AC 29-1-2020



R.A Podar College Of Commerce and Economics, (Autonomous) Matunga, Mumbai.

Syllabus

and

Question Paper Pattern

Of

Courses of B.Com (Actuarial Studies)

First Year (Semester I and II)

Under Choice Based Credit System

To be implemented from Academic Year 2019-2020

Faculty of Commerce

www.rapodar.ac.in

Bachelor of Commerce (B.Com) Programme (Actuarial Studies)

Under Choice Based Credit, Grading and Semester System Course Structure

F. Y. B. Com in Actuarial Studies

(To be implemented from Academic Year- 2019-20)

No. of Courses	Semester I	Credits	No. of Courses	Semester II	Credits
1	Elective Courses (EC)		1	Elective Courses (EC)	
1A	Discipline Specific Elective(DSE)Courses		1A	Discipline Specific Elective(DS	E)Courses
1	Accountancy and Financial Management I	03	1	Accountancy and Financial Management II	03
1B	Discipline Related Elective(DR	RE)Courses	1B	Discipline Related Elective(DF	RE)Courses
2	Insurance Business I	03	2	Insurance Business II	03
3	Business Economics I	03	3	Business Economics II	03
2	Ability Enhancement Courses (AEC)		2	Ability Enhancement Courses (AEC)	
2A	Ability Enhancement Compuls Courses (AECC)	sory	2A	Ability Enhancement Compulsory Courses (AECC)	
4	Business Communication I	03	4	Business Communication II	03
5	Environmental Studies I	03	5	Environmental Studies II	03
2B	Skill Enhancement Courses (S	EC)	2B Skill Enhancement Courses (SEC)		
6	Foundation Course - I	02	6	Foundation Course - II	02
3	Core Courses (CC)		3 Core Courses (CC)		
7	Financial Mathematics I	03	7	Financial Mathematics II	03
	Total Credits	20	Total Credits 20		

Bachelor of Commerce (B.Com) Programme (Actuarial Studies) Under Choice Based Credit, Grading and Semester System Course Structure

(To be implemented from Academic Year- 2019-20)

Semester I

No. of Courses	Semester I	Credits
1	Elective Courses (EC)	
1A	Discipline Specific Elective(DSE)Courses	
1	Accountancy and Financial Management I	03
1B	Discipline Related Elective(DRE)Courses	
2	Insurance Business I	03
3	Business Economics I	03
2	Ability Enhancement Courses (AEC)	
2A	Ability Enhancement Compulsory Courses (AECC)	
4	Business Communication I	03
5	Environmental Studies I	03
2B	Skill Enhancement Courses (SEC)	
6	Foundation Course - I	02
3	Core Courses (CC)	
7	Financial Mathematics I	03
	Total Credits	20

With effect from the Academic Year 2019-20

Discipline Specific Elective (DSE) Courses 1. Accountancy and Financial Management (3 Credits)

Objectives:

- 1. To impart the knowledge of various accounting concepts, conventions, policies and related accounting standards to the learners.
- 2. To impart the knowledge to learners about accounting procedures, methods and techniques in solving problems and issues relating to various areas of accounting.
- 3. To acquaint learners with practical aspects of 'accounts writing' by giving them exposure to special areas of accounting such as Co-operative Housing Societies, Trust, Branches, Installment Sale, Lease Accounting, Single Entry, etc.

Semester I

Accountancy and Financial Management - Paper I (3 Credits)		
Sr. No.	Modules	No. of Lectures
1	Accounting Concepts, Conventions and Related Standards	15
2	Valuation of Inventories: AS-2	15
3	Final Accounts of Manufacturing Enterprise	15
4	4 Accounting for Installment Sale and Lease	
	60	

Sr. No.	Modules	
1	Accounting Concepts, Conventions and Related Standards	
	• Accounting Concepts: Business Entity, Going Concern, Money Measurement, Periodicity, Accrual, Matching, Realisation, Historical Cost, Fair Value, Dual Aspect, Contingent Assets, Contingent Liabilities, Provisions v/s Reserves, Charge v/s Appropriation	
	Accounting Conventions:	
	Conservatism, Materiality, Consistency, Uniformity	
	• Accounting Standards:	
	AS-1: Disclosure of Accounting Policies: Purpose, Areas of Policies, Illustrations	
	AS-6: Depreciation Accounting: Introduction, Definitions, Applicability, Disclosure,	
	Illustrations AS-9: Revenue Recognition: Meaning and Scope, Transactions excluded, Sale of Goods,	
	Rendering of Services, Effects of Uncertainties, Disclosure, Illustrations	
	AS-10: Accounting for Fixed Assets: Introduction, Definitions, Applicability, Disclosure, Illustrations	
2	Valuation of Inventories: AS-2	
	 AS-2: Valuation of Inventories: Meaning and Definition, Applicability, Measurement of Inventory, Disclosure in Final Account, Explanation with Illustrations Inventory Valuation (Stock): Cost for Inventory Valuation, Inventory Systems, Periodic Inventory, Perpetual Inventory, Valuation: Meaning and Importance, Methods of Stock Valuation as per AS-2, First in First Out (FIFO) Method, Weighted Average Method, Illustrations on 	
	computation of inventory as per above methods as on a particular date and as on a	
	balance sheet date if inventory is taken on a date which is either before or after the	
	balance sheet date	
3	Final Accounts of Manufacturing Enterprise	
	Expenditure: Capital, Revenue; Receipts: Capital, Revenue; Adjustment and	
	Closing Entries, Final Accounts of Manufacturing Concerns (Proprietary Firm)	

4	Accounting for Installment Sale and Lease
	 Installment Sale :Meaning, , Distinction between Hire Purchase and Installment Sale, Calculation of Interest, Accounting for Installment Sale by Asset Purchase (Credit Purchase) Method, Interest Suspense Method, Journal Entries, Ledger Accounts, (Including Default, Repossession and Calculation of Cash Price) Lease: Operational Lease, Financial Lease, Accounting in the books of Lessor, Accounting in the books of Lessee

Semester II

Accountancy and Financial Management - Paper II			
Sr. No.	Modules	No. of Lectures	
1	Accounting from Incomplete Records	15	
2	Accounting for Non-Profit Organisation w.r.t. Co-operative Housing Society and Trusts	15	
3	Departmental Accounts	15	
4	Branch Accounts	15	
	60		

Sr. No.	Modules
1	Accounting from Incomplete Records
	Introduction, Problems on preparation of final accounts of Proprietary Trading
	Concern (By Conversion Method)
2	Accounting for Non-Profit Organisation w.r.t. Co-operative Housing Society
	and Trusts
	Earmarked Funds, Earmarked Investments, Interest Accounting of Earmarked
	Investments, Other provisions in relation to preparation of Final Accounts,
	Receipts and Payments Accounts, Income and Expenditure Accounts and Balance
	Sheet
3	Departmental Accounts
	Meaning, Basis of Allocation of Expenses, Basis of Allocation of
	Incomes/Receipts, Inter Departmental Transfers, At Cost Price, At Invoice Price,
	Reserve, Illustrations –Departmental Trading and Profit & Loss Account and
	Balance Sheet
4	Branch Accounts
	Meaning, Classification of Branch, Accounting of Independent Branch,
	Accounting for Dependent Branch not maintaining full books by Debtors Method
	and Stock and Debtors Method.

