1 Background

1.2 Objectives

1.3 Purpose, Scope, and Applicability

1.3.1 Purpose

1.3.2 Scope

1.3.3 Applicability

1.4 Achievements

1.5 Organisation of Report

CHAPTER 2: SURVEY OF TECHNOLOGIES

CHAPTER 3: REQUIREMENTS AND ANALYSIS

3.1 Problem Definition

3.2 Requirements Specification

3.3 Planning and Scheduling

3.4 Software and Hardware Requirements

3.5 Preliminary Product Description

3.6 Conceptual Models

CHAPTER 4: SYSTEM DESIGN

4.1 Basic Modules

4.2 Data Design

4.2.1 Schema Design

4.2.2 Data Integrity and Constraints

4.3 Procedural Design

4.3.1 Logic Diagrams

4.3.2 Data Structures

4.3.3 Algorithms Design

4.4 User interface design

4.5 Security Issues

4.6 Test Cases Design

The documentation should use tools like star UML, Visuo for windows, Rational Rose for design as part of Software Project Management Practical Course. The documentation should be spiral bound for semester V and the entire documentation should be hard bound during semester VI.

CHAPTER 5: IMPLEMENTATION AND TESTING

5.1 Implementation Approaches

5.2 Coding Details and Code Efficiency

5.2.1 Code Efficiency

5.3 Testing Approach

5.3.1 Unit Testing

5.3.2 Integrated Testing

5.3.3 Beta Testing

5.4 Modifications and Improvements

5.5 Test Cases

CHAPTER 6: RESULTS AND DISCUSSION

6.1 Test Reports

6.2 User Documentation

CHAPTER 7: CONCLUSIONS

7.1 Conclusion

7.1.1 Significance of the System

7.2 Limitations of the System

7.3 Future Scope of the Project

REFERENCES

GLOSSARY

APPENDIX A

APPENDIX B

V. EXPLANATION OF CONTENTS

Title Page

Sample format of Title page is given in Appendix 1 of this block. Students should follow the given format.

Original Copy of the Approved Proforma of the Project Proposal

Sample Proforma of Project Proposal is given in Appendix 2 of this block. Students should follow the given format.

Certificate of Authenticated work

Sample format of Certificate of Authenticated work is given in Appendix 3 of this block. Students should follow the given format.

Role and Responsibility Form

Sample format for Role and Responsibility Form is given in Appendix 4 of this block. Students should follow the given format.

Abstract

This should be one/two short paragraphs (100-150 words total), summarising the project work. It is important that this is not just a re-statement of the original project outline. A suggested flow is background, project aims and main achievements. From the abstract, a reader should be able to ascertain if the project is of interest to them and, it should present results of which they may wish to know more details.

Acknowledgements

This should express student's gratitude to those who have helped in the preparation of project.

Table of Contents: The table of contents gives the readers a view of the detailed structure of the report. The students would need to provide section and subsection headings with associated pages. The formatting details of these sections and subsections are given below.

Table of Figures: List of all Figures, Tables, Graphs, Charts etc. along with their page numbers in a table of figures.

Chapter 1: Introduction

The introduction has several parts as given below:

Background: A description of the background and context of the project and its relation to work already done in the area. Summarise existing work in the area concerned with the project work.

Objectives: Concise statement of the aims and objectives of the project. Define exactly what is going to be done in the project; the objectives should be about 30 /40 words.

Purpose, Scope and Applicability: The description of Purpose, Scope, and Applicability are given below:

- **Purpose:** Description of the topic of the project that answers questions on why this project is being done. How the project could improve the system its significance and theoretical framework.
- **Scope:** A brief overview of the methodology, assumptions and limitations. The students should answer the question: What are the main issues being covered in the project? What are the main functions of the project?
- **Applicability:** The student should explain the direct and indirect applications of their work. Briefly discuss how this project will serve the computer world and people.

