

संदर्भ क्र. : शिवाजी वि./अमं /148

दिनांक:- २८/ ०२/ २०२४

प्रति,

मा. संचालक,

दूरशिक्षण व ऑनलाईन शिक्षण केंद्र,
शिवाजी विद्यापीठ, कोल्हापूर

मा.प्राचार्य/संचालक,

सर्व संलग्नित महाविद्यालये/मान्यताप्राप्त संस्था,
शिवाजी विद्यापीठ, कोल्हापूर

विषय :-दूरशिक्षण व ऑनलाईन शिक्षण केंद्राकडें ऑनलाईन मोडद्वारे सुरु असलेल्या
एम.बी.ए.(ऑनलाईन) या पाठयक्रमाच्या अभ्यासक्रमातील नियमावली सुधारणेबाबत

संदर्भ :- SU/BOS/Com & Mamt./0067 Date 04/04/2022 रोजीचे पत्र

महोदय/महोदया,

उपरोक्त विषय संदर्भानुसार आपणास कळविण्यात येते की, विद्यापीठ अधिकार मंडळाच्या निर्णयानुसार शैक्षणिक वर्ष 2021-22 पासून दूरशिक्षण केंद्रांतर्गत ऑनलाईन एम.बी.ए. हा अभ्यासक्रम ऑनलाईन मोडद्वारे सुरु करणेत आला. तसेच अधिकार मंडळाच्या निर्णयानुसार SU/BOS/Com & Mamt./0067 Date 04/04/2022 रोजीच्या पत्रानुसार सदरचा अभ्यासक्रम लागू करण्यात आला आहे.

दूरशिक्षण व ऑनलाईन शिक्षण केंद्रांतर्गत ऑनलाईन एम.बी.ए. अभ्यासक्रमाकरीता विद्यार्थ्यांची प्रवेश परीक्षा, यु.जी.सी. अथवा ए.आय.सी.टी.ई मार्फत प्रवेश परीक्षेस अनुसरून 4 सप्टेंबर, 2020 चे राजपत्र तसेच शैक्षणिक वर्ष, 2023-24 करिता असणा-या प्रवेशाबाबतच्या मार्गदर्शक सूचना, प्रश्नपत्रिका स्वरूप, प्रवेशाची पात्रता इत्यादी बाबींचा विचार करून विद्यापीठ अधिकार मंडळाने घेतलेल्या निर्णयानुसार एम.बी.ए. ऑनलाईन अभ्यासक्रम व त्याच्या नियमावलीत दुरुस्ती करण्यात आली आहे. (सोबत :सुधारित अभ्यासक्रम व नियमावली जोडली आहे.)

उपरोक्त बाब सर्व संबंधित शिक्षक व विद्यार्थी यांच्या निदर्शनास आणावे. तसेच सुधारित अभ्यासक्रम व नियमावली विद्यापीठ संकेतस्थळावर www.unishivaji.ac.in (Online Syllabus) ठेवण्यात आली आहे.

कळावे,

आपला विश्वासू
(~~डॉ. एस. एम. कुबल~~)
उपकुलसचिव

सोबत : वरील प्रमाणे

प्रत :

1. मा. अधिष्ठाता, वाणिज्य व व्यवस्थापन विद्याशाखा, शिवाजी विद्यापीठ, कोल्हापूर
2. मा. संचालक, परीक्षा व मूल्यमापन मंडळ
3. परीक्षक नियुक्ती अ व ब विभाग
4. इतर परीक्षा 1 विभाग
5. आय.टी. सेल

माहितीसाठी व पुढील योग्य त्या कार्यवाहीसाठी



Estd:1962

NAAC “A+ +” Grade with CGPA 3.52

SHIVAJI UNIVERSITY, KOLHAPUR
CENTRE FOR DISTANCE AND ONLINE EDUCATION (CDOE)

Syllabus For

Master of Business Administration (MBA)

Through Online Mode

Part – I (Semester- I & II)

Under the Faculty of Commerce and Management

(To be implemented from 2021-22)

SHIVAJI UNIVERSITY, KOLHAPUR
CENTRE FOR DISTANCE AND ONLINE EDUCATION (CDOE)
MASTER OF BUSINESS ADMINISTRATION (MBA) PROGRAMME
Through Online Mode
(AICTE Approved)
(Introduced from the Academic Year 2021-2022 onwards)

Shivaji University, Kolhapur is one of the oldest, premier, NAAC 'A++' Reaccredited, State University. Centre for Distance and Online Education is offering AICTE Approved Master of Business Administration (MBA) programme through Online Mode from the academic year 2021-2022 under the Faculty of Commerce and Management. It has one thousand intake capacities and the programme is designed by considering the achievements of the following aims:

1. Aims of the Programme:

1. To strengthen conceptual base of executives.
2. To help them improve decision making ability, creative and logical thinking.
3. To improve analytical ability, problem solving skills and judgmental ability.

2. Duration of the Programme:

- The duration of the programme is two years divided into four semesters.
- There will be semester end examination in the winter and summer session for all the semesters, besides that in each semester, a candidate has to complete continuous internal evaluation as prescribed by the Centre for Distance and Online Education.

3. Eligibility Criteria for Admission:

A Learner residing within or outside India may enroll for M.B.A. through Online Mode programme by fulfilling following norms:

- Graduate of minimum 03 years duration from any faculty from any recognized University with minimum 50% marks for General Category and 45% for reserved categories. (for reserve category, candidate has to produce relevant documents that are applicable to concern Reservation Policy from time to time.)
- If Candidate obtained Graduation from any Foreign Institute, then Learner has to produce 'Equivalence Certificate issued by the Association of Indian Universities' for admissions.

4. Entrance Test:

- To get admission to Online MBA Programme; **there will not be any Entrance Exam.** Learners may directly apply for Admission whenever notified by Shivaji University, Kolhapur.

5. Fee Structure

- **Fee Structure for MBA through Online Mode Programme**

Learners have to pay the prescribed fees through Internet Banking, Credit Card/ Debit Card (RuPay/Visa/MasterCard/Maestro), Internet Banking, IMPS, Cash Cards/ Mobile Wallets (additional service charges, as per rules, shall be applicable in addition to the application form processing fees). This fee is non- refundable and non-transferable under any circumstances.

For Learners from India	₹ 1,20,000 /- (Excluding Examination and Other Fees) (For 4 Semesters)
For Foreign Learners	US \$ 1760 (Excluding Examination and Other Fees) (For 4 Semesters)

6. Documents Required for the Admission

❖ For Indian Learners

- Colour Scan Copy of SSC, HSC and Graduation mark sheets.
- Caste Certificate (If applicable).
- Recent passport size photograph Scan copy and Scan signature of the student.
- Any Govt. ID Proof such as Aadhaar Card, PAN Card, Passport etc.

❖ For Foreign Learners

If Learner obtained Graduation from any Foreign Institute, then he / she has to produce 'Equivalence Certificate issued by the Association of Indian Universities' for admissions.

7. Pattern of Examination:

Examination of each course will be divided as 20 Marks for Internal Evaluation and 80 Marks for Semester-End-Examination.

1. Internal Evaluation (of 20 Marks) for each Course will consists of;

a. For Semester-I and II:

Home Assignments to be hand written by Learner and to be uploaded on LMS.

b. For Semester- III and IV:

Uploading the Recorded Video on Case Presentation on LMS.

2. Semester End Evaluation (of 80 Marks) for each Course will consists of;

Nature of Question paper and Scheme of marking for all courses are as follows:

1	Nature of Examination	Proctored Online Examination through LMS
2	Nature of Questions	Multiple Choice Questions (MCQs)
3	Number of Questions	80 Multiple Choice Questions (MCQs)
4	Marks for Each Question	01 Mark
5	Marking Scheme	01 Mark for Every Correct Answer. No Negative Marking
6	Specific Nature of Questions	Multiple Choice Questions (MCQs) be asked in the form of- • Case Study followed by MCQs (Long Case followed by 05 MCQs) • Caselet followed by 01 MCQ
7	Difficulty Level	Question Paper must have – • 30 MCQs- Easy Level-Covering Basic Conceptions • 30 MCQs- Moderate Level- Covering Quick Decision-Making abilities. • 20 MCQs- Hard Level- Covering Analytical Thinking and its Applications
8	Time Duration	03 Hours (i.e., 180 Minutes)

8. Standard of Passing

1. Standard of Passing:

1. There will be separate head of passing for internal evaluation and Semester-End-Examination. Such internal evaluation is of the 20 Marks and learner required to earn at least 10 Marks for passing of one course and there are 80 Marks for Semester-End-Examination and learner has to earn at least 40 Marks for one course, that means 50% Marks learner has to earn for passing under each head.
2. No Class / Grade will be awarded to any part of examination. It will be awarded in aggregate; after successfully completion of all the courses.