Accountancy & Financial Management: Semester I & II

Paper Pattern (Academic Year: 2019-20)

Maximum Marks

: 60 : 2 Hours

Duration : 2 Hours Note: (1) Question No. 1 and 5 are Compulsory

(2) Attempt any Two Questions from the remaining Q. No. 2, 3 & 4.

(3) All questions carry 15 marks each

Question	Particulars (Nature of Questions)	Marks
No.		(To Be
1		Attempted)
1.	Concept /Application Based Questions (3 Marks Each)	15
	To be given : Seven	
	To be attempted : Any Five	
2.	Practical Question/s (*)	
3.	Practical Question/s (*)	(15×2)
4.	Practical Question/s (*)	= 30
5 (A)	Attempt any three out of five sub questions given (2	6
5 (B)	marks each)	9
	Short Notes: Attempt any three out of five given (3	
	marks each)	
	Total	60

*Note – Q. No. 2, 3 & 4 may be divided into sub questions of 10/5, 8/7 or 5/5/5 marks each.

Reference:

- 1. Introduction to Accountancy by T. S. Grewal, S. Chand and Company (P) Ltd., New Delhi
- 2. Advance Accounts by Shukla & Grewal, S. Chand and Company (P) Ltd., New Delhi
- 3. Advanced Accountancy by R. L Gupta and M Radhaswamy, S. Chand and Company (P) Ltd., New Delhi
- 4. Modern Accountancy by Mukherjee and Hanif, Tata Mc. Grow Hill & Co. Ltd., Mumbai
- 5. Financial Accounting by Lesile Chandwichk, Pentice Hall of India Adin Bakley (P) Ltd.
- 6. Financial Accounting for Management by Dr. Dinesh Harsalekar, Multi-Tech. Publishing Co. Ltd., Mumbai.
- 7. Financial Accounting by P. C. Tulsian, Pearson Publications, New Delhi Accounting Principles by Anthony, R.N. and Reece J.S., Richard Irwin Inc.
- 8. Financial Accounting by Monga, J.R. Ahuja, Girish Ahujaand Shehgal Ashok, Mayur Paper Back
- 9. Compendium of Statement & Standard of Accounting, ICAI. Indian Accounting Standards, Ashish Bhattacharya, Tata Mc. Grow Hill & Co. Ltd., Mumbai
- 10. Financial Accounting by Williams , Tata Mc. Grow Hill & Co. Ltd., Mumbai
- 11. Company Accounting Standards by Shrinivasan Anand, Taxman.
- 12. Financial Accounting by V. Rajasekaran, Pearson Publications, New Delhi.
- 13. Introduction to Financial Accounting by Horngren, Pearson Publications.
- 14. Financial Accounting by M. Mukherjee.M. Hanif. Tata McGraw Hill Education Private Ltd; New Delhi

With effect from the Academic Year 2019-20

Discipline Related Elective (DRE) Courses 2. Insurance Business I (3 Credits)

Objectives:

The objective of this course is to explain the concept of insurance as well as the underlying risks and returns to undergraduate students of commerce.

Semester I

Insurance Business I (Principles of Insurance)			
Sr. No.	Modules	No. of Lectures	
1	The Conceptual Framework	11	
2	The Insurance Contract	11	
3	Insurance Products	11	
4	The Insurance Market	12	
	Total No. of Lectures:45		

Sr. No.	Modules
1	The Conceptual Framework
	1. What is insurance- Meaning and Definition
	2. Brief history of Insurance
	3. Understanding Perils and Risks
	4. Classification of Risks and Hazards
	5. Role of Insurance in Social and Economic Development
	6. Classes of Insurance
	7. Growth and Evolution of Insurance Industry in India
	8. Unique Characteristics of Insurance Business
	9. Managing Risks
	10. Introduction into Insurance Funds
	11. Trustees in Insurance Business
	12. Reinsurance
•	13. Linking Insurance with Social Security
2	The Insurance Contract
	1. Utmost Good Faith or Uberrima Fides
	2. Insurable Interest
	3. Insurer's Insurable Interest
	4. Criminal Acts
	5. Indemnity
	 Subrogation and Contribution Proximate Cause
	 Proximate Cause Personal and Non-Personal Contracts
	 Distinguishing Insurance Contracts with other contracts Insurance Terminology- First Premium- Renewal- Mode- Limited
	Payment- Policies- Single Premium- Convertible- Days of Grace- Lapse-
	Paid Up Policy- Revival- Deferment Period- Nomination- Assignment-
	Bonus- Arbitration
3	Insurance Products
	1. Life Insurance Products including Government Schemes
	2. Introduction to Non-Life Insurance, Fire, Loss of Profits, Marine, Marine
	Cargo, Motor and Miscellaneous
	3. Personal, Accident, Hit and Run Cases, Aviation etc
	4. Insurance Policy and Documents- Certificates of Insurance, Open Policy,
	Floater, Franchise, Coinsurance
	5. Compensation under Insurance- Total Loss- Actual or Constructive Loss-
	Bonus- Replacement- Policy value- Agreed value- Full value- First Loss-
	Increased value

4	The Insurance Market
	1. Life and Non-Life Insurers- Reinsurers- Individual and Corporate Agents-
	Brokers- Surveyors- Medical Examiners- Third Party Administrators
	2. IRDA- Insurance Councils- Ombudsmen- Educational Institutes- Councils-
	Tariff Advisory Committee
	3. Career Opportunities in Insurance Business
	4. Ethical Aspects of Insurance Business

Insurance Business –II (Life and other Contingencies)

Objectives: 1.

- 2. <u>Learning Outcomes:</u> 1.
- 2.