Achievements: Explain what knowledge the student achieved after the completion of the work. What contributions has the project made to the chosen area? Goals achieved - describes the

degree to which the findings support the original objectives laid out by the project. The goals may be partially or fully achieved, or exceeded.

Organisation of Report: Summarising the remaining chapters of the project report, in effect, giving the reader an overview of what is to come in the project report.

Chapter 2: Survey of Technologies

In this chapter Survey of Technologies should demonstrate the students awareness and understanding of Available Technologies related to the topic of the project. The student should give the detail of all the related technologies that are necessary to complete the project. The should describe the technologies available in the chosen area and present a comparative study of all those Available Technologies. Explain why the student selected the one technology for the completion of the objectives of the project.

Chapter 3: Requirements and Analysis

Problem Definition: Define the problem on which the students are working in the project.

Provide details of the overall problem and then divide the problem in to sub-problems. Define each sub-problem clearly.

Requirements Specification: In this phase the student should define the requirements of the system, independent of how these requirements will be accomplished. The Requirements Specification describes the things in the system and the actions that can be done on these things. Identify the operation and problems of the existing system.

Planning and Scheduling: Planning and scheduling is a complicated part of software development. Planning, for our purposes, can be thought of as determining all the small tasks that must be carried out in order to accomplish the goal. Planning also takes into account, rules, known as constraints, which, control when certain tasks can or cannot happen. Scheduling can be thought of as determining whether adequate resources are available to carry out the plan. The student should show the Gantt chart and Program Evaluation Review Technique (PERT).

Software and Hardware Requirements: Define the details of all the software and hardware needed for the development and implementation of the project.

- Hardware Requirement: In this section, the equipment, graphics card, numeric co-processor, mouse, disk capacity, RAM capacity etc. necessary to run the software must be noted.
- Software Requirements: In this section, the operating system, the compiler, testing tools, linker, and the libraries etc. necessary to compile, link and install the software must be listed.

Preliminary Product Description: Identify the requirements and objectives of the new system. Define the functions and operation of the application/system the students are developing as project.

Conceptual Models: The student should understand the problem domain and produce a model of the system, which describes operations that can be performed on the system, and the allowable sequences of those operations. Conceptual Models could consist of complete Data Flow Diagrams, ER diagrams, Object-oriented diagrams, System Flowcharts etc.

Chapter 4: System Design

Describes desired features and operations in detail, including screen layouts, business rules, process diagrams, pseudocode and other documentation.

Basic Modules: The students should follow the divide and conquer theory, so divide the overall problem into more manageable parts and develop each part or module separately. When all modules are ready, the student should integrate all the modules into one system. In this phase, the student should briefly describe all the modules and the functionality of these modules.

Data Design: Data design will consist of how data is organised, managed and manipulated.

- Schema Design: Define the structure and explanation of schemas used in the project.
- Data Integrity and Constraints: Define and explain all the validity checks and constraints provided to maintain data integrity.

Procedural Design: Procedural design is a systematic way for developing algorithms or procedurals.

- Logic Diagrams: Define the systematical flow of procedure that improves its comprehension and helps the programmer during implementation. e.g., Control Flow Chart, Process Diagrams etc.
- Data Structures: Create and define the data structure used in procedures.
- Algorithms Design: With proper explanations of input data, output data, logic of processes, design and explain the working of algorithms.

User Interface Design: Define user, task, environment analysis and how to map those requirements in order to develop a “User Interface”. Describe the external and internal components and the architecture of user interface. Show some rough pictorial views of the user interface and its components.

Security Issues: Discuss Real-time considerations and Security issues related to the project and explain how the student intends avoiding those security problems. What are the security policy plans and architecture?

Test Cases Design: Define test cases, which will provide easy detection of errors and mistakes with in a minimum period of time and with the least effort. Explain the different conditions in which the students wish to ensure the correct working of the project.

Chapter 5: Implementation and Testing

Implementation Approaches: Define the plan of implementation, and the standards the students have used in the implementation.

