

Optional Elective

AC – 24/05/2024
Item No. – 6.3 Sem. II (1a)



As Per NEP 2020

University of Mumbai

Syllabus for Basket of OE	
Board of Studies in Mathematics	
UG First Year Programme	
Semester	II
Title of Paper	Credits 2/ 4
I) Financial Mathematics II	2
From the Academic Year	2024-25

Name of the Course: Financial Mathematics - II

Sr. No.	Heading	Particulars
1	Description the course: Including but not limited to:	This course offers a comprehensive exploration of finance and statistical analysis. It covers essential topics such as shares, mutual funds, time series analysis, and index numbers. Students learn about shares and mutual funds, including concepts like face value, market value, and dividends, and how to calculate net income considering various factors. Additionally, they delve into time series analysis, where they explore trend estimation methods like Moving Average and Least Squares, and forecasting techniques using the Least Squares Method. The significance of index numbers in economic analysis is also emphasized, providing students with practical skills and knowledge applicable to real-world scenarios in finance and statistics.
2	Vertical:	OE
3	Type:	Theory
4	Credits:	2 credits (1 credit = 15 Hours for Theory or 30 Hours of Practical work in a semester)
5	Hours Allotted:	30 Hours
6	Marks Allotted:	50 Marks
7	Course Objectives (CO): (List the course objectives) This course takes a comprehensive look at important ideas in finance and statistical analysis. Students learn about the complexities of financial instruments like stocks and mutual funds, as well as the principles of time series analysis and index numbers, throughout this course. CO1: To offer a thorough understanding of shares and mutual funds, including their types, components and calculations. CO2: To learn the concepts of time series and index numbers, including trend estimation methods and forecasting techniques. CO3: To develop proficiency in calculating various index numbers and understanding their significance in economic analysis. CO4: To acquire skills in averaging prices through Systematic Investment Plan (SIP) and interpreting its implications in mutual fund investments.	
8	Course Outcomes (OC):	

	<p>After completion of the course, students will be able to.</p> <p>OC1: demonstrate a comprehensive understanding of financial instruments such as shares and mutual funds, enabling them to make informed investment decisions.</p> <p>OC2: calculate various index numbers, enabling them to measure price changes and cost of living accurately.</p> <p>OC3: apply statistical tools such as averaging prices through SIP in mutual fund investments, enhancing their practical understanding of financial markets.</p> <p>OC4: analyze time series data and estimating trends using appropriate statistical methods.</p> <p>OC5: develop the ability to forecast future trends using the Least Squares Method, enhancing their predictive capabilities.</p>
9	<p>Modules:-</p> <p>Module 1: Shares and Mutual Funds:</p> <ul style="list-style-type: none"> • Concepts of shares, face value, market value, dividend, equity shares preferential shares, bonus shares, Simple examples. • Mutual Funds, Simple problems on calculation 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 Plan (S.I.P)’. <p>Module 2: Time Series and Index Numbers</p> <ul style="list-style-type: none"> • Concept and Components of time series. Estimation of Trend using Moving Average Method & Least Squares Method (only Linear Trend). • Concept of Forecasting using Least Squares Method. • Concept and uses of Index Numbers. Simple and Composite Index Nos. (unweighted, weighted). • Laspeyre’s Price Index No., Paasche’s Price Index No. Fisher’s Price Index No., Dorbish-Bowley’s Index Number, Marshall and Edgeworth Index Number. • Cost of Living Index No., Real Income
10	<p>Text Books</p> <ol style="list-style-type: none"> 1. Fundamentals of Mathematical Statistics, 12th Edition, S. C. Gupta and V. K. Kapoor, Sultan Chand & Sons, 2020. 2. Statistics for Business and Economics, 11th Edition, David R. Anderson, Dennis J. Sweeney and Thomas A. Williams, Cengage Learning, 2011. 3. Introductory Statistics, 8th Edition, Prem S. Mann, John Wiley & Sons Inc., 2013.
11	<p>Reference Books</p> <ol style="list-style-type: none"> 1. A First Course in Statistics, 12th Edition, James McClave and Terry Sincich, Pearson Education Limited, 2018. 2. Introductory Statistics, Barbara Illowsky, Susan Dean and Laurel Chiappetta, OpenStax, 2013.
	<p><u>Scheme of the Examination</u></p>
	<p>The performance of the learners shall be evaluated into two parts.</p> <ul style="list-style-type: none"> • Internal Continuous Assessment of 20 marks for each paper. • Semester End Examination of 30 marks for each paper. • Separate head of passing is required for internal and semester end examination.