Semester II

Insurance Business –II (Life and other Contingencies)			
Sr. No.	Modules	No. of Lectures	
1	Life Insurance Organization	15	
2	Introduction to Actuarial Valuation	10	
3	Annuities	10	
4	4 Introduction to health Insurance		
	Total No. of Lectures:45		

Sr. No.	Modules
1	Life Insurance Organization
	1. Introduction
	2. Approaches to Life Insurance- The Indian Context
	3. Internal Organization
	4. The Distribution System
	5. Appointment of Agents
	6. Functions of Agents
	7. Agency continuation and termination
	8. Remuneration to Agents
	9. Trends in Life Insurance
	10. Distribution Channels
	11. Premiums and Bonuses
	12. Net and Pure Premium
	13. Premium Calculation
	14. Lapse and Revival- Special Revival Scheme- Installment Revival Scheme-
	Loan- cum- Revival Scheme
	15. Assignment, Nomination
2	Introduction to Actuarial Valuation
	1. Bonus- Simple Reversionary Bonus- Compound Reversionary Bonus-
	Interim Bonus
	2. Plans of Life Insurance- Death Cover- Survival Benefit- Term Assurance-
	Pure Endowment- Linked
	3. Some Popular Plans
	4. Common Variations
	5. With profit and without profit polices
	6. Joint Life Policies
	7. Children Plans
	 Variable Insurance Plans Postal Life Insurance
3	
3	Annuities
	1. The nature of Annuity
	2. Immediate Annuity 2. Deferred Annuity
	3. Deferred Annuity
	4. Group Insurance- Introduction- Meaning of Group Insurance- Types of
	Group Insurance Schemes 5. Ways to meeting Gratuity Liability
	6. Group Superannuation Scheme
	7. Group Leave Encashment Schemes (GLES)
	8. Other Group Schemes
	9. Social Security Schemes
	10. Other Special Need Plans
	11. Industrial Life Insurance
	12. Married Women's Property (MWP) Act Policies
	13. Plans for Differently Abled

4	Introduction to Health Insurance
	1. Range of Products
	2. Awareness about health Contingencies
	3. Importance of Health Insurance in India
	4. Growth and Evaluation of Health Insurance Companies in India
	5. Insurance and Equity Funds
	6. Insurance and Debt Funds
	7. Insurance and Money Market Funds
	8. Liquid Funds
	9. Balanced Funds
	10. Premium Holiday
	11. Annuities and Pensions
	12. Future for Health Insurance

Insurance Business Paper I and Paper II

Question Paper Pattern (Academic Year: 2019-20)

I. Cumulative Continuous Assessment (CCA)

- Written test on concept clarity for 10 marks where the learners need to answer within two lines the concepts meant for testing for e.g.-words like invoice, tender, entrepreneur, examples of private sector, public sector, private companies,
- Individual project about Role of business in a growing economy. Faculty members could identify 15 to 20 topics and ask the learners to choose from. For example:
 - 1. Industrial revolution of 18th century compared with the revolution in the 19th, 20th century.
 - 2. Trade across the world during different time frame
 - 3. Banking reforms in India during last 100 years
 - 4. Retail revolution in the developed countries
 - 5. Relevance of make In India
 - 6. Aviation sector past, present and future
 - 7. Fruits of Liberalization-A comparison of 20 years prior to 1991 and 20 years
 - 8. Mergers and demergers in Indian public sector banks-last 50 years
 - 9. Laws relating to NPAs in India
 - 10. International trade-what? Why? And How?

As it is individual projects related to the syllabus, the learner may be tested for originality by making them answer one or two questions on the topic while accepting the submission

- Ten marks for group projects-This may cover successful businesses, start up space, Failure of business houses, Unethical practices found in business firms and many more. The evaluation shall be on the basis of project presentation. Rubrics may be developed and communicated
- Ten marks for any other criteria to be specified by the faculty.(including attendance) It is suggested that 5 marks be given for maintaining a commerce diary where weekly record of business events are recorded and suitable observations are made by the learner.

Five marks for a scrap book which will have a collection of forms and procedure used in every day transactions such as, credit card details, NEFT procedure, Face of cheque, Precaution while using ATM, meaning of banking code, innovative payment mechanisms etc.,

The contents of the scrap book may be divided as per the syllabus of 2 semesters.

- The scheme of marking need to be discussed with all other department members, authorized by the HOD and sanctioned by the Principal
- Scheme of marking need to be elaborate with the rubrics and should be enclosed with the instructions to be given to the students about the CCE programme
- Such document should form part of the teaching methodology
- Such document needs to be given wide publicity amongst the students.
- The document to be submitted to the Exam wing well in advance preferably within 2 to 3 weeks after the commencement of the semester.

Total: 40 marks

II. Semester End Examination (SEE)- 60 Marks

Maxin	num Marks	: 60
Durati	on	: 2 Hours
Note:	(1) All questions are Compu	lsory.

Question No.	Particulars (Nature of Questions)	Marks
Q-1	Answer any 2 out of 3	
(Module-I)	a)	12
	b)	12
	c)	
Q-2	Answer any 2 out of 3	
(Module-II)	a)	
	b)	12
	c)	
Q-3	Answer any 2 out of 3	
(Module-III)	a)	12
	b)	12
	c)	
Q-4	Answer any 2 out of 3	
(Module-IV)	a)	12
	b)	12
	c)	
Q-5	A) Experience based question based on the various	
	projects presented in the class by the students / Case	
	Study	12
	OR $D) Write chart notes on (Ann 2 out of 4)$	
	B) Write short notes on(Any 3 out of 4)	
	Based on entire syllabus	(0)
	Total	60

References:

1.Kew John, Business Environment: Managing in a Strategic Context, Jaico Publications 2006

2. Hanke John K, Business Forecasting, Prentice Hall India, 2002

3. Paul Justin, Business Environment, Tata McGraw Hill, 2008

4. Butter David, Business Planning: A Guide to Business Start-up, Butterworth Heinemann, 2003

5. Piramal Gita, Business Legends, Penguin Books, 1998

6. Hitt Michael A, Strategic Management, Cengage Learning ,2016

7. Zeithaml, Valarie A, Services Marketing, McGraw Hill Education, 2011

8.Gupta S L, Retailing & amp; E- tailing, International Book House, New Delhi, 2011

9. Raghuram G, Logistics & amp; Supply Chain Management: Cases and Concepts, Macmillan Business Books,

10. Joseph P T, E-Commerce an Indian Perspective, Prentice Hall India, 2015

With effect from the Academic Year 2019-20

Discipline Related Elective (DRE) Courses 3. Business Economics (3 Credits)

Preamble:

This paper provides an overall introduction to economics as dealing with the problems of allocation of scarce resources in optimum manner. It aims to build a familiarity with the basic tools of consumer and producer theory, the operation of markets and optimisation in an economic context. Inorder to explain economic issues and solutions in a practical manner, the concepts are to be discussed with case studies and numerical problems wherever applicable.