2. Passing Rules:

1. For admission to MBA Part-II, a Learner has to clear at least 11 courses of Sem-I and II all together.
2. If a Learner fails in any no. of Courses of Sem.-I; shall be allowed to proceed to Sem.-II. Similarly, if a Learner fails in any no. of Courses of Sem.-III; shall be allowed to proceed to Sem.-IV.
3. Learners have to complete MBA Programme within 2+4 years from the date of admission. If Learners fail to complete the programme within the stipulated period, then their registration to the said programme stand cancel.

9. Program Outcomes:

1. Recognize the functioning of business opportunities involvement of business enterprises and exploring the entrepreneurial opportunities.
2. Develop incubation center and entrepreneurship development center for students who intent to take up start up or grow existing business.
3. Develop skills on analyzing the business data application of relevant analysis and problem solving.
4. Demonstrate a global outlook with the ability to identify aspects of the global business and cross-cultural understanding.
5. Identify the contemporary social problems, exploring the opportunities for social entrepreneurship, designing business solutions and demonstrate ethical standards in organizational decision making.
6. Develop effective and oral communication especially in business applications, with the use of appropriate technology.
7. Collaborate and lead teams across organizational boundaries and demonstrate leadership qualities, maximize the uses of diverse skill of team members in the related context.

10. Syllabus of Master of Business Administration through Online Mode:

The entire MBA through Online Mode programme is of 2900 Marks.

Each paper is of 100 marks. Project Viva Voce is of 200 Marks.

MBA Part-I Semester-I

Paper No.	Course Code	Course Titles	Course credits	Internal Evaluation	University Evaluation	Total Marks
1		Management Philosophy	4	20	80	100
2		Management Accounting	4	20	80	100
3		Business Statistics and Analytics for Decision Making	4	20	80	100
4		Managerial Economics	4	20	80	100
5		Computer applications for business	4	20	80	100
6		Managerial Skills for Effectiveness	4	20	80	100
7		Organizational Behavior	4	20	80	100
		Total	28	140	560	700

MBA Part-I Semester-II

Paper No.	Course Code	Course Titles	Course credits	Internal Evaluation	University Evaluation	Total Marks
8		Marketing Management	4	20	80	100
9		Financial Management	4	20	80	100
10		Human Resource Management	4	20	80	100
11		Operations Management	4	20	80	100
12		Legal and Business Environment	4	20	80	100
13		Research Methodology	4	20	80	100
14		Strategic Management	4	20	80	100
		Total	28	140	560	700

MBA Part-II Semester-III

Paper No.	Course Code	Course Titles	Course credits	Internal Evaluation	University Evaluation	Total Marks
15		Chh. Shivaji Maharaj -The Management Guru	4	20	80	100
16		Project Report and Viva	8	100	100	200
17		Elective I– Paper I	4	20	80	100
28		Elective I– Paper II	4	20	80	100
19		Elective I– Paper III	4	20	80	100
20		Elective II- Paper I	4	20	80	100
21		Elective II- Paper II	4	20	80	100
22		Elective II- Paper II	4	20	80	100
		Total	36	240	660	900

MBA Part-II Semester-IV

Paper No.	Course Code	Course Titles	Course credits	Internal Evaluation	University Evaluation	Total Marks
23		Elective I- Paper IV	4	20	80	100
24		Elective I- Paper V	4	20	80	100
25		Elective I- Paper VI	4	20	80	100
26		Elective II- Paper IV	4	20	80	100
27		Elective II- Paper V	4	20	80	100
28		Elective II- Paper VI	4	20	80	100
		Total	24	120	480	600

***27courses of 100 Marks each and 1 course of Project Viva Voce of 200 Marks**

-Grand Total 2900 Marks. Each course is of 4credits. Total programme is of 116 credits.

* Candidates are required to select any Two Electives (Elective I & Elective II) from the lists given below for the two courses separately.

Each elective has 6 papers which are included in–

(i) Semester- III

- Elective-I (Paper I, II and III)
- Elective-II (Paper I, II and III)

(ii) Semester- IV

- Elective-I (Paper IV, V and VI)
- Elective II (Paper IV, V and VI)

Electives:

- | | |
|---------------------------------------|---------------------------|
| 1. Marketing Management | 6. Entrepreneurship |
| 2. Financial Management | 7. Business Analytics |
| 3. Human Resource Management | 8. Hospitality Management |
| 4. Production & Operations Management | 9. Health Care Management |
| 5. International Business | |

Project Work:

The students have to undergo practical training of 50 days in any manufacturing or service organization and they have to submit their project report up to the fourth semester. The project work must have a Certification from the organization.

List of Elective Courses:

Courses	Elective –1 Marketing Management	Elective – 2 Financial Management	Elective – 3 Human Resource Management	Elective – 4 Production and Operations Management	Elective -5 International Business	Elective-6 Entrepreneurship	Elective-7 Business Analytics	Elective-8 Hospitality Management	Elective-9 Health Care Management
Semester – III Paper-I	Sales and Distribution Management	Indian Financial System	Human Resource Planning and Procurement	Operations Management Strategy	International Business Environment	Project Planning and Implementation	Business Data Management	Fundamentals of Hospitality Management	Fundamentals of Hospital Administrations
Semester – III Paper-II	Integrated Marketing Communication	Financial Decision Analysis	Human Resource Development	Production Planning and Control	Export and Import Policy	Startups and New Venture	Business Analytics in Management	Hotel Management	Health Care Service Management
Semester – III Paper-III	Consumer Behaviour	Project Appraisal and Finance	Compensation Management	Materials and Inventory Management	Cross Cultural Management	Institutional Support and Venture Funding	Data Visualization for Managers	Tourism Management	Medico Legal Environment in Healthcare
Semester – IV Paper-IV	Service Marketing And Retail Marketing	Investment Management and Portfolio Analysis	Strategic HRM and International Perspectives	Supply Chain Management	Issues in International Business	Family Business Management	Cloud Computing and Virtualization	Travel Agency and Tour Operations Management	Facility Management
Semester – IV Paper-V	Digital Marketing	Behavioural Finance	Industrial Relations and Labour Laws	Global Operations and Logistics	International Marketing	Venture Valuation and Accounting	Business Analytics using R	Customer Relationship Management	Healthcare Marketing
Semester – IV Paper-VI	Contemporary Issues in Marketing	International Finance	Organizational Change and Organizational Development	World Class Production Management	International Business Negotiations	Innovation Technology Management	Business Forecasting	Event Management	IT Applications in Healthcare

Shivaji University, Kolhapur
Master of Business Administration through Online Mode
MBA – I Sem – I

MBA Through Online Mode MBA -I, SEM-I PAPER-I MANAGEMENT PHILOSOPHY	
Course Outcomes:	After studying this course students will 1. Understand various approaches to management 2. Illustrate functions of management 3. Demonstrate business ethics and its relevance to business 4. Understand corporate governance and CSR 5. Application of different management functions
Syllabus Contents:	
Unit 1	Introduction and Evolution of Management: Definition-Scope of management. Classical Approach-Scientific Management Approach-Behavioral Approach-Human Relations Approach- Contingency, Operational Approach Levels of Management: Different levels of Management and skills required. Management by Objectives (MBO) – Definition, Meaning and Significance, MBO process
Unit 2	Functions of Management: Planning: Nature, Principles, Process, Types and Limitations of Planning. Organizing: Basic concept, Importance of Organizing, Process of organizing, and Span of control, Types of Organization, Structure and Design. Staffing- Importance and process of Staffing, recruitment, selection, induction and placement Directing: Nature and Principles, Purpose and need of Directing, Elements of directing Controlling: Process, Requirement for effective control, Control Techniques, Types of Control and Use of IT in controlling.
Unit 3	Business Ethics – Definition and its relevance to Business, Historical Perspective of Ethics, Global perspectives on business ethics. Approaches to managerial ethics. Trusteeship Management- Philosophy of Wealth Management.
Unit 4	Corporate Governance – Concept, importance, Benefits of corporate governance, role of board of directors, auditors and stakeholders in corporate governance, Principles of good corporate governance. Corporate Social Responsibility – Meaning, Need, Benefits, Responsibilities of business, Areas of CSR.