12	Internal Continuous Assessment: 40% Semester End Examination: 60%														
13	Continuous Evaluation through: Quizzes, Class Tests, presentations, projects, role play, creative writing, assignments etc. (at least 3) <table><tr><td>Sr. No.</td><td>Particulars</td><td>Marks</td></tr><tr><td>1</td><td>A class test of 10 marks is to be conducted during each semester in an Offline mode.</td><td>10</td></tr><tr><td>2</td><td>Project on any one topic related to the syllabus or a quiz (offline/online) on one of the modules.</td><td>05</td></tr><tr><td>3</td><td>Seminar/ group presentation on any one topic related to the syllabus.</td><td>05</td></tr></table> <p>Paper pattern of the Test (Offline Mode with One hour duration): Q1: Definitions/Fill in the blanks/ True or False with Justification. (04 Marks: 4 x 1). Q2: Attempt any 2 from 3 descriptive questions. (06 marks: 2 × 3)</p>			Sr. No.	Particulars	Marks	1	A class test of 10 marks is to be conducted during each semester in an Offline mode.	10	2	Project on any one topic related to the syllabus or a quiz (offline/online) on one of the modules.	05	3	Seminar/ group presentation on any one topic related to the syllabus.	05
Sr. No.	Particulars	Marks													
1	A class test of 10 marks is to be conducted during each semester in an Offline mode.	10													
2	Project on any one topic related to the syllabus or a quiz (offline/online) on one of the modules.	05													
3	Seminar/ group presentation on any one topic related to the syllabus.	05													
14	Format of Question Paper: The semester-end examination will be of 30 marks of one hour duration covering the entire syllabus of the semester. <table><tr><td colspan="4">Note: Attempt any TWO questions out of THREE.</td></tr><tr><td>Q.No.1</td><td>Module 1 and 2</td><td>Attempt any THREE out of FOUR. (Each question of 5 marks) (a) Question based on OC1/OC2 (b) Question based on OC3 (c) Question based on OC4 (d) Question based on OC5</td><td>15 Marks</td></tr><tr><td>Q.No.2</td><td>Module 1 and 2</td><td>Attempt any THREE out of FOUR. (Each question of 5 marks) (a) Question based on OC1/OC2 (b) Question based on OC3 (c) Question based on OC4 (d) Question based on OC5</td><td>15 Marks</td></tr></table>			Note: Attempt any TWO questions out of THREE.				Q.No.1	Module 1 and 2	Attempt any THREE out of FOUR . (Each question of 5 marks) (a) Question based on OC1/OC2 (b) Question based on OC3 (c) Question based on OC4 (d) Question based on OC5	15 Marks	Q.No.2	Module 1 and 2	Attempt any THREE out of FOUR . (Each question of 5 marks) (a) Question based on OC1/OC2 (b) Question based on OC3 (c) Question based on OC4 (d) Question based on OC5	15 Marks
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	Q.No.3	Module 1 and 2	Attempt any THREE out of FOUR . (Each question of 5 marks) (a) Question based on OC1/OC2 (b) Question based on OC3 (c) Question based on OC4 (d) Question based on OC5	15 Marks
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**Sign of the BOS
Chairman
Dr. Bhausaheb S Desale
The Chairman, Board of
Studies in Mathematics**

**Sign of the
Offg. Associate Dean
Dr. Madhav R. Rajwade
Faculty of Science &
Technology**

**Sign of the
Offg. Dean
Prof. Shivram S. Garje
Faculty of Science &
Technology**

As Per NEP 2020

University of Mumbai



Syllabus for Basket of OE/ Minor/AEC	
Board of Studies in Data Science	
UG First Year Programme	
Semester	II
Title of Paper	Credits 2/ 4
I. DS_Data Privacy and Security (Open Elective)[OE]	2
From the Academic Year	2024-2025

Sr.No.	Heading	Particulars
1	Description the course : Including but Not limited to:	This syllabus aimed to provide a comprehensive overview of data, its privacy and security. It covers various aspects of data privacy and security to minimize the risk associated with an information system.
2	Vertical :	Open Elective
3	Type :	Theory
4	Credits :	2 credits (1 credit = 15 Hours for Theory)
5	Hours Allotted :	30 Hours
6	Marks Allotted:	50 Marks
7	Course Objectives(CO):	CO 1.To learn concepts associated with data and data explosion. CO 2. To understand the data privacy and its components. CO 3. To learn types of data privacy attacks and laws associated. CO 4. To explore different Vulnerabilities with Software and data. CO 5. To learn strategies for Analysing Information Risk CO 6. To understand the use and applications of cyber security tools.
8	Course Outcomes (OC):	OC 1. Ability to identify sources and nature of data. OC 2. Knowledge of making a data privacy policy. OC 3. Ability to make and practise data protection strategies. OC 4. Acquire knowledge of vulnerabilities. OC 5. To manage the risks associated with data. OC 6. To deploy data security and protection strategy with cyber security tools.
9	Module 1:	Concept of Data explosion, Nature of data, Causes of data explosion, Big Data explosion. Demographics and Uniqueness of data and Data explosion. Components of Data Privacy: confidentiality, integrity and availability. Need of data privacy and its importance for business. Concept of Data linking and Data profiling. Data Privacy Attacks: Stolen Information Ransomware, Password Guessing, Recording Keystrokes, Phishing, Malware or Virus and Distributed Denial of Service (DDoS). Data Protection policies for the use, monitoring, and management of data. HIPPA (Health Insurance Portability and Accountability Act) components. DISHA (Digital Information Security in Healthcare Act) act.
	Module 2:	Data security: Definition and importance. Levels of Data security: hardware security, software security, and legal security. Understanding security policy: Organizational, system specific and issue specific.

	<p>Software Vulnerabilities and its impact on data.</p> <p>Understanding the role of Data Privacy and Security for any organization Cyber security Risk management: Risk identification, threat modelling and preventive strategies</p> <p>Process of FAIR analysis (Factor Analysis of Information Risk) Different cyber security tools.</p>	
10	<p>Text Books</p> <ol style="list-style-type: none"> 1. "Cyber Security and Data Privacy" by Krishan Kumar Goyal, Amit Garg and Saurabh Singhal. 2. "Cyber Security and Digital Privacy: A Universal Approach" by Gaurav K. Roy. 3. "DATA PRIVACY" by Ashwin Venkataramanan, Ashwin Shriram. 	
11	<p>Reference Books</p> <ol style="list-style-type: none"> 1. " Mastering Your Introduction to Cyber Security" by Dr. Michael C Redmond. 2. "Cybersecurity for Information Professionals: Concepts and Applications" by Hsia-Ching Chang , Suliman Hawamdeh 3. "Security and Data Storage Aspect in Cloud Computing" by Prachi S. Deshpande , Subhash C. Sharma , Sateesh K. Peddoju <p>Weblinks</p> <ol style="list-style-type: none"> 1. https://compliance-group.com/disha-and-hipaa-how-do-they-compare/ 2. https://dataprivacymanager.net/8-best-online-resources-to-learn-more-about-data-privacy-security/ 3. https://safety.google/privacy/privacy-controls/ 	
12	Internal Continuous Assessment: 40%	Semester End Examination: 60%
13	<p>Continuous Evaluation through:</p> <p>Class test of 1 of 15 marks Class test of 2 of 15 marks Average of the two: 15 marks</p> <p>Quizzes/ Presentations/ Assignments: 5 marks</p> <p>Total: 20 marks</p>	Semester End Examination of 30 marks
14	<p>Format of Question Paper: (Semester End Examination : 30 Marks. Duration:1 hour)</p> <p>Q1: Attempt any two (out of four) from Module 1 (15 marks) Q2: Attempt any two (out of four) from Module 2 (15 marks)</p>	