Semester I

mounts at a Grance	Modules	at	a Gl	lance
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	Business Economics-I	
Sr. No.	Modules	No. of Lectures
1	Demand Analysis	10
2	Consumer Behaviour Theory	15
3	Supply and Production Decisions	10
4	Cost of Production	10
	Total No. of Lectures:	45

Sr.No.	Modules
1	Demand Analysis
	Demand Function and determinants of demand - Concept and Importance of
	Elasticity of Demand: Income, Cross and Promotional.
	Demand Estimation and forecasting: Meaning and significance -
	methods of demand estimation
	survey and statistical methods (numericalexamples on trend analysis and simple
2	linear regression)
2	Consumer Behaviour Theory
	Ordinal Utility theory: (Indifference curve approach): Consumer's preferences;
	Indifference curves; Budget line; Consumer's equilibrium (necessary and sufficient conditions)
	Income and substitution effect; Price consumption curve.
	Indifference curves as an analytical tool (Cash subsidy v/s kind subsidy)
	Consumer surplus
3	Supply and Production Decisions
	Production function: short run analysis with Law of Variable Proportions-
	Production function with two variable inputs-
	isoquants, ridge lines and least costcombination of inputs-
	Long run production function and Laws of Returns toScale - expansion path -
	Economies and diseconomies of Scale.
4	Cost of Production
	Cost concepts: accounting cost and economic cost, implicit and explicit cost,
	social and private cost, historical cost and replacement cost, sunk cost and
	incremental cost - fixed and variable cost - total, average and marginal cost- Cost
	Output Relationship in the Short Run and Long Run –(hypothetical numerical
	problems to be discussed).

Semester II

	Business Economics-II	
Sr. No.	Modules	No. of Lectures
1	Market Structure	15
2	Factor Markets	10
3	Pricing practices	10
4	Market Failure	10
	Total No. of Lectures:	45

Sr. No.	Modules
1	Market Structure
	Perfect Competition : Assumption; Equilibrium of the firm in the short run and long run, The long run industry supply curve. Imperfect Competition:
	(i)Monopoly: Short-run and long-run equilibrium of monopoly firm; Concept of supply curve under monopoly; Allocation inefficiency and dead-weight loss monopoly.
	 (ii) Monopolistic Competition: Assumption; Short run Equilibrium; Long run Equilibrium; Concepts of excess capacity (iii) Oligopoly and interdependence- Kinked demand curve, collusive oligopoly-price leadership model- dominant firm.
2	Factor Markets
	Factor markets- Factor pricing in the case of short and long run under conditions of perfect and imperfect commodity markets; Determination of factors rewards under conditions of Monopsony, bilateral monopoly and role of labour unions. Economic rent and quasi rent.
3	Pricing practices
	Cost oriented pricing methods: cost –plus (full cost)/mark- up pricing, marginal costpricing, Mark up pricing, discriminating pricing, multiple – product pricing - transfer pricing (case studies on how pricing methods are used in business world)
4	Market Failure
	Market failure Externalities: Environment and its impact on market, Common property resources and public goods, Asymmetric Information and Signaling, moral hazard, principal-agent problem.

Business Economics

Semester I & II

Question Paper Pattern (Academic Year: 2019-20)

I. Continuous Assessment (CA) - 40 Marks

(i) CA-I: Test – (Objective type of questions)- 20 Marks

(ii) CA-II: Case Studies/Assignments/Industrial Visits- 20 Marks

II. Semester End Examination (SEE) - 60 Marks

Maximum Marks

Duration

: 60 : 2 Hours

Note: (1) Question No. 1 is compulsory.

(2) Attempt any **one question out of three** in each question.

(3) All questions carry 15 marks each.

Question No.	Particulars (Nature of Questions)	Marks (To Be Attempted)
Q-1	A) Full Length Question	
(Module-I)	B) Three Short Notes (5 Marks Each)	15
	C) Application/Numerical Question	
Q-2	A) Full Length Question	
(Module-II)	B) Three Short Notes (5 Marks Each)	15
	C) Application/Numerical Question	15
Q-3	A) Full Length Question	
(Module-III)	B) Three Short Notes (5 Marks Each)	15
	C) Application/Numerical Question	
Q-4	A) Full Length Question	
(Module-IV)	B) Three Short Notes (5 Marks Each)	15
	C) Application/Numerical Question	
	Total	60

References:

- Mehta, P.L.: Managerial Economics Analysis, Problem and Cases (S. Chand & Sons, N. Delhi)
- 2. Hirchey.M., Managerial Economics, Thomson South Western
- 3. Salvatore, D.: Managerial Economics in a global economy (Thomson South We stern Singapore)
- 4. Frank R.H, Bernanke.B.S., Principles of Economics (Tata McGraw Hill)
- 5. Gregory Mankiw., Principles of Economics, Thomson South Western
- 6. Samuelson & Nordhas.: Economics (Tata McGraw Hills, New Delhi)
- 7. Pal Sumitra, Managerial Economics cases and concepts (Macmillan, New Delhi)

With effect from the Academic Year 2019-20

Ability Enhancement Courses (AECC) 4. Business Communication (3 Credits)

Objective:

- 1. To develop learners' awareness of the communication process
- 2. To develop effective listening skills in students so as to enable them to comprehend instructions and become a critical listener
- 3. To develop effective spoken language skills so as to enable students to speak confidently, interpersonally as well as in groups
- 4. To develop effective writing skills so as enable students to write in a clear, concise, domain-specific and audience-centred manner
- 5. To develop ability to communicate effectively with the help of electronic media
- 6. To familiarize the learners with the nuances of corporate communication
- 7. To develop global communication competency in learners
- 8. To use innovative and progressive evaluation techniques
- 9. To integrate E-learning and M-learning in instruction and assessment

Course Outcome:

On completion of the course, the learner will have the skill and knowledge of:

- 1. various types of oral, written and digital communication modes
- 2. effective business writing
- 3. effective presentations
- 4. effective interpersonal communication
- 5. communication that maximises team effectiveness
- 6. soft skills and employability skills
- 7. communication that makes effective personality

Semester I

Modules at a Glance

	Business Communication-I	
Sr. No.	Modules	No. of Lectures
1	Theory of Communication	12
2	Obstacles to Communication in Business World	12
3	Business Correspondence	12
4	Writing Skills	09
	Total No. of Lectures:	45

Note: One tutorial per batch per week in addition to number of lectures stated above (Batch size as per the University norms)