Reference Books:

- Agarwal. Tushar, (2019). *Business Ethos in Management*. New Delhi: Himalaya Publishing House.
- Daltion. M, (1974). *Management Principles and Practices*. New York: Macmillan Publications.
- Drucker, P. (2020). *Essentials of Management*. Brighton, Massachusetts: Harvard Business Review Press.
- Kelekar. Ravindra, (1960) *Trusteeship: M. K. Gandhi*. Ahmedabad: Navjeevan Publishing House.
- Koontz. (2008). *Essential of Management*. New Delhi: McGraw-Hill.
- Mrutunjaya. H, (2013). *Business Ethics and Value System*. Delhi: PHL Learning.
- Prasad. L, (2001). *Principles of Management*. New Delhi: Sultan Chand & Sons.
- Stephen. R, (2013). *Fundamentals of Management*. New Jersey: Pearson Education, Inc.
- Srivastav. R, (2010). *Principles of Management*. Mumbai: Himalaya Publishing House Pvt. Ltd.
- Sherlekar. S, (2019). *Modern Business Administration and Management*. New Delhi: Himalaya Publishing House.
- Shaw. William, (2019). *Business Ethics*. San Francisco: Cengage Learning.
- Rao. C.et.al. (2008). *Strategic Management and Business Policy*. New Delhi: Excel Books Pvt. Ltd.
- Richard. L, (2003). *Management*. Open Library: Thomson South-Western
- Velasquez. Manuel, (2006). *Business Ethics*. New Delhi: Prentice Hall India Pvt. Ltd.

MBA Through Online Mode MBA -I, SEM-I PAPER- II MANAGEMENT ACCOUNTING	
Course Outcomes:	After studying this course students will 1. Describe concepts in management accounting. 2. Understand financial statements 3. Prepare final account of a company 4. Prepare cost sheet of a company 5. Produce CVP analysis.
Syllabus Contents:	
Unit 1	Introduction to Accounting- Accounting Concepts, Convention & fundamental accounting assumptions. Journal, ledger, subsidiary books, Trial balance & final accounts (Trading, P&L A/C & B/S) Use of Computers in Accounting – Meaning, Role, Terms, Tally packages in Accounting, recent trends
Unit 2	Management Accounting- Concept, Meaning, Scope, Limitations of management Accounting, Functions of finance manager, Distinction between financial Accounting – Cost Accounting – Management Accounting.
Unit 3	Analysis of Financial Statements- Nature, objectives, uses & limitations of financial statements, Techniques of financial analysis- Comparative financial statements, Common size financial statements, Trend percentage ratios.
Unit 4	Cost Accounting- Meaning, Scope of Cost Accounting, Distinction between Financial & Cost Accounting Material, Labour, Overheads classification of cost, preparation of cost sheet Marginal Costing – Contribution Key factor, BEP, MOS, Decision making through CVP analysis.
Reference Books: Arulanandam M A, M. A. (1989). <i>Advanced Accountancy</i> . Mumbai: Himalaya Publishing. Colin, D. (2015). <i>Management and Cost Accounting with CourseMate</i> . India: Cengage India. Colin, D. (2015). <i>Management and Cost Accounting with CourseMate</i> . India: Cengage India. Goel, M. &. (1996). <i>Principles and Practice of Management Accounting</i> . Chennai: Pearson. Gupta, N. S. (2018). <i>Management Accounting: Principles and Practices</i> . New Delhi: Kalyani Publishers. Jeff O. Schatzberg Charles T. Horngren, G. L. (2013). <i>Introduction To Management Accounting</i> . Chennai: Pearson. Lal Jawahar (Author), S. S. (2019). <i>Cost Accounting</i> . New York, USA: Mc Graw Hill. Pandey., I. M. (2018). <i>Management Accounting</i> . Noida, Uttar Pradesh: Vikas Publication House Pvt Ltd. Rao Tukaram, M.E. (2004). <i>Cost and Management Accounting</i> . Mumbai: Newagepublishers. Sheridan Titman, A. J. (2019). <i>Financial Management: Principles and Applications</i> . Chennai: Pearson. Shukla M.C. and Grewal T.S. Gupta, S. (2016). <i>Advanced Accountancy, Vol-I</i> . New Delhi: S Chand Publishing. Shukla, M. G. (2016). <i>Advanced Accountancy Vol-II</i> . New Delhi: S Chand Publishing.	

MBA Through Online Mode MBA -I, SEM-I Paper - III BUSINESS STATISTICS AND ANALYTICS FOR DECISION MAKING	
Course Outcomes:	Upon successful completion of this course, students will be able to: 1. Obtain summary statistics of numerical data. 2. Represent numerical data diagrammatically and graphically. 3. Perform simple correlation and simple linear regression analysis. 4. Compute probability of events. 5. Explain binomial, Poisson, and Normal distributions. 6. Perform elementary hypothesis testing
Syllabus Contents:	
Unit 1	Measures of Central Tendency: Arithmetic mean, median, mode, geometric mean, harmonic mean. Measures of Dispersion: range, quartile deviation, mean deviation, standard deviation, variance, coefficient of variation. Graphical representation: bar chart, histogram, pie chart
Unit 2	Correlation: concept of correlation between two variables, types of correlation, scatter plot, Karl Pearson coefficient of correlation, Spearman's rank correlation coefficient. Regression: meaning and utility of regression analysis, simple linear regression, interpretation of regression coefficients, coefficient of determination.
Unit 3	Probability: random experiment, sample space, event, mutually exclusive events, exhaustive events, independent events, classical definition of probability, addition and multiplication laws of probability, conditional probability. Probability distributions: discrete and continuous random variables, Binomial, Poisson, and Normal distributions.
Unit 4	Testing of hypotheses: null and alternative hypotheses, procedure of testing of a hypothesis, critical region, type –I and type II errors, one sample and two sample t-tests, paired t-test, chi-square test for variance, F-test for two variances, chi-square test of independence
Reference Books: Arora, A. P. (2007). <i>Statistics for Management</i> . New Delhi: S.Chand (G/L) & Company Ltd. Bowerman. Bruce,(2015). <i>Essentials of Business Statistics</i> . Ne-York, USA: McGraw Hill. Gupta. S,(2018). <i>Business Statistics</i> . Mumbai: Himalaya Publishing House. Gupta.S,(2019). <i>Fundamentals of Statistics</i> . Mumbai: Himalaya Publishing House. Richard. Levin,(2017). <i>Statistics for Management</i> . Chennai: Pearson. McEvoy. D,(2018). <i>A Guide to Business Statistics</i> . New Jersey, USA: John Wiley and Sons Ltd.	

MBA Through Online Mode MBA -I, SEM-I Paper - IV MANAGERIAL ECONOMICS	
Course Outcomes:	After studying this course students will be able to - 1. Understand managerial economics and its practices 2. Demonstrate the production function 3. Illustrate pricing practices 4. Explain market structure and price determination under different market situations 5. Understand capital budgeting and business cycles
Syllabus Contents:	
Unit 1	Introduction to Managerial Economics Managerial Economics : Nature, Scope and significance in Business Decisions Demand Analysis- Types, Law of demand, factors affecting on demand Elasticity of Demand - Types of elasticity and its significance in Business Decisions Measurement of elasticity of demand- Methods and Applications
Unit 2	Production, Cost, Revenue and Profit Production function - Meaning, Short run and Long run Production function Cost of production – Cost Concepts and its curve in short and long run Revenue - Concepts of Revenue- Revenue curves under different markets Profit - Gross and Net Profit, factors affecting on profit – Break Even Analysis
Unit 3	Market Structure and Pricing methods Perfect Competition - Features -Price and Output Determination Monopoly- Features-Price and Output Determination Monopolistic Market- Features-Price and Output Determination Oligopoly Market – Features – Kinked Demand Curve – Price leadership.
Unit 4	Pricing Methods and Investment Analysis Factors affecting on Pricing of Products and Services Full Cost Pricing- Multi Product Pricing method Price Discrimination - Dumping Prices- Peak Load Pricing method Capital Budgeting - Methods, Significance and Limitations
Reference Books: Dwivedi.D, (2021). <i>Managerial Economics</i> . New Delhi: S Chand And Company Ltd. Mehta. P, (2013). <i>Managerial Economics Analysis, Problems and Cases</i> . New Delhi: Sultan Chand & Sons. Nick, W. (2005). <i>A Problem Solving Approach</i> . UK: Cambridge University Press. Paul Keat, P. Y. (2013). <i>Managerial Economics: Economic Tools for Today's Decision Makers</i> . New York, USA: Pearson Prentice Hall. Prince.M, (2021). <i>Managerial Economics & Business Strategy</i> . New York: McGraw-Hill Education. Varshney.R,(2014). <i>Managerial Economics Text Problems & Cases</i> . New Delhi: Sultan Chand & Sons.	