As Per NEP 2020

AC –
Item No. –

University of Mumbai



Syllabus for Basket of VES	
Board of Studies in Value Education	
UG First Year Programme	
Semester	II
Title of Paper	Credits 2
I) Environmental Management & Sustainable Development -II	
From the Academic Year	2024-25

**Name of the Course: Environmental Management
& Sustainable Development -II**

Sr. No.	Heading	Particulars
1	Description the course : Including but Not limited to :	<p>This introductory course explores the interconnectedness of our environment and the challenges it faces. Designed for students from all faculties, it equips you with a foundational understanding of:</p> <ul style="list-style-type: none"> Ecosystems and biodiversity: Explore the intricate web of life on Earth and the importance of species diversity. Human impact: Analyse how human activities affect natural resources, climate, and pollution. Sustainability: Discover principles for living in harmony with the environment and meeting our needs without compromising future generations. <p>Regardless of major, environmental awareness is crucial. This course empowers learner to:</p> <ul style="list-style-type: none"> Become an informed citizen: Make responsible choices and advocate for environmental protection. Understand complex environmental issues: Gain a holistic view of challenges like climate change and pollution. <p>Explore solutions and career paths: Discover potential careers in environmental management, conservation, or sustainable development.</p>
2	Vertical :	Open Elective
3	Type :	Theory / Practical
4	Credit:	2 credits / (1 credit = 15 Hours for Theory or 30 Hours of Practical work in a semester)
5	Hours Allotted :	30 Hours
6	Marks Allotted:	50 Marks
7	<p>Course Objectives:</p> <p>1. To create and disseminate knowledge to the students about environmental problems at local, regional and global scale.</p> <p>2. To introduce about ecosystems, biodiversity and to make aware for the need of</p>	

	<p>conservation.</p> <p>3. To sensitize students towards environmental concerns, issues, and impacts of human population.</p> <p>4. To prepare students for successful career in environmental departments, research institutes, industries, consultancy, and NGOs, etc.</p>
8	<p>Course Outcomes:</p> <p>1. Use principles of Environmental Science for explaining sustainable development and its related ethical concerns</p> <p>2. Display scientific perspective for issues confronting our present day environment.</p> <p>3. Analyze the national and global environmental issues relating air, water, soil, and land use, biodiversity, and pollution.</p> <p>4. Explain the Role of an individual in relation to human population and environmental pollution.</p> <p>5. Recognize the importance of collective efforts for environmental sustainability as reflected in various treaties, conventions and laws</p>
9	<p>Modules:-</p> <p>Unit I: Environmental Pollution and Health (8 lectures)</p> <p>Understanding pollution: Production processes and generation of wastes; Assimilative capacity of the environment; Definition of pollution; Point sources and non-point sources of pollution.</p> <p>Air pollution: Sources of air pollution; Primary and secondary pollutants; Criteria pollutants- carbon monoxide, lead, nitrogen oxides, ground-level ozone, particulate matter and Sulphur dioxide; Other important air pollutants- Volatile Organic compounds (VOCs), Peroxyacetyl Nitrate (PAN), Polycyclic aromatic hydrocarbons (PAHs) and Persistent organic pollutants (POPs); Indoor air pollution; Adverse health impacts of air pollutants; National Ambient Air Quality Standards.</p> <p>Water pollution: Sources of water pollution; River, lake and marine pollution, groundwater pollution; water quality parameters and standards; adverse health impacts of water pollution on human and aquatic life.</p> <p>Soil pollution and solid waste: Soil pollutants and their sources; Solid and hazardous waste; Impact on human health.</p> <p>Noise pollution: Definition of noise; Unit of measurement of noise pollution; Sources of noise pollution; Noise standards; adverse impacts of noise on human health.</p> <p>Thermal and Radioactive pollution: Sources and impact on human health and ecosystems.</p> <p>Unit II: Environmental Management (7 lectures)</p> <p>Introduction to environmental laws and regulation: Constitutional provisions- Article 48A, Article 51A (g) and other derived environmental rights; Introduction to environmental legislations on the forest, wildlife and pollution control.</p> <p>Environmental management system: ISO 14001</p> <p>Life cycle analysis; Cost-benefit analysis</p> <p>Pollution control and management; Waste Management- Concept of 3R (Reduce, Recycle and Reuse) and sustainability; Ecolabeling /Ecomark scheme. Introduction to Millennium Development Goals, Sustainable Development Goals, & Mission Life.</p>