Sr. No.Modules1Theory of Communication1Concept of Communication: Meaning, Definition, Process, Need, Feedback, and impact of technological advancements on communicationChannels and Objectives of Communication: Channels: Formal and Informal, Vertical, Horizontal, Diagonal and GrapevineObjectives of Communication: Information: Advice, Order and Instruction, Persuasion, Motivation, Education, Warning, and Boosting the Morale of Employees.Methods and Modes of Communication: Methods: Verbal and Nonverbal, Characteristics of Verbal Communication Characteristics of Non-verbal Communication Modes: Telephone, Computers and E- communication, Video and Satellite Conferencing, Social media.2Obstacles to Communication in Business World, Listening and Communication EtiquetteProblems in Communication /Barriers to Communication: Physical/ Semantic/Language / Socio-Cultural / Psychological Barriers, ways to overcome these barriers Listening: Importance of Listening Skills, Process of listening, Cultivating good Listening Skills, types of listening skills Communication etiquette: Etiquette of letter writing, E-mail etiquette, Telephone etiquette, Social media etiquette, Corporate etiquette.3Business Correspondence3Business Letter Writing and Email: Parts, Structure, Layouts—Full Block, Principles of Effective Letter Writing,
impact of technological advancements on communicationChannels and Objectives of Communication: Channels: Formal and Informal, Vertical, Horizontal, Diagonal and GrapevineObjectives of Communication: Information, Advice, Order and Instruction, Persuasion, Motivation, Education, Warning, and Boosting the Morale of Employees.Methods and Modes of Communication: Methods: Verbal and Nonverbal, Characteristics of Verbal Communication Characteristics of Non-verbal Communication Modes: Telephone, Computers and E- communication, Video and Satellite Conferencing, Social media.2Obstacles to Communication in Business World, Listening and Communication EtiquetteProblems in Communication /Barriers to Communication: Physical/ Semantic/Language / Socio-Cultural / Psychological Barriers, ways to overcome these barriers Listening: Importance of Listening Skills, Process of listening, Cultivating good Listening Skills, types of listening skills Communication etiquette: Etiquette of letter writing, E-mail etiquette, Telephone etiquette, Social media etiquette, Corporate etiquette.3Business Correspondence Theory of Business Letter Writing and Email:
Channels and Objectives of Communication: Channels: Formal and Informal, Vertical, Horizontal, Diagonal and Grapevine Objectives of Communication: Information, Advice, Order and Instruction, Persuasion, Motivation, Education, Warning, and Boosting the Morale of Employees. Methods and Modes of Communication: Methods: Verbal and Nonverbal, Characteristics of Verbal Communication Characteristics of Non-verbal Communication Modes: Telephone, Computers and E- communication, Video and Satellite Conferencing, Social media.2Obstacles to Communication in Business World, Listening and Communication EtiquetteProblems in Communication /Barriers to Communication: Physical/ Semantic/Language / Socio-Cultural / Psychological Barriers, ways to overcome these barriers Listening Skills, types of listening skills, Communication etiquette: Etiquette of letter writing, E-mail etiquette, Telephone etiquette, Social media etiquette, Corporate etiquette.3Business CorrespondenceTheory of Business Letter Writing and Email:
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Parts Structure Layouts—Full Block Principles of Effective Letter Writing
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Principles of effective Email Writing, Email Drafting- regular office
correspondence.
Personnel Correspondence:
Statement of Purpose, Job Application Letter and Resume, Letter of Acceptance
of Job Offer, Letter of Resignation
[Letter of Appointment, Promotion and Termination, Letter of Reference, Letter
of Refusal, office circular, office order, Memo - to be taught but not to be tested in
the examination]
4 Language and Writing Skills
A. Paragraph Writing:
Developing an idea, using appropriate linking devices, etc
Cohesion and Coherence, self-editing, etc [Interpretation of technical data,

Composition on a given situation etc.]
B. Activities (Tutorial)
• Speaking Skills: Telephonic communication, Debate, Dialogue and
Speeches
• Paragraph Writing: Preparation of the first draft, Revision and Self –
Editing, Rules of spelling and punctuation
Use of mobile-based dictionary

Semester II

Modules at a Glance

Business Communication-II		
Sr. No.	Modules	No. of Lectures
1	Group Communication	15
2	Business Correspondence	15
3	Presentation Skills	05
4	Language and Writing Skills	10
	Total No. of Lectures:	45

Note: One tutorial per batch per week in addition to number of lectures stated above (Batch size as per the University norms)

Sr. No.	Modules	
1	Group Communication	
	Interviews: Definition of interview, types of Interviews – Selection – face to face,	
	telephonic/online, Appraisal, Grievance, Exit, Basics of job interview, preparin	
	for a job Interview, how to use social media – job portal like timesjobs, naukari	
	etc., professional portals like Linkedin etc.	
	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	
	Conference: Meaning and Importance of Conference, Organizing a Conference,	
	Modern Methods: Video and Tele-Conferencing	
	Public Relations: Meaning, Functions of PR Department, External and Internal	
	Measures of PR	
2	Business Correspondence	
	Trade Letters: Precautions to be taken while drafting trade letters. Order, Credit	
	and Status Enquiry, Purchase order.	
	Only following to be taught in detail: -	
	1. Letters of Inquiry and reply to inquiry	
	2. Letters of Complaints, Claims, Adjustments	
	3. Letters under Right to Information (RTI) Act	
	4. Consumer Grievance and Redressal Letters	
	5. Promotional leaflets, fliers and Sales letter	
3	Presentation Skills	
	Selection of topics, structure of presentation, Use of PPT, Body language and non-	
	verbal cues	
4	Language and Writing Skills	
	A. Reports: Parts, Types, Feasibility Reports, Investigative Reports, Project	
	Report, Business Proposal.	
	B. Summarisation: Identification of main and supporting/sub points. Presenting	
	these points in a cohesive manner.	

Business Communication Paper I and Paper II

Question Paper Pattern (Academic Year: 2019-20)

I. Tutorial Activity: 40 Marks

Vocabulary building exercises (scrabble, crosswords, word games etc.) Scrap book of all the letters

Making of a dictionary / Creating functional dictionary

- 1. Speech (10 marks)
- 2. Debate (10 marks)
- 3. Role Play (10 marks)
- 4. SWOC Self Analysis of the student (05 Marks) online submission
- 5. Paragraph Writing- (05 Marks) online submission

II. Semester End Examination (SEE): 60 Marks

Maximum Marks	: 60
Duration	: 2 Hours

Note: (1) All questions are compulsory.

Question No.	Particulars (Nature of Questions)	Marks (To Be Attempted)
Q-1	Short Notes – Any 3 out of 5	
(Module-I &		15
II)		
Q-2	Essay type question – Any 2 out of 4	
(Module -I &		20/15
II)		
Q-3	*Job Application and Resume Writing	
(Module -III)	(Fresher/Experience) – Any 1 out of 2	
	**Letter of inquiry	10/15
	Letters of Complaints, Claims, Adjustments	10/13
	Letters under Right to Information (RTI) Act	
	Consumer Grievance and Redressal Letters	
Q-4	*Letter Writing (SOP, Job Acceptance, Job	
(Module -IV)	Resignation, e-mail) – Any 2 out of 4	15
	**Report Writing/ Business Proposal &	15
	Summarization	
	Total	60

*Semester I **Semester II

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Suggested List of MOOCs

- 1. https://www.mooc-list.com/tags/communication-skills
- 2. https://www.mooc-list.com/.../effective-communication
- 3. https://www.mooc-list.com/tags/business-communication
- 4. https://www.skilledup.com/.../learn-communications-online-free
- 5. http://www.about.com/Communication+Skills+List

Courses:

- 1. https://www.coursera.org/learn/management-leadership-english#
- 2. https://www.coursera.org/learn/business#
- 3. https://www.coursera.org/learn/powerpoint-presentations

With effect from the Academic Year 2019-20

Ability Enhancement Compulsory Courses (AECC) 5. Environmental Studies (3 Credits)

Course Outcome

- 1. The successful completion of the course will create an environmental awareness among Commerce students.
- 2. It will make students aware about various environmental factors and their relation to the field of Commerce.
- 3. The course will highlight functional and spatial links between environment, economy and society.
- 4. The course will create an insight into various environmental issues at various levels and environmental movements towards making environment sustainable.