MBA Through Online Mode MBA -I, SEM-I Paper - V COMPUTER APPLICATIONS FOR BUSINESS	
Course Outcome:	After completion of course students will be able to: 1. Demonstrate computer applications 2. Make use of Ms-Office for business applications. 3. Organize data using MS-Excel 4. Analyze and Visualize business data using Ms-Excel. 5. Create interactive presentations and documents.
Syllabus Contents:	
Unit 1	MS-Word and PowerPoint: MS-Word-Word Processing: Introduction to MS Office components, Introduction and working with MS Word, Word basic commands Formatting Documents- Setting Font style, alignment, Indent, paragraph setting, page setting, and document style. Tables- Creating and formatting table, Border setting, Merging, Splitting, Sorting, Insertion and deletion of row column. Tools: Word completion, spell check, Mail merge, Macros, Temples, using wizards document security, Drawing: Inserting picture, drawing, formatting picture, grouping, ordering, and rotating picture.
Unit 2	Ms-PowerPoint: Creating presentation, using templates, setting presentation layout. Formatting Presentation: Adding style, management objet, header & footer, slide background, slide layout. Graphics and Effects: Inserting, drawing pictures, setting animation & transition effect, Adding multimedia files to presentation.
Unit 3	Ms-Excel: Introduction to spreadsheet, sorting, filtering of data, Relative reference, absolute reference and mixed reference formula, editing formula, Naming cell and range. Formatting Worksheet: Assigning and removing formats, using auto formats, custom formats, custom borders, controlling column height and width. Analysing Data: Entering Functions in worksheet, Mathematical functions, text functions, logical functions, and financial functions.
Unit 4	Statistical Analysis: Average, Median, Min, Max, Median, Mode, Standard deviation, variance, percentile function, quartile function COUNT, COUNTA, COUNTIF, COUNTBLANK , SUM, SUMIF. What-If-Analysis, Goal Seek, Solver, Scenario Manager, Pivot table, Pivot Chart. Data Visualization: Introduction to data visualization, Basic Charts in Excel, Creating Embedded charts, Creating charts and chart sheet. Different types of charts.

Reference Books:

Basandra. Suresh, (1995). *Computer Today* . New Delhi: Galgotia Publications Pvt Ltd.

Courter, G., & Marquis, A. (1999). *Mastering Microsoft Office 2000*. U.S.A.: Sybex.

Dumpeti Harikanth, R. N. (2010). *Computer Application in Business*. Republic of Moldova: LAP Lambert Academic Publishing (Publisher).

Panchal Sangeeta, S. A. (2013). *Foundations of Information Technology Coursebook 9: Windows 7 and MS Office 2007*. India: Oxford University Press.

Rajaraman., V. ., (2014). *Fundamentals of Computers*. New Delhi: Prentice Hall India Learning Private Limited.

Sinha Priti, S. P. (2004). *Computer Fundamentals : Concepts, Systems & Applications*. New Delhi: BPB Publications.

MBA Through Online Mode MBA -I, SEM-I Paper – VI MANAGERIAL SKILLS FOR EFFECTIVENESS	
Course Outcome:	After completion of course students will be able to: 1. Demonstrate the art of getting things done in the modern business world. 2. Apply written and oral communication skills 3. Analyze the appropriate use of communication principles in various business situation 4. Develop efficiency in the way how employers are performing the working tasks. 5. Adapt managerial skills with the purpose of effective and efficient fulfillment of the tasks
Syllabus contents:	
Unit 1	Business Communication - Meaning, Importance & objectives, process of business communication, Techniques of Effective Communication Written Communication -Business Letters- Types, Purchase letter, Sales letter, Inquiries, Circulars, Quotations , Orders , Acknowledgments Executions , Complaints , Claims & adjustments Collection letter ,Banking correspondence , Agency correspondence Meetings-Notice-Agenda, Resolutions in minutes, and Minutes writing.
Unit 2	Oral Communication - Listening & Speaking, Meeting speeches, & techniques of electing response, probing questions, Recording and closing, Observations, group communication Meaning and importance of group discussions, Interviews and interview methods, Nonverbal Expressions-Body Languages, Gestures, Postures, Facial Expressions, Dresscodes.
Unit 3	Managerial Skills & Personal Skills for Managers a) Essential management skills, Different methods of Improving management skills – An approach to skill development - leadership & management. b) Personal Skills (Skill Learning) Developing Self-Awareness, Managing Personal Stress, Solving Problems Analytically and Creatively c) Presentation Skill
Unit 4	Interpersonal Skills for Managers a) Methods of Building Relationships by Communicating Supportively- Skill Assessment; Skill learning; Skill Analysis; Skill practice and skill application. b) Gaining Power and Influence: Meaning; difference between power and influence c) Motivational tools d) Conflict Management- Meaning; style; process Group Skills for Managers - a) Empowering and Delegating, b) Building Effective Teams and Teamwork c) Leading Positive Change
Reference Books: Balasubramanian. M, (2003). <i>Business communication</i> . New Delhi: Kalyani Publishers. MaArcher. Robert, (2008). <i>Basic Business Communication</i> . New Delhi: Tata McGraw Hill. Murphy, (2017). <i>Effective Business Communication</i> . New Delhi: Tata McGraw Hill. Pradhan, (2003). <i>Business communication</i> . Mumbai: Himalaya Publishing House. Thill, (2016). <i>Excellence in Business Communication</i> . New Jersey, USA: Pearson Prentice Hall. Whetten. David, (2011). <i>Developing Management Skills</i> . New Jersey: Pearson Prentice Hall.	

MBA Through Online Mode MBA -I, SEM-I Paper – VII ORGANIZATIONAL BEHAVIOUR	
Course Outcome:	The students should be able to: 1. Understand the approaches and models of organizational Behaviour. 2. Illustrate the concept & determinants of personality. 3. Explain the concept of perception and process of perception. 4. Outline the concept of attitude; types and sources of values. 5. Understand the concept of organizational culture organizational change and development. 6. Demonstrate the various strategies for managing conflicts in organization. 7. Apply different theories of motivation and leadership with current situation.
Syllabus contents:	
Unit 1	Introduction to O.B. - Concept, Historical Overview of OB; Disciplines contributing to OB; Approaches to the study of OB, Models of OB
Unit 2	Micro Perspectives of O.B. – Individual Behaviour: Personal factors – Biographical characteristics & learned characteristics, Environmental factors & organizational factors. Personality – concept, Determinants of Personality; Development of Personality Perception – Meaning, nature & process; Attitude- concept components of Attitude, Measurement of Attitude; Values – concept, types of values, Sources of values.
Unit 3	Micro & Macro Dynamics of OB Motivation –Concept, Theories of Motivation – Maslow, Alderfer, Herzberg, McClelland, Vroom & Theory Z; Money & Motivation, Non – Financial incentives and motivation conflicts – concept, Types of conflict, Resolution of conflict stress – concept, causes, strategies to reduce the stress. Leadership Styles, Functions, Theories of Leadership Power & Authority – Concept, Types of Power, Difference between Authority & Power.
Unit 4	Macro Perspectives of OB Organizational Culture – Meaning, Emerging Issues Organization change – Nature, Factors in Organization change Resistance to change, Overcome resistance to change. Organizational Development – OD Techniques -
Reference Books: Aswathappa. K, (2017). <i>Organizational Behavior</i> . Mumbai: Himalaya Publishing House. Brooks. Ian, (2018). <i>Organizational Behaviour</i> . New Jersey: Pearson David Buchanan. David, (2020). <i>Organizational Behaviour</i> . New Jersey: Pearson. Gupta. C, (2014). <i>Organizational Behavior</i> . New Delhi: S. Chand & Company. Huczynski. Andrzej, (2015). <i>Organizational Behaviour</i> . Oxford, UK: Oxford University Press. Lawley. Scott, (2019). <i>Organizational Behaviour</i> . Oxford: Oxford University Press. Luhans. Fred, (2017). <i>Organizational Behavior</i> . New York: McGraw Hill. Pettinger. Richard, (2010). <i>Organizational Behaviour</i> . London UK: Routledge Group. Robbins. Stephan, (2018). <i>Essentials of Organizational Behavior</i> . London: Pearson Education. Smith. Paul, (2012). <i>Organizational Behaviour</i> . London: Routledge Group. Tosi. Henry, (2002). <i>The Fundamentals of Organizational Behaviour</i> . New Jersey: Wiley- Blackwell	

Shivaji University, Kolhapur
Master of Business Administration through Online Mode
MBA – I Sem – II

MBA Through Online Mode MBA -I, SEM-II PAPER-VIII MARKETING MANAGEMENT	
Course Outcomes:	After completion of this course students will be able to: 1. Understand marketing, and its impression on business. 2. Illustrate the dynamic marketing environment 3. Examine buying influences 4. Explain new edge of marketing. 5. Analyze the market and develop suitable marketing strategy
Syllabus Contents:	
Unit 1	Market and Marketing Environment Introduction to Market, classification of market, Meaning & Definition of marketing, Need, scope of marketing, Objectives of marketing, Marketing functions, Core concepts of marketing, Company orientation towards market place. Introduction, Meaning, Scanning the environment, Environmental analysis, Importance and Need, Microenvironment and Macro environment of marketing, Market Plan-Importance, marketing planning process.
Unit 2	Buying Behavior and Marketing Information System Meaning & Definition of consumer behavior, Importance, Factors influencing consumer behavior, Buying decision process, Buying motives. Banding- meaning, advantages & disadvantages, Packaging-meaning, function of packaging Introduction to Marketing Information System, Importance & Requisites. Segmentation- Meaning & Importance, Bases for consumer market segmentation, Selection of segment, Market targeting, Product positioning.
Unit 3	Strategies of 4P's Meaning & Definition of product, Classification of product, Product Life Cycle & Marketing strategies, New product development process, Pricing- Meaning, Pricing objectives, Factors affecting pricing price determination policies, Pricing methods. Promotion mix-publicity, Sales Promotion - Nature & Techniques, Personal selling-nature & Importance, Process of personal selling. Channels of distribution-concept & importance, channels of distribution for consumer product & industrial product, Selection of channel for logistics management