	Unit III: Environmental Treaties and Conventions (8 lectures)
	<p>1) Major International Environmental Agreements: Stockholm Conference on Human Environment, 1972, Ramsar Convention on Wetlands, 1971, Montreal Protocol, 1987, Basel Convention (1989), Earth Summit at Rio de Janeiro, 1992, Kyoto Protocol, 1997, Earth Summit at Johannesburg, 2002.</p> <p>2) Major Indian Environmental Legislations: The Wild Life (Protection) Act, 1972; The Water (Prevention and Control of Pollution) Act, 1974; The Forest (Conservation) Act, 1980; The Air (Prevention and Control of Pollution) Act, 1981; The Environment (Protection) Act, 1986; The Biological Diversity Act, 2002</p>
	Unit IV: Case Studies and Field Survey (7 lectures)
	<p>The students are expected to be engaged in some of the following or similar identified activities:</p> <ul style="list-style-type: none"> • Discussion on one national and one international case study related to the environment and sustainable development. • Field visits to identify local/regional environmental issues, make observations including data collection and prepare a brief report. • One student one tree initiative. • Documentation of campus biodiversity. • Campus environmental management activities such as solid waste disposal, water management, and sewage treatment.
10	Text Books <ol style="list-style-type: none"> 1. Ahluwalia, V. K. (2015). Environmental Pollution, and Health. The Energy and Resources Institute (TERI). 2. Central Pollution Control Board Web page for various pollution standards. https://cpcb.nic.in/standards/ 3. Masters, G. M., & Ela, W. P. (2008). Introduction to environmental engineering and science (No. 60457). Englewood Cliffs, NJ: Prentice Hall. 4. Jørgensen, Sven Marques, Erik João Carlos and Nielsen, Søren Nors (2016) Integrated Environmental Management, A transdisciplinary Approach. CRC Press. 5. Barrow, C. J. (1999). Environmental management: Principles and practice. Routledge. 6. Theodore, M. K. and Theodore, Louis (2021) Introduction to Environmental Management, 2nd Edition. CRC Press. 7. Richard A. Marcantonio, Marc Lame (2022). Environmental Management: Concepts and Practical Skills. Cambridge University Press. 8. UNEP (2007) Multilateral Environmental Agreement Negotiator's Handbook, University of Joensuu, ISBN 978-952-458-992-5 9. Ministry of Environment, Forest and Climate Change (2019) A Handbook on International Environment Conventions & Programmes. https://moef.gov.in/wp-content/uploads/2020/02/convention-V-16-CURVE-web.pdf 10. Ministry of Environment, Forest and Climate Change (2019) A Handbook on International Environment Conventions & Programmes. https://moef.gov.in/wp-content/uploads/2020/02/convention-V-16-CURVE-web.pdf 11. India Code – Digital repository of all Central and State Acts: https://www.indiacode.nic.in/ 12. University Grants Commission, D.O.No.F. 14-5/2015(CPP-II) dated 2nd August 1 2019.

12	Internal Continuous Assessment: 40%	Semester End Examination : 60%
13	Continuous Evaluation through: Quizzes, Class Tests, presentation, project, role play, creative writing, Field Visits, Case Studies, assignments, One Student one tree initiative etc. (at least 4)	
14	Format of Question Paper: for the final examination For OE: External - 30 Marks (2 Credits) Internal - 20 Marks Question Paper Format for 30 Marks Format of Question Paper: 30 Marks per paper Semester End Theory Examination: 1. Duration - These examinations shall be of one hour and 30 minutes duration. 2. Theory question paper pattern: There shall be 04 questions each of 10 marks out of which students will attempt ANY THREE	

Signature:
Prof. Kavita Laghate
Chairman of Board of Studies in Value Education

Sem. – II

Syllabus
Bachelor of Banking & Insurance

Syllabus

Bachelor of Banking & Insurance

Major

Management Process and Organizational Behaviour (Mandatory)

Credits 4

Description of the course:

"Management Process and Organizational Behaviour" explores the principles and practices of effective management and human behavior within organizations. It covers topics such as planning, organizing, leading, and controlling, as well as individual and group dynamics, motivation, leadership, and organizational culture. The subject aims to provide insights into managerial decision-making, team dynamics, and strategies for enhancing organizational effectiveness and employee satisfaction.

Aims & Objectives:

1. To provide students with a comprehensive understanding of the management process in various organizational contexts.
2. To study individual and group behavior within organizations facilitating a deeper understanding of human behavior in the workplace
3. To develop students' managerial skills and competencies to achieve organizational goals.

Course outcomes:

1. It will enhance students' decision-making abilities by understanding the dynamics of organizational behavior
2. Students will gain an understanding of organizational culture
3. Students will develop the ability to adapt to organizational change and uncertainty, understanding how individual and group behavior influences organizational change processes and strategies.

Sr. No.	Modules	No. of Lectures
1	Introduction of Management	15
2	Introduction to Organizational Behavior	15
3	Motivation	15
4	Group Dynamics and Team building	15
Total		60

Sr. No.	Modules
1	Introduction of Management
	Evolution of management thought, Systems and contingency approach for understanding organizations, managerial processes, functions, skills and roles in an organization; Leadership: Concept, Nature, Importance, Attributes of a leader, developing leaders across the organization, Leadership Grid. Decision making: Concept, Nature, Importance, and Process. Types of decisions. Problems in decision making
2	Introduction to Organizational Behavior
	Definition, Importance, Scope, Fundamental Concepts of OB, Different models of OB - autocratic, custodial, supportive, collegial and SOBC. Personality & Attitudes: Meaning of personality, attitude - Development of personality – Attributes of personality- Transactional Analysis – Ego states – Johari window - Nature and dimensions of attitude – Developing the right attitude
3	Motivation
	Definition, Importance, Motives – Characteristics, Classification of motives - Primary & Secondary motives. Theories of Motivation - Maslow's Theory of need hierarchy - Herzberg's theory. Morale - Definition and relationship with productivity - Morale Indicators.
4	Group Dynamics and Team building

Concept of Group & Team. Theories of Group Formation - Formal and Informal Groups. Importance of Team building. Conflict Management: Definition. Traditional vis - à- vis Modern view of conflict – Types of conflict – Intrapersonal, Interpersonal, and Organizational. Constructive and Destructive conflict. Conflict management.

References:

- "Principles of Management" by P.C. Tripathi and P.N. Reddy, published by Tata McGraw-Hill Education
- "Management: Text and Cases" by VSP Rao and DN Tripathi, published by Excel Books.
- "Essentials of Management: An International and Leadership Perspective" by Harold Koontz, Heinz Weihrich, and Mark V. Cannice, published by Tata McGraw-Hill Education
- "Management: A Global and Entrepreneurial Perspective" by Hitt, Black, and Porter, published by Cengage Learning India

Fundamental Accounting -II (Mandatory)

Credits 2

Description of the course:

"Fundamental Accounting" provides a comprehensive understanding of advanced financial valuation techniques and securities redemption processes. It covers topics such as Valuation of Shares through various methods and Redemption of Preference Shares and Debentures.