Semester I

Environmental Studies-I		
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	Urbanization and Environment	13
5	Reading of Thematic Maps and Map Filling	08
	Total No. of Lectures:	60

Sr. No	Modules
1.	Environment and Ecosystem
	Environment: Meaning, definition, scope; Various spheres of environment
	(Atmosphere, lithosphere, hydrosphere and biosphere), Layers of atmosphere; 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 utilization; Resource conservation-meaning and methods - conventional and
	non-conventional resources, problems associated with and management of water, forest
2	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
	land use, 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
	Reading of Thematic Maps (4 Lectures)
	Located bars, Circles, Pie charts, Isopleths, Choropleth and Flow map, Picograms-
	Only reading and interpretation.
	Map Filling: (4 Lectures)
	Map filling of World (Environmentally significant features) using point, line and
	polygon segment.

Semester II

Environmental Studies-II		
Sr. No.	Modules	No. of Lectures
1	Solid Waste Management for Sustainable Society	13
2	Agriculture and Industrial Development	13
3	Tourism and Environment	13
4	Environmental Movements and Management	13
5	Map Filling	08
	Total No. of Lectures:	60

Sr. No.	Modules
1.	Solid Waste Management for Sustainable Society
	Classification of solid wastes–Types and Sources of Solid Waste; Effects of Solid Waste Pollution-Health hazards, Environmental Impacts; Solid Waste Management–solid waste management in Mumbai- Schemes and initiatives run by MCGM- Role of citizens in Waste Management in Urban and Rural areas.
2.	Agriculture and Industrial Development
	Environmental Problems Associated with Agriculture: Loss of Productivity, Land Degradation, desertification- Uneven Food Production– Hunger, Malnutrition and Food Security–Sustainable Agricultural practices, GMO/Crops, Environmental Problems Associated with Industries- pollution- Global warming, Ozone Layer Depletion, Acid rain, Sustainable Industrial practices– Green Business and Green Consumerism, Corporate Social Responsibility towards environment
3.	Tourism and Environment
	Tourism: Meaning, Nature, Scope and importance– Typology of tourism with special reference to Ecotourism; Tourism potentials in India and challenges before India; Consequences of tourism: Positive and Negative Impacts on Economy, Culture and environment- Ecotourism
4.	Environmental Movements and Management
	Environmental movements in India: Save Narmada Movement, Chipko Movement, Appiko Movement, Save Western Ghats movement and other contemporary environmental movements; Environmental Management: Concept, need and relevance; Concept of ISO 14000; Concept of Carbon Bank and Carbon Credit, EIA, ecological footprint; Environment Protection Acts; Concept and components of Geospatial Technology- Applications of GST in Environmental Management
5.	Map Filling
	Map filling of Konkan (4 Lectures) and Mumbai (4 Lectures) (Environmentally significant features)

Environmental Studies Semester I & II

Question Paper Pattern (Academic Year: 2019-20)

I. Class test

: 10 marks : 10 marks

: 20 marks

- II. Map practice work/ Exhibition
- III. Project / Field Work

Project/Field Work shall include:

- a. Composting
- b. E-waste management
- c. Tetra pack management
- d. Field tours/ Nature trails
- e. Beach clean up
- f. Group assignments/projects
- g. Case studies
- h. Article review
- i. Book review
- j. visit to a solid waste/ medical waste/ e-waste recycling unit
- k. Industrial visit
- l. Visit to an NGO
- m. Debate club
- n. Documentary review
- o. Plastic waste management
- p. Case studies related to other projects mentioned above (National/International level)
- q. Swachh Bharat Abhiyaan (in different areas)
- r. Develop a game for waste management/green campus/environmental conservation
- s. Best out of Waste Project
- t. Environmental / Green Audit.

Total: 40 marks

Semester End Examination (SEE)- 60 Marks IV.

Maximum Marks

Duration

:60 : 2 Hours

Note: (1) All questions are compulsory, subject to internal choice. (2) Draw diagrams wherever necessary.

(3) Figures to the right indicate full marks.

Question No.	Particulars (Nature of Questions)	Marks (To Be Attempted)
Q-1	 * A) Reading and interpretation of World thematic map (05 Marks) B) Map filling-World map (05 Marks) ** A) Map filling- Mumbai Map (05 Marks) B) Map filling- Konkan Map (05 Marks) 	10
Q-2 (Module-I)	A) Full length questionORB) Full length question	10
Q-3 (Module-II)	A) Full length questionORB) Full length question	10
Q-4 (Module-III)	A) Full length questionORB) Full length question	10
Q-5 (Module IV)	A) Full length questionORB) Full length question	10
Q-6	 Write a short notes (Any Two) a. From Unit-I b. From Unit-II c. From Unit-III d. From Unit-IV 	10
	Total	60

*Semester-I **Semester-II

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Syllabus of courses of F.Y.B.Com Programme (Actuarial Studies)

With effect from the Academic Year 2019-20

Skill Enhancement Course (SEC) 6. Foundation Course (2 Credits)

Objectives (for the learners):

- 1) To help the learner understand the inter-disciplinary approach of social fabric.
- 2) To sensitize learners on the socio-economic concerns in India with specific focus on the issues of the youth
- 3) To help learners articulate their views on the contemporary social issues.

Course Outcome:

- 1) The successful completion of course will enable the learner to understand factual aspects of Indian society.
- 2) It will help create awareness and empathy among learners about various issues faced by youth
- 3) It will help ingrain sense of social responsibility and participatory approval towards society.