Unit 4	New Edge of Marketing- Neuro-marketing- concept, meaning, Neuroscience and Consumer Thinking, Methodology, overview of Applications. Green Marketing- Concept, Importance, Green Marketing Mix, Digital Marketing- Concept, importance, benefits, limitations. Social Media Marketing.
Reference Books: Ahuja. Vandana, (2015). <i>Digital Marketing</i> . New Delhi: Oxford University Press. Grewal, D. (2016). <i>Marketing</i> . New Delhi: Tata McGraw Hill Education Pvt. Ltd. Kamat. Nitin, (2015). <i>Digital Social Media Marketing</i> . New Delhi: Himalaya publishing House. Karunakaran. K, (2010). <i>Marketing Management</i> . New Delhi: Himalaya publishing House. Kotler, Philip. (2017). <i>Marketing Management</i> . New Delhi: Prentice Hall India Ltd. Loss. Monica, (2013). <i>Green Marketing: Marketing Strategy and Consumer Behaviour</i> . New Delhi: Global.. Vision Publishing House. Ramaswamy, (2017). <i>Marketing Management</i> . New Delhi: Tata McGraw Hill publishing Company Ltd. Saxena. Rajan, (2005). <i>Marketing Management</i> . New Delhi: Tata McGraw Hill publishing Company Ltd. Shimp, T. (2013). <i>Integrated Marketing Communication in Advertising and Promotion</i> . San Francisco: Cengage Learning. Singh. Surabhi (2021). <i>Neuromarketing and its Applications</i> . New Delhi: Himalaya publishing House. Walker, (2007). <i>Marketing Strategy</i> . New Delhi: Tata McGraw Hill.	

MBA Through Online Mode MBA -I, SEM-II PAPER-IX FINANCIAL MANAGEMENT	
Course Outcomes	After completion of this course students will be able to: 1. Understand Financial Management 2. Illustrate strategic financial planning and models. 3. Demonstrate working capital management. 4. Analyze statements of accounts. 5. Estimate time value of money
Syllabus Contents:	
Unit 1:	Introduction to Financial Management- Introduction, Meaning, Objective, role and functions of financial management Ratio Analysis- Meaning, Nature and interpretation of ratios Profitability, Solvency, Leverage, Turnover ratios, Computation and Comparison of ratios.
Unit 2:	Working capital management – Meaning, Significance, type and determinants of working Operating cycle and estimation of working capital, requirement, Sources and application of working capital. Operating & Financial Leverage- Meaning, Concept and measurement of leverage. Calculation of operating, financial and combined leverage.
Unit 3:	Cost of Capital- Meaning and Significance of cost capital. Capital structure, Calculation of cost of capital-preference, equity and debt. Capital Budgeting- Concept, meaning & importance of capital budgeting. Factors influencing budgeting Investment evaluation criterion –NPV, PI, PBP, IRR.
Unit 4:	Budget and Budgetary Control- Meaning, objective, limitations of budgetary control system. Types of budget. Sales, purchase, Fixed Flexible, Cash, Master budget. Management Reporting- Meaning, objective, essentials of good report. Characteristics of good reporting system. Types of report.
Reference Books: Gitman, Lawrence. (2017). <i>Principles of Managerial Finance</i> . New Jersey, USA:Pearson Education. Horne, J. (2002). <i>Financial Management & Policy</i> . New Jersey: Pearson Education. Knott, G. (1991). <i>Financial Management</i> . London: Palgrave Publications. Khan, M. (1982). <i>Financial Management</i> . New Delhi: Tata McGraw Hill. Prasanna Chandra, Prasanna. (2005). <i>Fundamentals of Financial Management</i> . New Delhi: Tata McGraw Hill. Rustagi, R. (2021). <i>Financial Management</i> . New Delhi: Taxmann Publications. Seeba, Kapil. (2015). <i>Fundamental of Financial Management</i> . New Delhi: Wiley India. VanHorne. (2001). <i>Financial Management and Policy</i> . New Delhi: Prentice Hall Publications.	

MBA Through Online Mode MBA -I /SEM-II HUMAN RESOURCE MANAGEMENT Paper – X	
Course Outcome:	The students should be able to: 1. Understand the concept of HRM, Functions & Development of HRM 2. Illustrate the concept of Strategic HRM 3. Demonstrate the process of HRP. 4. Explain the sources of recruitment, selection and placement process. 5. Outline the concept of Employee health and safety. 6. Illustrate the methods of wage payment and the types of incentives and benefits. 7. Understand the concept of virtual organization; flexi time & flexi-work, moonlighting, Employee engagement, Employee branding HR Capital & Talent Management.
Syllabus contents:	
Unit 1	Human Resource Management Concept , Nature, Scope & Functions; Development of Human Resource Management; Strategic Human Resource Management – Concept, Difference between Traditional HRM & Strategic HRM
Unit 2	Human Resource Planning – Meaning, Objectives, Importance & Process, Barriers of HRP Job Analysis- Concept, Uses, Process; Job Description & Job Specification; Recruitment – Objectives, Sources of Recruitment, Factors of Recruitment; Selection – Process Placement – Concept, Process; Socialization – Phases.
Unit 3	Maintenance of Manpower Employee Health & Safety – Concept; Occupational Hazards& Accidents – types and causes; Safety – Significance; Social Security- Concept, Objective, Scope, Types. Wage & Salary administration – objectives, Methods of wage payment, Factors, affecting wage & salary level, Incentives – Concept, Types, Benefits
Unit 4	HR in new era Virtual Organization, Flexi time, Flexi work, moonlighting by employees; Human Resource Accounting – Meaning, Objectives, Methods, Limitations; Employee Engagement, Employee Branding, Green HRM, HR Capital, Talent Management.
Reference Books: Aswathappa, K. (2010). <i>Human Resource Management</i> . New Delhi: McGraw Hill Publication. Byars, Lloyd. (2000). <i>Human Resource Management</i> . New York: McGraw Hill. DiCenzo, David. (2021). <i>Human Resource Management</i> . New Delhi: Wiley India Publications. Gary Dessler, Gary. (2017). <i>Human Resource Management</i> . New Jersey: Pearson Prentice Publications. Gilbert, Joaquina (2020). <i>Human Resource Management</i> . Mumbai: Vibrant Publication. Stewart, Greg (2019). <i>Human Resource Management</i> . USA: Wiley. Joh M. Ivancevich, Joh. (2007). <i>Human Resource Management</i> . New York: McGraw Hill Khanka, S. (2003). <i>Human Resource Management</i> . New Delhi: S. Chand Publications. Mondy, Wayne. (1993). <i>Human Resource Management</i> . University of Michigan: Allyn and Bacon Rao, V. (2020). <i>Human Resource Management</i> . New Delhi: Taxmann Publications Pvt. Ltd. Subba Rao, P. (2011). <i>Human Resource Management</i> . Mumbai: Himalaya Publications. Verhulst, Suson. (2018). <i>Human Resource Management</i> . USA: Wiley	

MBA Through Online Mode MBA -I, SEM-II PAPER-XI OPERATIONS MANAGEMENT	
Course Outcomes:	After completion of this course students will be able to: 1. Understand Operations management system 2. Interpret issues pertaining to management of productivity, manufacturing technology and facilities. 3. Explain an appreciation of the crucial role of operations management in the efficiency, competitiveness, and profitability of business operations. 4. Demonstrate the formulation and application of methods and models for inventory management. 5. Illustrate various aspects of quality management.
Syllabus Contents:	
Unit 1	Introduction to Production Management Production Management- Introduction, Nature and scope of operations Management, Historical Evolution of Operations Management, Interface with other functional areas such as Marketing Personnel Finance, Purchasing, Maintenance, Research and Development. Operations Research-Computers and advanced Operations Technology Production Systems and PPC Types of Production Systems – Intermittent and continuous, Job Batch, Mass and flow production systems, Assembly lines balancing, E- Manufacturing- Emerging Manufacturing Technology, Option and Choice.
Unit 2	Production Planning Control – Objectives, Types and functions of PPC, The Aggregate Planning process, Elements of scheduling, - Master Scheduling, priority planning, Facility Loading, Sequencing problem of Scheduling. Production Control- Control Techniques. Plant location and plant Lay Out- Need, Importance and Selection of exact location, Factors affecting plant location selection, plant Lay out-Importance, Types of Plant Lay Out, Criteria for good layout.
Unit 3	Quality and Material Management A) Quality Management – Meaning and Importance, Inspection, and Quality Control, Quality Assurance, Strategic role of Quality Management, Purpose of Quality Control- Cost of Quality- Total Quality Management, ISO Certifications. Computers in Quality control. Maintenance and Material Management - Introduction to Materials Management, types of maintenance, Modern approaches to Maintenance Management, Primary and Secondary Objective of Material Management, Scope of Material Management organization. Materials Management Techniques.
Unit 4	Store and Inventory Management – Purchasing and Store Management - Importance of Purchasing- Purchasing Procedure and policies. Responsibilities of Purchase Manager, Store Keeping- Objective, and Importance of Store Lay Out. Inventory Management-Types of inventory Management Systems, Objectives of MRP, Fix Order Quantity Periodic Review System, Selective Control of Inventory – ABC Analysis, VED Analysis.