Aims & Objectives:

1. Understand and apply the Maintainable Profit method, Super Profit Method, Capitalization method, and Annuity Method for valuing goodwill.
2. To teach about the methods and sources for redeeming debentures, including payment from capital or profits.
3. To make students understand the legal framework governing and accounting treatment for the Redemption of preference shares under the Companies Act.

Course outcomes:

1. Students will get familiarize with the characteristics and features of preference shares, including dividend preferences, voting rights, and redemption provisions.
2. Students will get familiarize with various methods used to determine the value of goodwill and shares.
3. Students will understand the legal provisions and accounting treatment pertaining to the redemption of Preference shares and Debentures.

Sr. No.	Modules	No. of Lectures
1	Valuation of Goodwill and Shares	15
2	Redemption of Preference shares and Debentures	15
Total		30

Sr. No.	Modules
1	Valuation of Goodwill and Shares <ul style="list-style-type: none">• Unit 1: Valuation of Goodwill Maintainable Profit method, Super Profit Method Capitalization method, Annuity Method• Unit 2: Valuation of Shares Intrinsic Value Method, Yield method and Fair Value Method
2	Redemption of preference shares and Debentures <ul style="list-style-type: none">• Unit 1: Redemption of preference shares - Company Law / Legal Provisions for redemption of preference shares in Companies Act Sources of redemption including divisible profits and proceeds of fresh issue of shares Premium on redemption from security premium and profits of company Capital Redemption Reserve Account - creation and use.• Unit 2: Redemption of debentures by payment from sources including out of capital and / or out of profits. Debenture redemption reserve and debenture redemption sinking fund excluding insurance policy. Redemption of debentures by conversion into new class of shares or debentures with options- including at par, premium and discount

References:

- Financial Accounting: Valuation of Shares, Goodwill and Other Assets" by V.K. Bhalla (Publisher: S. Chand & Company Ltd.)
- Valuation of Shares and Goodwill" by Arun Kumar and Rachana Sharma (Publisher: Bharat Law House Pvt. Ltd.)
- "Fundamentals of Accounting: Redemption of Preference Shares" by D.S. Rawat (Publisher:

Taxmann Publications Pvt. Ltd.)

- "Accounting for Management: Redemption of Shares" by Amresh Kumar (Publisher: PHI Learning Pvt. Ltd.

Forex (VSC)

Credits 2

Description of the course:

"Forex" explores the principles and practices of foreign exchange markets. It covers topics such as currency trading, exchange rate mechanisms, and risk management strategies, providing insights into the dynamics of global financial markets and the factors influencing currency fluctuations. The subject also examines the role of forex markets in international trade, investment, and monetary policy.

Aims & Objectives:

1. To provide students with a comprehensive understanding of the structure, functions, and participants of foreign exchange markets.
2. To develop students' skills in currency trading and risk management techniques.
3. To explore the role of forex markets in facilitating international trade.

Course outcomes:

1. Students will be prepared to understand with foreign exchange market structure, market dealings.
2. Students will Understand the functions and players in the foreign exchange market.
3. Students will Gain knowledge to manage the exchange exposures

Sr. No.	Modules	No. of Lectures
1	Introduction of International Monetary System	15
2	Foreign Exchange Market and Participants	15
Total		30

Sr. No.	Modules
1	Introduction of International Monetary System
	Unit 1: International Monetary Systems: Introduction to Forex, Currency Pair Types, Forex Currency Pairs, 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 Unit 2: An introduction to Exchange Rates: Foreign Bank Note Market, Spot Foreign Exchange Market Exchange Rate Quotations ,Direct & Indirect Rates, Cross Currency Rates , Spread & Spread %, Factors Affecting Exchange Rates
2	Foreign Exchange Market and Participants
	Unit 1: Foreign Exchange Markets: Introduction to Foreign Exchange Markets, Structure of Foreign Exchange Markets, Types of Transactions & Settlement Date, Exchange Rate Quotations & Arbitrage, Forward Quotations (Annualized Forward Margin) Unit 2: Forex Participants: Market and Market Participants, Foreign Exchange Management in India, Retail and Whole Sale Component of Indian Foreign Exchange Market, Role of FEDAI, FEMA and Regulatory Framework, Dealing Room Operations.

References:

- Foreign Exchange Management: Theory and Practice" by A. V. Rajwade, published by Tata McGraw-Hill Education
- The Handbook of Foreign Exchange Trading" by Jagdeep Singh Kalsi, published by Vision Books.
- Forex Trading Guide: Basics and Strategies" by S. Wade Hansen and Peter R. Bain, published by Tata McGraw-Hill Education
- Currency Trading and Intermarket Analysis: How to Profit from the Shifting Currents in Global Markets

Startups (VSC)

Credits 2

Description of the course:

"Startups" explores the entrepreneurial journey from idea conception to business establishment and growth. It covers topics such as business planning, funding strategies, market validation, and scalability, aiming to equip students with the knowledge and skills to navigate the challenges and opportunities of startup ventures effectively. The subject also emphasizes innovation, creativity, and adaptability in the dynamic startup ecosystem.

Aims & Objectives:

1. To introduce the students to the concept of Startups and Entrepreneurship.
2. To provide the knowledge of becoming an entrepreneur by identifying business opportunities and developing business plans.
3. To understand the concept of entrepreneurship and identify the dimensions and resources required to establish a start-up.