Coding Details and Code Efficiency: Students not need include full source code, instead, include only the important codes (algorithms, applets code, forms code etc). The program code should contain comments needed for explaining the work a piece of code does. Comments may be needed to explain why it does it, or, why it does a particular way.

The student can explain the function of the code with a shot of the output screen of that program code.

- Code Efficiency: The student should explain how the code is efficient and how the students have handled code optimisation.

Testing Approach: Testing should be according to the scheme presented in the system design chapter and should follow some suitable model – e.g., category partition, state machine-based. Both functional testing and user-acceptance testing are appropriate. Explain the approach of testing.

- Unit Testing: Unit testing deals with testing a unit or module as a whole. This would test the interaction of many functions but, do confine the test within one module.
- Integrated Testing: Brings all the modules together into a special testing environment, then checks for errors, bugs and interoperability. It deals with tests for the entire application. Application limits and features are tested here.

Modifications and Improvements: Once the students finish the testing they are bound to be faced with bugs, errors and they will need to modify your source code to improve the system. Define what modification are implemented in the system and how it improved the system.

Chapter 6: Results and Discussion

Test Reports: Explain the test results and reports based on the test cases, which should show that the project is capable of facing any problematic situation and that it works fine in different conditions. Take the different sample inputs and show the outputs.

User Documentation: Define the working of the software; explain its different functions, components with screen shots. The user document should provide all the details of the product in such a way that any user reading the manual, is able to understand the working and functionality of the document.

Chapter 7: Conclusions

Conclusion: The conclusions can be summarised in a fairly short chapter (2 or 3 pages). This chapter brings together many of the points that would have made in the other chapters.

Limitations of the System: Explain the limitations encountered during the testing of the project that the students were not able to modify. List the criticisms accepted during the demonstrations of the project.

Future Scope of the Project describes two things: firstly, new areas of investigation prompted by developments in this project, and secondly, parts of the current work that was not completed due to time constraints and/or problems encountered.

REFERENCES

It is very important that the students acknowledge the work of others that they have used or adapted in their own work, or that provides the essential background or context to the project. The use of references is the standard way to do this. Please follow the given standard for the references for books, journals, and online material. The citation is mandatory in both the reports.

E.g:

Linhares, A., & Brum, P. (2007). Understanding our understanding of strategic scenarios: What role do chunks play? *Cognitive Science*, 31(6), 989-1007.
<https://doi.org/doi:10.1080/03640210701703725>

Lipson, Charles (2011). Cite right : A quick guide to citation styles; MLA, APA, Chicago, the sciences, professions, and more (2nd ed.). Chicago [u.a.]: University of Chicago Press. p. 187. ISBN 9780226484648.

Elaine Ritchie, J Knite. (2001). *Artificial Intelligence, Chapter 2 ,p.p 23 - 44.* Tata McGrawHill.

GLOSSARY

If you the students any acronyms, abbreviations, symbols, or uncommon terms in the project report then their meaning should be explained where they first occur. If they go on to use any of them extensively then it is helpful to list them in this section and define the meaning.

APPENDICES

These may be provided to include further details of results, mathematical derivations, certain illustrative parts of the program code (e.g., class interfaces), user documentation etc.

In particular, if there are technical details of the work done that might be useful to others who wish to build on this work, but that are not sufficiently important to the project as a whole to

justify being discussed in the main body of the project, then they should be included as appendices.

VI. SUMMARY

Project development usually involves an engineering approach to the design and development of a software system that fulfils a practical need. Projects also often form an important focus for discussion at interviews with future employers as they provide a detailed example of what the students are capable of achieving. In this course the students can choose your project topic from the lists given in Unit 4: Category-wise Problem Definition.