Reference Books:

- Aswathappa, K. (2017). *Production & Operations Management*. Mumbai: Himalaya Publishing House.
- Buffa, E. (1980). *Operations management*. New Delhi: Wiley India Private Limited.
- Cherry, S. (2009). *Production and Operations Management*. New Delhi: Tata McGraw Hill Education Pvt. Ltd.
- Chunawala, S. (2018). *Production & Operations Management*. Mumbai: Himalaya Publishing House.
- Gupta, P. (1976). *Operation Research*. New Delhi: S. Chand publication.
- Pannerselvan, R. (2012). *Production & Operations management*. New Delhi: Eastern Economy Edition.
- Swaroop, Kanti. (2019). *Operation Management*. New Delhi: Sultan Chand & Sons publication.
- Wagner, Harvey. (1975). *Principles of Operation Research*. New Delhi: PHI publication.

MBA Through Online Mode MBA -I, SEM-II Paper – XII LEGAL AND BUSINESS ENVIRONMENT	
Course Outcomes:	After studying this course students will be able to: 1. Understand Legal Aspects of Business with respect to Indian economy. 2. Identify various legal provisions relevant to business aspects and situations. 3. Illustrate components of business environment. 4. Examine Business Environment. 5. Appraise Globalization trends a, challenges and environment for foreign trade and investments.
Syllabus Contents:	
Unit 1	Introduction to Business Law and Mercantile Law Importance of legal knowledge to managerial personnel and Entrepreneurs. Structure of Indian Legal system. Fundamentals of Indian Contract Act 1872 General rules relating to formulation of contract, Performance and discharge of contract. Breach of contract and remedies for Breach of contract, Quasi contracts, Various special contracts like Bailment, agency, indemnity and guarantee General principles of sale of goods Act
Unit 2	Principles of Laws relating to Business organizations. Formation of partnership firms and company Protecting Company/ Business Property. Dissolution of partnership and winding up of company Intellectual Property Rights Copy right, Trademarks, Patents etc Registration and protect of IPRs, Remedies for infringement of IPRs.
Unit 3	Business Environment - Macro and Micro Indicators of Business environment, Growth Indicators and Development Indicators. Sectors of Indian economy and Emerging sectors during last 20 years. Relative Size and growth of Public and Private Sectors.
Unit 4	Global Business Environment - Globalization trends and challenges, Development of Rural sector since globalization, Environment for Foreign Trade and foreign investment. Exchange rate movements and its impact on economy. India's competitiveness in the world economy and ease of doing business in India.
Reference Books: Cherunilam, Fransis. (2018). <i>Business Environment</i> . Mumbai: Himalaya Publication. Davis, Keith. (2015). <i>Business and Society</i> . New York, USA: McGraw Hill Publications. Dutt, Rudder. (2019). <i>Indian Economy</i> . New Delhi: Vikas Publishing House. Hulleman. Wim, (2021). <i>Economics and Business Environment</i> . London, UK: Routledge Publication. Maheswari, (2020). <i>Mercantile Law</i> . Mumbai: Himalaya Publishing House. Pailwar, Veena. (2020). <i>Economic Environment of Business</i> . New Delhi: PHI learning Pvt. Ltd. Pathak. (2018). <i>Legal Aspects of Business</i> . Mumbai: Tata McGraw- Hill Publishing Company Limited Sulphey, M.M. (2014). <i>Laws for Business</i> . New Delhi: PHI Learning Pvt. Ltd.	

MBA Through Online Mode MBA -I, SEM-II PAPER-XIII RESEARCH METHODOLOGY	
Course Outcomes:	After studying this course student will be able to: 1. Explain various terms used in research process 2. Understand research design, sample design and sampling methods 3. Apply appropriate methods for data collection for research work 4. Make use of appropriate statistical tools for data analysis and interpretation 5. Design sampling frame
Syllabus Contents:	
Unit 1	Introduction to Research and Research Design: Meaning, objectives & Motivation in research: Types of research –Research Approach Research process, relevance & scope of research in management. Ethics in Research. Research Design: Features of good Design, Types of Research Design, and Basic principles of experimental Design. Sampling Design: steps in sample Design, Characteristics of a good Sample Design, Different Types of Sample Designs: non-probability sampling and probability sampling.
Unit 2	Measurement and Data Collection: Measurement & scaling techniques: Errors in measurement test of sound measurement, scaling & Scale construction technique, reliability and validity of scale. Methods of data collection: Primary data – Observation, Interviews Questionnaire and schedule, Collection of secondary data. Processing and analyzing data: Measures of central tendency, measures of dispersion and skewness, simple and multivariate regression analysis
Unit 3	Sampling and Testing of Hypothesis: Testing of Samples: Sampling distribution, sample theory determining size of sample, confidence level. Testing of Hypothesis: Procedure for hypothesis testing. Use of statistical techniques for testing of hypothesis.
Unit 4	Interpretation of Data, report Writing Plagiarism and research in Functional areas: Interpretation of data: Techniques of Interpretation, report writing, layout of a project report. Writing and publication of a research article. Plagiarism: Meaning, importance of plagiarism in research. Ways of checking the plagiarism. How to avoid or reduce the Plagiarism. Use of Computers and software in research. Research in general management: Research in functional areas – marketing, finance, HR, production.
Reference Books: Bryman, Alan. (2016). <i>Business Research Methods</i> . A South Asian Perspective with Course Mate, Boston: Cengage Learning. Cooper, Donald (2018). <i>Business Research Methods</i> . New York: McGraw Hill Hair, Joseph (2011). <i>Business Research Methods</i> . London: Routledge Group. Kothari, C.R. (2019). <i>Research Methodology</i> . Mumbai: New Age International Publishers. Michael, Dr. V.P. (2010). <i>Research Methodology in Management</i> . Pune: Himalaya Publishing House. Pannerselvan, R. (2014). <i>Research Methodology</i> . New Delhi: PHI Learning. Zikmund, William (2019). <i>Business Research Methods</i> . Boston, San Francisco: Cengage Publications.	

MBA Through Online Mode MBA -I , SEM-II PAPER-XIV STRATEGIC MANAGEMENT	
Course Outcomes:	After studying this course students will be able to: 1. Understand the concept and process of strategic management 2. Illustrate various tools used for strategic choice 3. Demonstrate strategy evaluation and control 4. Evaluate external and internal business environment 5. Analyze situational SWOT
Syllabus Contents:	
Unit 1	Introduction to Strategic Management - Concept of strategy, levels at which strategy operates, strategic decision making, approaches to strategic decision making, Definition of strategic management, strategic management process, Strategic intent: Vision, Mission, Goals and Objectives. Environmental scanning and appraisal, Organizational appraisal, ETOP, Strategic Advantage Profile
Unit 2	Strategy Formulation and Choice - Corporate level strategies- Stability, Expansion, retrenchment, and Combination strategies -Business level strategies- Generic business strategies; Survival and Growth strategies. -Strategic analysis and choice- Tools and techniques for strategic analysis, GAP analysis, BCG Matrix, Porter's five forces model, TOWS Matrix, Grand Strategy Matrix
Unit 3	Strategy Implementation: Inter-relationship of formulation and implementation, Project Implementation, Procedural implementation, Resource Allocation, Behavioral implementation, Structural implementation, Functional implementation.
Unit 4	Strategy Evaluation & Control - Strategy Evaluation: Importance, Overview of strategic evaluation, strategic control, Operational Control, techniques of strategic evaluation and control
Reference Books: Arthur A. Thompson et.al., (2019). <i>Crafting and Executing Strategy</i> . New York: McGraw Hill companies . Gerry Johnson et.al., G. J. (2019). <i>Exploring Corporate Strategy</i> . Chennai: Pearson Publication. Hoskisson, M. (2009). <i>Strategic Management</i> , . Ireland: Cengage Learning. Kazmi, A. (2008). <i>Strategic Management and Business Policy</i> . TMH, Europe: The McGraw Hill companies. McMillan, E. (2008). <i>Complexity Management and the Dynamics of Change</i> . UK: Routledge: Howick place,. Rao, B. P. (2011). <i>Business Policy and Strategic Management</i> . Pune: Himalaya Publishing House . Wheelen, T. (2018). <i>Concepts in Strategic Management and Business Policy</i> , . Chennai: Pearson Publication.	