Course outcomes:

1. Students will be able to start his/ her own business by understanding the opportunities that are lying in front of them.
2. Students will learn how to make a business plan and how to approach funding agencies for getting their loans sanctioned.
3. Students will learn to identify the various sources of finance for a new venture and role of central and state government in promoting entrepreneurship

Sr. No.	Modules	No. of Lectures
1	Startup Ecosystem and Legal Environment	15
2	Survival, Growth and Exit Strategies	15
Total		30

Sr. No.	Modules
1	Startup Ecosystem and Legal Environment A) Unit I: Start-up opportunities: The New Industrial Revolution – The Big Idea- Generate Ideas with Brainstorming- Business Start-up - Ideation- Venture Choices - The Rise of the startup economy - The Six Forces of Change- The Start-up Equation - The Entrepreneurial Ecosystem – Entrepreneurship in India. Government Initiatives. B) Unit II: Startup Capital Requirements and Legal Environment: Identifying Startup Capital Resource requirements - estimating Startup cash requirements - Develop financial assumptions- Constructing a Process Map - Positioning the venture in the value chain - Launch strategy to reduce risks- Startup financing metrics - The Legal Environment- Approval for New Ventures- Taxes or duties payable for new ventures.
2	Survival, Growth and Exit Strategies A) Unit I: Start-up Survival and Growth: Stages of growth in a new venture- Growing with the market - Growing within the industry- Venture life patterns- Reasons for new venture failures- Scaling Ventures – preparing for change - Leadership succession. Support for growth and sustainability of the venture. B) Unit II: Planning for Harvest and Exit: Dealing with Failure: Bankruptcy, Exit Strategies- Selling the business - Cashing out but staying in-being acquired- Going Public (IPO) – Liquidation.

References:

- "Startup India: Insights for Aspiring Entrepreneurs" by Dr. Prashant Prabhu (Publisher: Vision India Publications)
- "The Ultimate Guide to Startups in India" by Anand Srinivasan (Publisher: Notion Press)
- "Entrepreneurship Management: Concepts, Theory and Practice" by Sadhana Dash, published by PHI Learning Pvt. Ltd.
- "Entrepreneurship Development: A Handbook for Entrepreneurs" by S. S. Khanka, published by S. Chand Publishing

Insurance Broking and Advisory (SEC)

Credits 2

Description of the course:

"Insurance Broking and Advisory" delves into the principles and practices of insurance intermediation. It covers topics such as risk assessment, policy selection, claims management, and regulatory compliance, equipping students with the knowledge and skills to provide expert insurance advice and solutions to clients. The subject also explores the evolving role of insurance brokers in the insurance market and the importance of ethical conduct and professionalism in insurance advisory services

Aims & Objectives:

1. To provide students with a comprehensive understanding of insurance principles, products, and markets.
2. To develop students' skills in insurance broking and advisory services.
3. To ensure students are familiar with regulatory requirements governing insurance broking.

Course outcomes:

1. Students will can find a policy that best suits your needs for a reasonable price.
2. Students will understand client's insurance needs and provide ethical and professional advice
3. Students will Understand the working and functioning of the Insurance Sector.

Sr. No.	Modules	No. of Lectures
1	Insurance Brokerage Essentials: Understanding Policies, Ethics, and Regulations	15
2	Brokerage Client Management and Insurance Advisory Practices	15
Total		30

Sr. No.	Modules
1	Insurance Brokerage Essentials: Understanding Policies, Ethics, and Regulations
	<ul style="list-style-type: none">• Definition and importance of insurance, Life insurance vs. general insurance, Different types of insurance policies (term, whole life, health, property, etc.)• Functions of Direct / Composite / Reinsurance Brokers.• Registration and Licensing of Brokers: eligibility and qualifications of person, manpower and infrastructure requirements.• Requirement of Capital for Direct broker/Composite Broker / Reinsurance Broker a. Forms of capital to be brought in Equity /Assets/Cash• Code of Conduct or Professional Ethics.• Remunerations of Brokers in various lines of Insurance Business: General Insurance, Life Insurance, Pension, Annuity, Group Insurance, etc.• Professional Indemnity Insurance for Brokers
2	Brokerage Client Management and Insurance Advisory Practices
	<ul style="list-style-type: none">• Responsibility of Broker to the insured - Understanding of client's requirement – nature of business and Risk Management of client, Preparation of Insurance Slip, Premium Collection, assistance in claims and preparation of claim documentation.• Responsibility of Brokers to the Insurance Company in Selection of Risks, Presentation of Products, Remittance of Premium, assistance in Claim Settlement and Consumer Grievances.• Insurance Advisory Process - Client needs analysis and risk assessment, Product selection and recommendation

References:

- Insurance Broking Practice and Procedures" by Dr. M. N. Mishra (Publisher: Taxmann Publications Pvt. Ltd.)
- Principles and Practice of Insurance Broking" by Sunita Sharma and Lallan Prasad (Publisher: Sultan Chand & Sons)
- Insurance Broking in India: Challenges and Opportunities" by Dr. K. C. Mishra and Dr. J. K. Pandey (Publisher: New Century Publications)
- Insurance Broking in India: Regulations, Processes, and Practices" by Raj Kumar (Publisher: Bharat Law House Pvt. Ltd.)

***B.Com. (Banking & Insurance) As Per NEP
with effect from the Academic Year 2024-2025***

Scheme of Evaluation

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 Wise End Examination component carrying 60% marks. The allocation of marks for the Internal Assessment and Semester End Examinations will be as shown below: -

(Internal Assessment- Courses with /without Practical Courses)

Credit: 02 (Total 50 Marks)

Internal = 20 Marks

External = 30 Marks

A. Internal Assessment: 40 % (20 Marks)

B. The Internal Assessment should be conducted after completing 50% of syllabus of the course/s

Sr. No.	Particular	Marks
1	One class test (10 Marks) (Mandatory) (Duration: 30Mnts.)	
	Match the Column/ True or False/Fill in the Blanks/ Multiple Choice Questions (Maximum any Two component of the above) (<i>½ Mark each</i>)	05 Marks
	Answer in One or Two Lines (Concept based Questions) (<i>01 Mark each</i>) (Attempt Any five of the eight)	05 Marks
2	All recorded activities to be spread across semester Refer to ANNEXTURE: A	10 Marks

(Internal Assessment- Courses with / without Practical Courses)

Credit: 04 (Total 100 Marks)