VII. FURTHER READINGS

1. Modern Systems Analysis and Design; Jeffrey A. Hoffer, Joey F. George, Joseph,S. Valacich; Pearson Education; Third Edition; 2002.
2. ISO/IEC 12207: Software Life Cycle Process
(<http://www.software.org/quagmire/descriptions/iso-iec12207.asp>).
3. IEEE 1063: Software User Documentation (<http://ieeexplore.ieee.org>).
4. ISO/IEC: 18019: Guidelines for the Design and Preparation of User Documentation for Application Software.
5. <http://www.sce.carleton.ca/squall>.
6. <http://en.tldp.org/HOWTO/Software-Release-Practice-HOWTO/documentation.html>.
7. <http://www.sei.cmu.edu/cmm/>

PROFORMA FOR THE APPROVAL PROJECT PROPOSAL

(Note:All entries of the proforma of approval should be filled up with appropriate and complete information. Incomplete proforma of approval in any respect will be summarily rejected.)

PNR No.:

Rollno: _____

1. Name of the Student

2. Title of the Project

3. Name of the Guide

4. Teaching experience of the Guide _____

5. Is this your first submission? Yes No

Signature of the Student

Signature of the Guide

Date:

Date:

Signature of the Coordinator

Date:

(All the text in the report should be in times new roman)

TITLE OF THE PROJECT
(NOT EXCEEDING 2 LINES, 24 BOLD,
ALL CAPS)

A Project Report (12 Bold)
Submitted in partial fulfillment of the
Requirements for the award of the Degree of (size-12)

**BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY)(14 BOLD,
CAPS)**

By(12 Bold)

Name of The Student (size-15, title case)

Seat Number (size-15)

Under the esteemed guidance of (13 bold)

Mr./Mrs. Name of The Guide (15 bold, title case)

Designation (14 Bold, title case)

COLLEGE LOGO

DEPARTMENT OF INFORMATION TECHNOLOGY(12 BOLD, CAPS)

COLLEGE NAME (14 BOLD, CAPS)

(Affiliated to University of Mumbai) (12, Title case, bold, italic)

CITY, PIN CODE(12 bold, CAPS)

MAHARASHTRA (12 bold, CAPS)

YEAR (12 bold)

COLLEGE NAME (14 BOLD, CAPS)
(Affiliated to University of Mumbai) (13, bold, italic)
CITY-MAHARASHTRA-PINCODE(13 bold, CAPS)

DEPARTMENT OF INFORMATION TECHNOLOGY (14 BOLD, CAPS)

College Logo

CERTIFICATE (14 BOLD, CAPS, underlined, centered)

This is to certify that the project entitled, "**Title of The Project** ", is bonafied work of **NAME OF THE STUDENT** bearing Seat.No: (**NUMBER**) submitted in partial fulfillment of the requirements for the award of degree of BACHELOR OF SCIENCE in INFORMATION TECHNOLOGY from University of Mumbai. (12, times new roman, justified)

Internal Guide (12 bold)

Coordinator

(Don't write names of lecturers or HOD)

External Examiner

Date:

College Seal

COMPANY CERTIFICATE (if applicable)

(Project Abstract page format)

Abstract (20bold, caps, centered)

Content (12, justified)

**Note: Entire document should be with 1.5
line spacing and all paragraphs should start with 1 tab space.**

ACKNOWLEDGEMENT

(20, BOLD, ALL CAPS, CENTERED)

The acknowledgement should be in times new roman, 12 font with 1.5 line spacing, justified.

(Declaration page format)

DECLARATION (20 bold, centered, allcaps)

Content (12, justified)

I here by declare that the project entitled, “**Title of the Project**” done at **place where the project is done**, has not been in any case duplicated to submit to any other university for the award of any degree. To the best of my knowledge other than me, no one has submitted to any other university.

The project is done in partial fulfillment of the requirements for the award of degree of **BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY)** to be submitted as final semester project as part of our curriculum.

Name and Signature of the Student

TABLE OF CONTENTS (20bold, caps, centered)

Should be generated automatically using word processing software.