Estd:1962

NAAC “A+ +” Grade with CGPA 3.52

SHIVAJI UNIVERSITY, KOLHAPUR
CENTRE FOR DISTANCE AND ONLINE EDUCATION (CDOE)

Syllabus For

Master of Business Administration (MBA)
Through Online Mode

Part – II (Semester- III& IV)

Under the Faculty of Commerce and Management

(To be implemented from 2022-23)

SHIVAJI UNIVERSITY, KOLHAPUR
CENTRE FOR DISTANCE AND ONLINE EDUCATION (CDOE)
MASTER OF BUSINESS ADMINISTRATION (MBA) PROGRAMME
Through Online Mode

MBA Part-II Semester-III

Paper No.	Course Code	Course Titles	Course credits	Internal Evaluation	University Evaluation	Total Marks
15		Chh. Shivaji Maharaj -The Management Guru	4	20	80	100
16		Project Report and Viva	8	100	100	200
17		Elective I–Paper I	4	20	80	100
28		Elective I–Paper II	4	20	80	100
19		Elective I–Paper III	4	20	80	100
20		Elective II-Paper I	4	20	80	100
21		Elective II-Paper II	4	20	80	100
22		Elective II-Paper II	4	20	80	100
		Total	36	240	660	900

MBA Part-II Semester-IV

Paper No.	Course Code	Course Titles	Course credits	Internal Evaluation	University Evaluation	Total Marks
23		Elective I-Paper IV	4	20	80	100
24		Elective I-Paper V	4	20	80	100
25		Elective I-Paper VI	4	20	80	100
26		Elective II-Paper IV	4	20	80	100
27		Elective II-Paper V	4	20	80	100
28		Elective II-Paper VI	4	20	80	100
		Total	24	120	480	600

Electives:

1. Marketing Management	6. Entrepreneurship
2. Financial Management	7. Business Analytics
3. Human Resource Management	8. Hospitality Management
4. Production and Operations Management	9. Health Care Management
5. International Business	

List of Elective Courses:

Courses	Elective –1 Marketing Management	Elective – 2 Financial Management	Elective – 3 Human Resource Management	Elective – 4 Production and Operations Management	Elective -5 International Business	Elective-6 Entrepreneurship	Elective-7 Business Analytics	Elective-8 Hospitality Management	Elective-9 Health Care Management
Semester – III Paper-I	Sales and Distribution Management	Indian Financial System	Human Resource Planning and Procurement	Operations Management Strategy	International Business Environment	Project Planning and Implementation	Business Data Management	Fundamentals of Hospitality Management	Fundamentals of Hospital Administrations
Semester – III Paper-II	Integrated Marketing Communication	Financial Decision Analysis	Human Resource Development	Production Planning and Control	Export and Import Policy	Startups and New Venture	Business Analytics in Management	Hotel Management	Health Care Service Management
Semester – III Paper-III	Consumer Behaviour	Project Appraisal and Finance	Compensation Management	Materials and Inventory Management	Cross Cultural Management	Institutional Support and Venture Funding	Data Visualization using Python	Tourism Management	Medico Legal Environment in Healthcare
Semester –IV Paper-IV	Service Marketing And Retail Marketing	Investment Management and Portfolio Analysis	Strategic HRM and International Perspectives	Supply Chain Management	Issues in International Business	Family Business Management	Cloud Computing and Virtualization	Travel Agency and Tour Operations Management	Facility Management
Semester –IV Paper-V	Digital Marketing	Behavioural Finance	Industrial Relations and Labour Laws	Global Operations and Logistics	International Marketing	Venture Valuation and Accounting	Business Analytics using R	Customer Relationship Management	Healthcare Marketing
Semester –IV Paper-VI	Contemporary Issues in Marketing	International Finance	Organisational Change and Organisational Development	World Class Production Management	International Business Negotiations	Innovation Technology Management	Business Forecasting	Event Management	IT Applications in Healthcare

Shivaji University, Kolhapur
Master of Business Administration Through Online Mode
MBA–II - Sem–III

MBA Through Online Mode M.B.A.-II SEM-III Paper-XV Chh. Shivaji Maharaj – The Management Guru	
Course Outcomes	Students of this course will be able to: 1. Describe functions and skills adopted by Chhatrapati Shivaji Maharaj. 2. Relate Strategies used by Chhatrapati Shivaji Maharaj with Modern management. 3. Evaluate the planning and strategic options. 4. Design the planning and strategic options.
Syllabus Contents:	
Unit 1:	Chhatrapati Shivaji Maharaj and Management a) Management Activity 1. Management as Process 2. Management as an Activity 3. Management as a Discipline 4. Management as a Group 5. Management as an Art 6. Management as a Science b) Management Function • Flawless Planning • Organization, • Human Resource Development, • Co-ordination, • Leadership, • Control • Management of Change • Decision Making, c) Chhatrapati Shivaji Maharaj – Management Skills • Fair Administration • Despised Discrimination • Ahead of Time Thinking • Timeless Techniques, relevance to modern management • Communication and Motivation skills • Rational Thinking • Foresight
Unit 2:	Chhatrapati Shivaji Maharaj: Administration Management a. Administration of Civil Department, Revenue and Finance, Custom and Taxes, Trade and Commerce, Banking, Total Revenue b. Administration of Military Department - Infantry, Cavalry, Navy, Intelligence Department, Fort Management

	c. Ashta Pradhan Mandal Administration, Secretariat and Judicial Machinery, Concept of Swarajya. d. Welfare leader: Justice System, cultural system, economic system, social and cultural systems, conflict resolution and rewarding systems. e. Chatrapati Shivaji Maharaj and Henry Fayol's 14 principles. Shivaji Maharaj and Sun Tzu's thirteen Principles of Art of War.
Unit 3:	Chhatrapati Shivaji Maharaj: Modern management Strategies • Battle Management: Battle of Purandar, Battle of Pratapgad, Afjal Khan and Chhatrapati Shivaji Maharaj conference, Arrest in Agra and Escape. • Policy Management: Economic policy, Revenue system and welfare policy of Chhatrapati Shivaji Maharaj Strategies used by Chhatrapati Shivaji Maharaj implemented in today's corporate world: Guerrilla technique, Innovations, Minimize Risk, Establishing the Sequence of Activities, Proper Judgments, Patience.
Unit 4:	Chhatrapati Shivaji Maharaj: Visionary Leader a) Leadership Traits. Ethical setup, Diplomacy, continuous improvement, expansion policy, mergers and acquisition, conversion of Vision to reality, Shivaji Maharaj and Alexander, Shivaji Maharaj and Julius Caesar b) Shivaji Maharaj as tactician: 1. The principle of the maintenance of the aim. 2. Principle of security 3. Principle of mobility 4. Offensive techniques 5. Economy and concentration of force 6. Surprise attack on the enemy 7. Breaking the outer front and inner front.
Reference Books: 1. Administrative System of Chhatrapati Shivaji: Relevance to Modern Management – Dr. Kedar Phlke, Publisher; Shri. Shivaji Raigad Smarak Mandal, Pune. 2. Raja Shiv Chatrapati - B. M. Purandare 3. Shrimanyogi - by Ranjeet Desai. 4. Chhatrapati Shivaji Maharaj memorial book by Dr. Jaysingrao Pawar. 5. Shivaji the Great republished by Dr Balakrishna published by Shivaji University, Kolhapur. 6. Shivaji his life and times – Gajanan Bhaskar Mehendale. 7. The generalship of Alexander the Great – J.F.C. Fuller. 8. Hannibal – enemy of Rome – Leonard Cottrell 9. Julius Caesar – Man, Soldier and Tyrant – J.F.C. Fuller.	
Suggested Case Studies: on Management Function, Modern management Strategies, Management Skills	

MBA Through Online Mode
M.B.A.-II SEM-III
Paper-XVI
PROJECT REPORT AND VIVA

Student has to undergo a practical training of minimum fifty days. MBA being professional course it is essential for each student to practically apply or understand theoretical concepts what he/she learn during the course. During the training programme student is expected to collect vital information through internal and external source so as to reach concrete conclusions on the given subject. Student has to prepare the project report under the guidance of a research guide either allotted from the approved list of guides by university or students can select the eligible guide from their vicinity. The last date of submission of final copy of project will be declared time to time by the director of distance education, Shivaji University, Kolhapur. Student should submit two typed copies to the University. One copy for the university and another copy for his/her personal record. Students may prepare additional copies for the organization guide etc.