Internal= 40 Marks

External =60 Marks

A. Internal Assessment: 40 % (40 Marks)

B. The Internal Assessment should be conducted after completing 50% of Syllabus of the course

Sr. No.	Particular	Marks
1	One class test (20 Marks) (Mandatory) (Duration: 45 Mins.)	
	Match the Column/ True or False/Fill in the Blanks/ Multiple Choice Questions (Maximum any Two component of the above) (<i>1/2 Mark each</i>)	05 Marks
	Answer in One or Two Lines (Concept based Questions) (Attempt Any five of the eight) (<i>01 Mark each</i>)	05 Marks
	Answer in Brief (Attempt Any Two of the Four) (<i>05 Marks each</i>)	10 Marks
2	All recorded activities to be spread across semester Refer to ANNEXTURE: A	20 Marks

ANNEXTURE: A

Individual faculty member shall have the flexibility to design the continuous assessment for each course/s in a manner so as to evaluate students' capabilities across knowledge, skills and attitudes. Internal Assessment may be undertaken through any or combination of the methods stated below after obtaining due permission of Principal and remain same across that particular course and semester. Introduction of multiple activates among groups of students in same class may be encouraged for better exposure:

- Essays / Tutorials
- Home assignments
- Library notes based on published research papers
- Report writings
- Practical Projects/ Practical activities /Group projects
- Reflective Practical assignments / Industry work / Field work
- Drawing Portfolios
- Oral examination
- Student's Seminar / Workshop / Exhibition
- Reviews / PPT presentation
- Problem solving Exercises
- Laboratory/Library Work
- Book reviews
- Case Study analysis
- Podcast/Blog writing /Video making e.g., Tips to become successful investor/satisfied customer, company profile, successful entrepreneur etc.

Question Paper Pattern (Practical Courses)

Credit: 02 (Total 50 Marks)

External = 30 Marks

The Semester End Assessment should be conducted after completing 100% of syllabus of the course/s

Duration: 1 Hr.

All questions shall carry equal marks with internal choice within the question. Student has to attempt any two questions out of three. Question may be subdivided into sub-questions a, b, c... and the allocation of marks depends on the weightage of the topic.

The question papers shall be framed so as to ensure that no part of the syllabus is left out of study by a student.

The question paper shall be balanced in respect of various topics outlined in the syllabus.

Question No	Particular	Marks
Q-1	Practical Question (With internal options and 15 marks may be divided accordingly)	15 Marks
Q-2	Practical Question (With internal options and 15 marks may be divided accordingly)	15 Marks
Q-3	Short/Medium answer type question	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)

Credit: 02 (Total 50 Marks)

External = 30 Marks

The Semester End Assessment should be conducted after completing 100% of Syllabus of the course/s

Duration: 1 Hr.

All questions shall carry equal marks with internal choice within the question. Student has to attempt any two questions out of three. Question may be subdivided into sub-questions a, b, c... and the allocation of marks depends on the weightage of the topic.

The question papers shall be framed so as to ensure that no part of the syllabus is left out of study by a student.

The question paper shall be balanced in respect of various topics outlined in the syllabus.

Question No.	Particulars	Marks
Q-1	Theory Question	15 Marks
Q-2	Theory Question	15 Marks
Q-3	Case Study Analysis/ Short Notes	15 Marks

Note:

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

Question Paper Pattern (Practical Courses)

Credit: 04 (Total 100 Marks)

External =60 Marks

The Semester End Assessment should be conducted after completing 100% of syllabus of the course/s

Duration: 2 Hrs.

All questions shall carry equal marks with internal choice within the question. Student has to attempt any four questions out of six Question may be subdivided into sub-questions a, b, c... and the allocation of marks depends on the weightage of the topic.

The question papers shall be framed so as to ensure that no part of the syllabus is left out of study by a student.

The question paper shall be balanced in respect of various topics outlined in the syllabus.

Question No	Particulars	Marks
Q-1	Practical Questions	15 Marks
Q-2	Practical Questions	15 Marks
Q-3	Practical Questions	15 Marks
Q-4	Practical Questions	15 Marks
Q-5	Case Study Analysis/ Short Notes	15 Marks
Q-6	Theory questions	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)

Credit: 02 (Total 50 Marks)

External =60 Marks

The Semester End Assessment should be conducted after completing 100% of syllabus of the course/s.

Duration: 2 Hrs.

All questions shall carry equal marks with internal choice within the question. Student has to attempt any four questions out of six. Question may be subdivided into sub-questions a, b, c... and the allocation of marks depends on the weightage of the topic.

The question papers shall be framed so as to ensure that no part of the syllabus is left out of study by a student.

The question paper shall be balanced in respect of various topics outlined in the syllabus.

Question No	Particular	Marks
Q-1	Practical Questions	15 Marks
Q-2	Practical Questions	15 Marks
Q-3	Practical Questions	15 Marks
Q-4	Practical Questions	15 Marks
Q-5	Case Study Analysis/ Short Notes	15 Marks
Q-6	Theory questions	15 Marks

Note:

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

Guidelines for Case Study Analysis

1. Use the representation of real situations; avoid presenting situations that do not exist/ are not plausible in real life
2. Make sure that the description of the case is as clear and specific as possible
3. Make sure there is sufficient information on the content and the context of the case ask students interpretative and application questions
4. Questions need to be devised to assess the interpretation and application of knowledge, comprehension skills, and critical thinking skills
5. Devise clear and unambiguous questions to limit student confusion and time spent interpreting the question like suggest suitable title, offers a summary, explaining the scenario in detail, Problem/ issue presented in the scenario, suggest Solution/chosen course of action etc.
6. Maximum words for case study (Approx. 500-700 words) and followed by number of questions will depend on marks (3/4 marks each). Necessary precaution is to be taken for avoiding plagiarism

Passing Standard

Credit: 02 (Total 50 Marks)

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., 08 out of 20) in the Internal Assessment and 40% marks in Semester End Examination (i.e., 12 Out of 30) 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 individually in the Internal Assessment as well as Semester End Examination.

Credit: 04 (Total 100 Marks)

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., 16 out of 40) in the Internal Assessment and 40% marks in Semester End Examination (i.e., 24 Out of 60) 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 individually in the Internal Assessment as well as Semester End Examination.