Semester I

Modules at a Glance

Foundation Course – I		
Sr. No.	Modules	No. of Lectures
1	Indian Society- Unity in Diversity and Conflicts	9
2	Social issues and problems	9
3	The Indian Constitution	9
4	Significant Aspects of Political Processes	9
5	Project	9
Total No. of Lectures:		45

Sr. No.	Modules	
Unit I	Indian Society- Unity in Diversity and Conflicts	
	Concept of diversity vs disparity. Understand the multi -cultural diversity of Indian society; understand the regional variations: Rural, Urban and tribal. Inequalities and Inter group conflicts arising due to: Linguistic differences- Linguistic Regionalism; Religion – Communal Violence; Caste- Social unrest; Socio-Political – Naxalism; Affirmative action by the government to the address the conflicts	
Unit II	Social issues and problems	
	Explore the disparities arising out of gender with specific reference to violence against women and Psycho social and economic inequalities arising thereafter; Measures to enhance Status of women Understand the issues of people with physical and mental disabilities and role of society and government in facilitating their rehabilitation.	
Unit III	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.	
Unit IV	Significant Aspects of Political Processes	
	The party system in Indian politics; Local self-government in urban and rural areas; the 73 rd and 74 th Amendments and their implications for inclusive politics; Role and significance of women in politics.	

Foundation Course–II

Objectives:

- 1) To understand the current economic reforms in India
- 2) To understand the genesis and present form of Human rights.
- 3) To understand oneself and manage personal stress and conflict for harmonious

interpersonal relationships.

Course Outcome:

- 1) The successful completion of the course will help learners to understand the impact of globalization on Indian Economy.
- 2) It will create awareness about the current status and Human Rights.

3) It will help learners to understand the cause and effect relationship with respect to stress and conflict thus enabling them to cope up with growing anxiety and stress in society.

Semester II

Modules at a Glance

Foundation Course – II		
Sr. No.	Modules	No. of Lectures
1	Globalisation and Indian Society	9
2	Human Rights	9
3	Understanding oneself	9
4	Stress and conflict management	9
5	Project	9
	Total No. of Lectures:	45

Sr.No.	Modules / Units		
Unit I	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.		
Unit II	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 FundamentalRights stated in the		
	Constitution		
Unit III	Childer standing onesen		
	Defining self and Personality development; determinants of Personality development; agents of socialisation and roles played by them in Individual development, Maslow's theory of self-actualisation. Aggression and Violence as the public expression of internal conflict.		
Unit IV	Stress and conflict management		
	Meaning of stress ; it's causes and Coping mechanisms for managing stress, Meaning of conflict;		
	Its causes and response in society; Individual Conflict – resolution and efforts towards building peace and harmony in society.		

Foundation Course Semester I & II

Question Paper Pattern (Academic Year: 2019-20)

I. Continuous Assessment (CA)– 40 Marks

- 1) Project I (20 Marks)
- 2) Project II (20 Marks)

II. Semester End Examination (SEE)- 60 Marks

Maximum Marks: 60Duration: 2 Hours

Note: (1) All questions are compulsory.

(2) Attempt **any two out of three sub questions** from each question.

Question No.	Particulars (Nature of Questions)	Marks (To Be Attempted)
Q-1	A) Full Length Question	
(Module-I)	B) Full Length Question	15
	C) Reflective Question	
Q-2	A) Full Length Question	
(Module-II)	B) Full Length Question	15
	C) Reflective Question	15
Q-3	A) Full Length Question	
(Module-III)	B) Full Length Question	15
	C) Reflective Question	
Q-4	A) Full Length Question	
(Module-IV)	B) Full Length Question	15
	C) Reflective Question	
	Total	60

References: Semester I:

1. Indian Society and Culture, Vinita Padey, Rawat Pub (2016)

2. Social Problems in India, Ram Ahuja, Rawat Pub (2014)

3. Faces of Feminine in Ancient, medieval and Modern India, Mandakranta Bose Oxford University Press

4. National Human rights commission- disability Manual

5. Rural, Urban Migration: Trends, challenges & Strategies, S Rajagopalan, ICFAI-2012

6. Regional Inequalities in India Bhat L SSSRD- New Delhi

7. Urbanisation in India: Challenges, Opportunities & the way forward, I J Ahluwalia, Ravi Kanbur, P K Mohanty, SAGE Pub (2014)

8. The Constitution of India, P M Bakshi (2011)

9. The Problems of Linguistic States in India, Krishna Kodesia Sterling Pub

10. Politics in India: structure, Process and Policy Subrata Mitra, Rouutlege Pub

11. Politics in India, Rajani Kothari, Orient Blackswan

12. Problems of Communalism in India, Ravindra Kumar Mittal Pub

13. Combating communalism in India: Key to National Integration, Kawal Kishor Bhardwaj, Mittal Pub

Semester II:

1. A decade of economic reforms in India (The past, the present, the future)-Edited by Raj Kapila and Uma Kapila, Academic Foundation (2002)

2. Impact of the policies of WTO on Indian agriculture - S. Nehru, Serial Pub. (2012)

3. Privatisation of public enterprises – Emerging dimensions – Edited by G.S. Batra, Narinder Kaur, Anmol Pub. (1995)

4. Economics of development – Dwight Perkins, Steven Radelet, David Lindauer, Norton company (2006)

5. Industrial Policy and economic development in India (1947 -2012) – Anup Chatterjee New Century Pub.(2012)

6. Globalisation and development of backward areas – Edited by G. Satyanarayana New Century Pub. (2007)

7. Contemporary issues in globalisation – An introduction to theory and policy in India Soumyen Sikder, Oxford University Press (2002)

8. Universal Human Rights: In theory and practice, Jack Donnelly, (2014)

9. Stress Management – Dr. N. Tejmani Singh, Maxford books (2011)

10. Stress blasters – Brian Chichester, Perry Garfinkel and others, Rodale Press (1997)

Syllabus of courses of F.Y.B.Com Programme (Actuarial Studies)

With effect from the Academic Year 2019-20

Core Courses (CC) 7. Financial mathematics (3 Credits)

Objective:

The main objective of this course is to introduce financial mathematics to undergraduate students of commerce, so that they can use them in the field of commerce and industry to solve the real life problems.

Semester I

Modules at a Glance

Financial Mathematics I		
Sr. No.	Modules	No. of Lectures
1	Functions and their applications	15
2	Sequences and Series	15
3	Permutations and Combinations	15
4	Interest	15
	Total No. of Lectures:	60

Total number of lectures 75 +Notional75 = 150 lectures = 3 CREDITS

Sr. No.	Modules
1	Functions and their Applications
	1. Introduction- Function
	2. Types of Functions- One-one functions, Onto Functions, Algebraic
	Functions, Logarithmic Functions and Exponential Functions, Grapgh of
	Functions
	3. Problems on functions
	4. Functions related to Business and Economics (Demand Function, Supply
	Function, Cost Function, Revenue Function and Profit Function
	5. Problems based on these functions
2	Sequences and Series
	1. Sum of the Series
	2. Arithmetic Progression (AP), Geometric Progression (GP)
	3. Sum of AP, Sum of GP
3	Permutations and Combinations
	1. Introduction- Meaning of Factorial Notation
	2. Fundamental Principle, Permutations, Problems on Permutations
	3. Combinations, Problems on combinations
4	Interest
	1. Simple Interest, Problems on Simple Interest
	2. Compound Interest, Problems on Simple Interest
	3. Present Value, Nominal and Effective Rate of interest