Chapter 1: Introduction	01(no bold)
1.1 Background	02(no bold)
1.2 Objectives
1.3 Purpose and Scope
1.2.1 Purpose
1.2.2 Scope	

.....
.....

Chapter 2: System Analysis	
2.1 Existing System	
2.2 Proposed System	
2.3 Requirement Analysis	
2.4 Hardware Requirements	
2.5 Software Requirements	
2.6 Justification of selection of Technology	

Chapter 3: System Design	
3.1 Module Division	
3.2 Data Dictionary	
3.3 ER Diagrams	
3.4 DFD/UML Diagrams	

Chapter 4: Implementation and Testing

4.1 Code (Place Core segments)	
4.2 Testing Approach	
4.2.1 Unit Testing (Test cases and Test Results)	
4.2.2 Integration System (Test cases and Test Results)	

Chapter 5: Results and Discussions (Output Screens)	
Chapter 6: Conclusion and Future Work	
Chapter 7: References	

List of Tables (20 bold, centered, Title Case)

Should be generated automatically using word processing software.

List of Figures (20 bold, centered, Title Case)

Should be generated automatically using word processing software.

(Project Introduction page format)

Chapter 1

Introduction (20 Bold, centered)

Content or text (12, justified)

Note: Introduction has to cover brief description of the project with minimum 4 pages.

Chapter 2

System Analysis (20 bold, Centered)

Subheadings are as shown below with following format (16 bold, CAPS)

2.1 Existing System (16 Bold)

2.1.1 ----- (14 bold, title case)

2.1.1.1 ----- (12 bold, title case)

2.2 Proposed System

2.3 Requirement Analysis

2.4 Hardware Requirements

2.5 Software Requirements

2.6 Justification of Platform – (how h/w & s/w satisfying the project)

Table 2.1: Caption

Chapter 3

System Design (20 bold, centered)

Subheadings are as shown below with following format (16 bold, CAPS)
Specify figures as Fig 11.1 – caption

3.1 Module Division

3.2 Data Dictionary

3.3 E-R Diagrams

3.4 Data Flow Diagrams / UML

Note: write brief description at the bottom of all diagrams

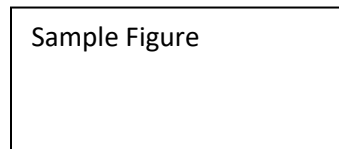


Fig. 3.1: Caption

Chapter 4

Implementation and Testing (20 bold, centered)

4.1 Code (Place Core segments)

Content includes description about coding phase in your project (Font-12)

(* don't include complete code-----just description)

4.2 Testing Approach

Subheadings are as shown below with following format (16 bold, CAPS)

4.2.1 Unit Testing

4.2.2 Integration Testing

Note:

- Explain about above testing methods
- Explain how the above techniques are applied in your project
Provide Test plans, test cases, etc relevant to your project

Chapter 5

Results and Discussions(20 bold, centered)

Note: Place Screen Shots and write the functionality of each screen at the bottom

Chapter 6

Conclusion and Future Work (20 bold, centered)

The conclusions can be summarized in a fairly short chapter around 300 words. Also include limitations of your system and future scope (12, justified)

Chapter 7

References (20 bold, centered)

Content (12, LEFT)

[1] Title of the book, Author

[2] Full URL of online references

[3] -----

*** NOTE ABOUT PROJECT VIVA VOCE:**

Student may be asked to write code for problem during VIVA to demonstrate his coding capabilities and he/she may be asked to write any segment of coding used in the in the project. The project can be done in group of at most four students. However, the length and depth of the project should be justified for the projects done in group. A big project can be modularised and different modules can be assigned as separate project to different students.

Marks Distribution:

Semester V: 50 Marks

Documentation: 50 marks

Semester VI: 150 Marks

Documentation: 50 Marks:

Implementation and Viva Voce: 100 Marks

The plagiarism should be maintained as per the UGC guidelines.