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Letter Grades and Grade Points:

Semester GPA/ Programme CGPA Semester/ Programme	% of Marks	Alpha-Sign/ Letter Grade Result	Grading Point
9.00 - 10.00	90.0 - 100	O (Outstanding)	10
8.00 - < 9.00	80.0 - < 90.0	A+ (Excellent)	9
7.00 - < 8.00	70.0 - < 80.0	A (Very Good)	8
6.00 - < 7.00	60.0 - < 70.0	B+ (Good)	7
5.50 - < 6.00	55.0 - < 60.0	B (Above Average)	6
5.00 - < 5.50	50.0 - < 55.0	C (Average)	5
4.00 - < 5.00	40.0 - < 50.0	P (Pass)	4
Below 4.00	Below 40.0	F (Fail)	0
Ab (Absent)	-	Ab (Absent)	0

Justification for B.Com. (Banking & Insurance)

1.	Necessity for starting the course:	NEP 2020
2.	Whether the UGC has recommended the course:	Yes
3.	Whether all the courses have commenced from the academic year 2023-24	Yes
4.	The courses started by the University are self-financed, whether adequate number of eligible permanent faculties are available?	Unaided Yes
5.	To give details regarding the duration of the Course and is it possible to compress the course?	4 Years Course and Cannot be compressed
6.	The intake capacity of each course and no. of admissions given in the current academic year:	60
7.	Opportunities of Employability / Employment available after undertaking these courses:	Insurance & Risk Manager, Investment Banking Associate, Bank Probationary Officer, Startups, Self -employment

**Sign of Chairman
Dr. Sunil Karve
Chairman of Banking &
Insurance and
Investment
Management**

**Sign of the
Offg. Associate Dean
Dr. Ravikant
Balkrishna Sangurde
Faculty of Commerce**

**Sign of the
Offg. Associate Dean
Prin. Kishori Bhagat
Faculty of Management**

**Sign of offg. Dean
Prof. Kavita Laghate
Faculty of Commerce &
Mangement**

AC – 20/04/2024
Item No. – 7.8 Sem. II (5a)

As Per NEP 2020

University of Mumbai



Syllabus for Basket of Minor	
Ad- hoc Board of Studies in B. Com. (Management Studies)	
UG First Year Programme	
Semester	II
Title of Paper	Credits 2/ 4
Industry and Service Management I (Basics of I & S)	2
From the Academic Year	2024-25

Sr. No.	Heading	Particulars
1	Description the course: Including but not limited to:	Management is not only an essence in all fields but it is a prevalent tool in the hands of corporates to governments. From planning to controlling and from budgeting to reporting, all managerial elements are the most essential parts of daily life. So the learners need to know about all aspects from rural development to creating artificial intelligence. They will understand how to develop India, one of the fifth most powerful economies in the world. It is expected that the learners should learn how to develop our economy and management for the future generation from these managerial facets.
2	Vertical :	Major/ Minor /Open Elective /Skill Enhancement / Ability Enhancement/Indian Knowledge System (Choose By √)
3	Type :	Theory / Practical
4	Credit:	2 credits
5	Hours Allotted :	30 Hours
6	Marks Allotted:	50 Marks
7	Course Objectives: <ol style="list-style-type: none"> 1. Differentiate between different types of industries and their defining characteristics 2. Apply industry analysis frameworks to assess competitive landscapes 3. Evaluate the impact of various factors on industry performance and service delivery 4. Design and analyze service models for optimal customer experience. 	

8	Course Outcomes: <ol style="list-style-type: none"> 1. Learners should Differentiate between various industry types and their characteristics 2. Identify the key factors influencing industry performance and competition 3. Understand the core principles of service management and customer experience 4. Analyse the challenges and opportunities unique to service businesses
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9	Modules: -
	Module 1: Basics of Industry Management
	<ol style="list-style-type: none"> a) Concept of Industry Management, Characteristics of IM, Types, Pros and Cons of Industry Management b) Industry Analysis: Framework of Porter's Five Forces, Industry Life Cycle, Technological advancement, Government regulations
	Module 2: Basics of Service Management
	<ol style="list-style-type: none"> a) Concept of service and service Management, characteristics of services, importance of service industry b) Scope and Classification of services - Specialized services, Customer services and Industrial services, Reasons for growth of service industry in India.
10	Text Books: <ul style="list-style-type: none"> • <i>Service Sector in India - recent policy initiative a New century publication 2008</i> • <i>A. Vijaykumar Service Sector management - An Indian perspective - Bhattacharjee, Jaico publishing House 2011.</i>

	Reference Books: <ul style="list-style-type: none"> • Industry Analysis by Michael E. Porter • Operations Management by Roberta F. Shang and Kenneth S. Meizer • Competitive Strategy by Michael E. Porter • Good Strategy Bad Strategy by Richard Rumelt • <i>Service marketing - Temani V. K. Prism Publication</i> • <i>Management of Service Sector - Bhatia B. S. VP Publication</i>
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12	Internal Continuous Assessment: 40%	External, Semester End Examination Individual Passing in Internal and External Examination : 60%
13	Continuous Evaluation through: Quizzes, Class Tests, presentation, project, role play, creative writing, assignment etc.(at least 3)	
14	Format of Question Paper: for the final examination External Paper Pattern (30 Marks) Q1. Case Study Analysis 10 Marks Q2. Answer the following (Any One) 10 marks A Or B Q3. Answer the following (Any One) 10 Marks A Or B	

Sign of the BOS
Chairman
Prof. Dr. Kanchan
Fulmali
BOS in BMS

Sign of the
Offg. Associate Dean
Dr. Ravikant Balkrishna
Sangurde
Faculty of Commerce

Sign of the
Offg. Associate Dean
Prin. Kishori Bhagat
Faculty of
Management

Sign of the
Offg. Dean
Prof. Kavita Laghate
Faculty of Commerce
& Management