Semester II

Modules at a Glance

Financial Mathematics-II		
Sr. No.	Modules	No. of Lectures
1	Matrices	15
2	Graph of Linear Inequalities	15
3	Annuity and Sinking funds	15
4	Shares and Mutual Funds	15
	Total No. of Lectures:	60

Total number of lectures 75 + Notional75 = 150 lectures = 3 CREDITS

Sr. No.	Modules	
1	Matrices	
	 Introduction- Definition of a Matrix, Types of Matrices, Equal Matrices, Matrix Addition, Multiplication of a Matrix by a Scalar, Matrix Multiplication, Problems on the above concepts Transpose of a Matrix, Orthogonal; Matrix, Symmetric and Skew Symmetric Matrices, Determinant of a square Matrix, Adjoint of a Matrix, Inverse of a Matrix Problems based on the above concepts Elementary Operations on a matrix, Reduction Method for finding inverse of a matrix, Solution of a system of Linear Equations 	
2	5. Problems based on the above concepts Graph of Linear Inequalities	
	1. Introduction, Inequality, Solution of an inequality, Graph of an inequality,	
	 System of Linear Inequalities Mathematical Formulation of Linear Programming Problems. Solution of Linear programming Problems using graphical method up to two variables 	
	4. Application of linear inequalities in practical problems	
3	Annuity and Sinking Funds	
	 Introduction- Concept of Annuity, Classification of Annuities, Amount of an ordinary annuity, Present Value of an ordinary annuity, Amount of an annuity due, Present value of an annuity due Amount of a deferred annuity, sinking fund, Perpetual Annuity, Amortization, Leasing, Capital Expenditure and Bonds 	
4	Shares and Mutual Funds	
	 Introduction- Concept of share, face value, market value, dividend, equity shares, preferential shares, bonus shares Problems based on these concepts Mutual funds: Simple problems on calculations of Net income after considering entry load, Dividend, change in Net Asset value (N.A.V) and Exit Load Averaging of price under the Systematic Investment Plans (S.I.P) 	

Financial Mathematics Semester I & II

Question Paper Pattern (Academic Year: 2019-20)

I.	Tutorial Test I	: 15 marks
II.	Tutorial Test II	: 15 marks
III.	Viva Based on Tutorials	: 05 marks
IV.	Class Participation & Attendance	: 05 marks
Т	otal: 40 marks	
V.	Semester End Examination (SEE)	60 Marks
	Maximum Marks	: 60

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Number of Questions to be Set	: 5 (Five)
Duration	: 2 Hours
Notes (1) All questions are commul	0.041

Note: (1) All questions are compulsory. (2) Attempt **any three out of four sub questions** from each question.

Question No.	Particulars (Nature of Questions)	Marks (To Be Attempted)
Q-1	A) Numerical	
(Module-I)	B) Numerical	12
	C) Numerical	12
	D) Higher Order Thinking Skills	
Q-2	A) Numerical	
(Module-II)	B) Numerical	12
	C) Numerical	12
	D) Higher Order Thinking Skills	
Q-3	A) Numerical	
(Module-III)	B) Numerical	12
	C) Numerical	12
	D) Higher Order Thinking Skills	
Q-4	A) Numerical	
(Module-IV)	B) Numerical	12
	C) Numerical	12
	D) Higher Order Thinking Skills	
Q-5	A) Numerical	
(Module-V)	B) Numerical	12
	C) Numerical	12
	D) Higher Order Thinking Skills	
	Total	60

Reference :

- Mathematics for Economics and Finance Methods and Modelling by Martin Anthony and Norman Biggs, Cambridge University Press, Cambridge low-priced edition, 2000, Chapters 1, 2, 4, 6 to 9 & 10.
- Applied Calculus: By Stephen Waner and Steven Constenoble, Brooks/Cole Thomson Learning, second edition, Chapter 1 to 5.
- Business Mathematics By D. C. Sancheti and V. K. Kapoor, Sultan Chand & Sons, 2006, Chapter 1, 5, 7, 9 &10.
- Mathematics for Business Economics: By J. D. Gupta, P. K. Gupta and Man Mohan, Tata Mc-Graw Hill Publishing Co. Ltd., 1987, Chapters 9 to 11 & 16.
- Quantitative Methods-Part-I By S. Saha and S. Mukerji, New Central Book Agency, 1996, Chapters 7 & 12.
- Mathematical Basis of Life Insurance By S.P. Dixit, C.S. Modi and R.V. Joshi, Insurance Institute of India, Chapters 1 and 2
- Securities Laws & Regulation of Financial Market : Intermediate Course Paper 8, Institute of Company Secretaries of India, Chapter 11.
- Investments By J.C. Francis & R.W. Taylor, Schaum's Outlines, Tata Mc-Graw Hill Edition 2000, Chapters 2,4 & section 25.1.
- Indian Mutual Funds Handbook : By SundarShankaran, Vision Books, 2006, Sections 1.7,1.8.1, 6.5 & Annexures 1.1to 1.3.
- 10. STATISTICS by Schaum Series.
- 11. Operations Research by Gupta and Kapoor.
- 12. Operations Research by Schaum Series.
- 13. Fundamentals of Statistics D. N. Elhance.
- 14. Statistical Methods S.G. Gupta (S. Chand & Co.
- 15. Statistics for Management Lovin R. Rubin D.S. (Prentice Hall of India)
- 16. Statistics Theory, Method & Applications D.S.Sancheti& V. K. Kapoor.
- 17. Modern Business Statistics (Revised}-B. Pearles& C. Sullivan Prentice Hall of India.
- 18. Business Mathematics & Statistics : B Aggarwal, Ane Book Pvt. Limited.
- 19. Business Mathematics : D C Sancheti& V K Kapoor, Sultan Chand & Sons.

- 20. Business Mathematics : A P Verma, Asian Books Pvt. :Limited.
- Statistics of Management , Richard Levin & David S. Rubin, Printice Hall of India , NewDelhi.
- 22. Statistics for Business & Economics, David R Anderson, Dennis J Sweney, ThopmsonPublication.
- 23. Business Statistics , Bharadwaj , Excel Books, Delhi
- 24. Business Mathematics, S.K Singh & J.K Singh, Brijwasi Book Distributor & Publisher.
- 25. Mathematics for Economics and Finance, Martin Anthony, Norman Biggs, Cambridge lowprice editions,2000.
- 26. Business Mathematics, J.K. Singh, 2009, Himalaya PublishingHouse.
- 27. Mathematics of Finance 2nd Edition Schaum's Outline Series Peter Zima, Robert Brows Tata McGraw-Hill Publishing CompanyLtd