A viva-voce examination will be conducted online before the Semester IV examination. A viva voce committee will be appointed by the university. A committee will consist of three members. Number of committees to conduct the viva voce has to be decided by Chairman BOS in Management, Faculty of Commerce and Management, Shivaji University, Kolhapur in the consultation with the Director of Distance Education Center, Shivaji University, Kolhapur.

A viva-voce committee will be appointed by the university. A committee will consist of 3 members.

Constituent of the committee for viva voce

1. Chairman of the committee – Doctorate in the concern faculty
2. Member of the committee - Doctorate in the concern faculty
3. Member of the committee - Doctorate in the concern faculty

Guidelines for the project report

Declaration from the student that the research work is not copied from any other existing reports.
Certificate of the guide - Guide should certify that the research work is original and completed satisfactorily under his guidance.

The Chapter scheme for the project report will be as follows

Chapter No. I: Introduction to the study.

- 1.1 Introduction
- 1.2 Objectives and importance of the study
- 1.3 Scope and limitations of study
- 1.4 Research Methodology

Chapter No. II: Introduction to the organization

- 2.1 Introduction to the industry
- 2.2 Brief History of organization
- 2.3 Subsidiaries, Associates of the company
- 2.4 Departments/Manufacturing process

- 2.5 Important statistical information
- 2.6 Future prospect
- 2.7 Organization Structure

Chapter-III: Theoretical Background

Basic concepts Necessary theoretical inputs may be added to support the research work.

Chapter-IV: Data Analysis and Interpretation

Data should be analyzed with help of various tools studied in the Subject "Application of Research Methods in Management".

CHAPTER-V: FINDINGS/OBSERVATIONS

CHAPTER-VI: SUGGESTIONS/CONCLUSION

Appendix

The document charts, questionnaires, tables, schedules etc. which are actually referred to in the body of the project report (this consists of chapters I to V) are to be included under appendix or appendices.

So, the appendices may include.

Questionnaires used for collecting information. Schedules used for collecting information.

Tables formed for presenting the data.

Documents/forms etc., referred to in the body of the project report. Diagram, graphs etc. referred to in the body of the project report.

Guide student meeting record form.

Joining letter of industry Progress reports duly signed

Performance appraisal report duly signed by industry authority

Bibliography

Bibliography means list of books, journals, published work actually referred to or used in the writing of the project report. This is not a separate chapter. The bibliography has to be written in a specific manner

The above guidelines are not the prescription on writing the project report but can be used as a milestone while writing the Project Report. The guide has every discretion to change the chapter scheme as per the requirement

Note: 1) There should be proper linkage between objectives, data analysis and interpretation, findings and suggestions.

2) Student should not use logos and name of company on the project report pages. Header and Footer shall consist of university name and institute name respectively. No other information should be included in the Header and Footer.

3) Use of colours in text matter should be avoided.

4) Student has to check the plagiarism percentage of project report before submission of the hard copy of the project report. The accepted plagiarism level is less than Five percent. Plagiarism check should be done at Shivaji University's library. Plagiarisms check done at any other institutes or at any other softwares will not be accepted. Plagiarism check report should be attached in the hard copy of the project report.

Eligibility of the Guide:

1. Director, Distance Education Center, Shivaji University, Kolhapur will declare an updated list of approved guides every year. Students may opt the guidance of experts from the list.
2. Students can select a guide for project report from their vicinity. An expert teacher working at PG level dealing with Commerce & Management courses working full time approved teacher of any university, autonomous institute is eligible to guide the student for project report. (The formal permission from the Director, Center of Distance Education, Shivaji University, Kolhapur need to be taken in writing.)
3. The teacher dealing with PG courses in Economics, Psychology, Sociology, Statistics are also eligible. Student has to take prior permission from CDE SU, Kolhapur for the same.
4. Student has to write to university for guide approval, along with brief profile of expert conveying his eligibility to guide the student for MBA project.

Note: The detailed discussion and procedures have been detailed in the Self Instructional Material of University.

JOINING REPORT

Date:

To,

The Director,

.....

.....

..... Sub: Joining Report

Respected Sir,

I, Shri/Ms.

.....have joined
..... for the summer in-
plant training fromfor the Project Work to be carried
out.

I would be carrying out project work under the guidance and supervision of Shri. /Ms.

..... (designation)

..... in

.....area. The title of my project work is

I shall join the college immediately after completion of my training i.e. on 1st August 20 without fail.

(Name & signature of the Student) (Name and Signature of the Industry Guide)

Seal of Organization.

MBA Through Online Mode M.B.A.-II SEM-III ELECTIVE - I- MARKETING MANAGEMENT PAPER-I SALES AND DISTRIBUTION MANAGEMENT	
Course Outcomes:	After studying this course students will be able to – 1. Understand sales management functions and sales forecasting 2. Illustrate sales force management 3. Demonstrate personal selling process 4. Explain logistic management 5. Understand advances in Supply Chain Management
Syllabus Contents:	
Unit 1	Sales Management – Evolution, Definition, sales management functions, place & importance of sales management in the organization. Sales forecasting – Meaning, Importance, Types of forecasting, Forecasting methods and procedure, Importance, merits & demerits of various methods. Sales related marketing policies
Unit 2	Sales Force Management –Determining size of sales force, Determining kind of sales personnel, Controlling sales personnel, evaluating and supervising, Sales Meeting & Sales Contests, Sales Quota, sales Territory, Sales control and cost analysis – The sales audit, sales analysis, marketing cost analysis
Unit 3	Personal Selling –Importance of personal selling, Formulation of personal selling strategy, Personal selling objectives, Personnel selling situations, Personal Selling Process, Characteristics of good sales person, Selling skills, Negotiation Skills, Different phases of negotiation, B2B Selling
Unit 4	Logistics & Supply Chain Management - Definition & scope of logistics, key logistics activities, market logistics decision, emerging concepts in logistics. Concept of supply chain management, need for SCM, advances in SCM.
Reference Books- 1. Sales Management: Decision, Strategies and Cases- R.R.Still , E.W.Cundiff , N.A.P.Govani, Pearson Education 2. Sales and Distribution Management – K.K. Havaldar, V.M. Cavale, Tata McGraw Hill Company 3. Professional Sales Management -Anderson, Hair and Bush, McGraw Hill Company 4. Effective Salesmanship – Richard T. Hise 5. Sales Management – RustomDavar 6. Marketing Management- Kotler, Keller, Koshy, Jha, Prentice Hall. 7. Marketing Management - Ramaswamy, Namakumari, McGraw Hill Education	
Suggested Additional Readings: (if web source then provide url) 1. American Marketing Association: https://www.ama.org/Pages/default.aspx .	

Suggested Research Journals:

1. International Journal of Retail and Distribution Management
2. Indian Journal of Marketing
3. The IUP Journal of Marketing Management

MBA Through Online Mode M.B.A.-II SEM-III ELECTIVE - I- MARKETING MANAGEMENT PAPER II INTEGRATED MARKETING COMMUNICATION	
Course Outcomes	1. To make students learn about various means of marketing communication and its effectiveness. 2. To make students understand the importance of marketing communication in marketing. 3. To help them study the measurement of effectiveness of advertisement 4. To make them understand the ethics in advertising.
Syllabus Contents:	
Unit 1	Meaning, Evolution of IMC ----Role of IMC in Marketing --- Establishing Objectives and Budgeting: Determining Promotional Objectives, Sales vs. Communication Objectives, DAGMAR, Problems in Setting Objectives, Setting Objectives for the IMC Program
Unit 2	Elements of IMC 1. Sales Promotion – Different Types of Sales Promotion, Advantages and Disadvantages. 2. Public Relation and Publicity – Types of PR, Advantages and Disadvantages, Types of Publicity. 3. Direct Marketing – Features, Advantages and Disadvantages. 4. Personal Selling – Features, Advantages and Disadvantages. 5. Advertising – Features, Advantages and Disadvantages
Unit 3	Advertising 1. Advertising Media---Print, Electronic, Broadcast, outdoor, direct mail, transit, and digital media. Advantages and disadvantages 2. Advertising Agencies – Function – Types – In-house Agencies – Direct Response Agencies – Sales Promotion Agencies – PR Firms – Interactive Agencies – Advertising Agency Structure –Client-Agency Relationship – Agency Selection – Agency Compensation
Unit 4:	1. Advertising budget: Meaning, Types of advertising budgets 2. Measuring Effectiveness of Advertisement. Ethics in advertising.
Reference Books: 1. Integrated Marketing Communication and Advertising, Prof. Subhashini Naikar, Himalaya publication 2. Marketing Communication, Olujimi Kayode 1st edition, 2014 bookboon.com 3. Foundations of Advertising - Theory and Practice by S.A. Chunawalla Himalaya publication	
Suggested Research Journal : 1. The Journal of Marketing 2. Journal of Marketing Communications 3. Journal of Advertising 4. International journal of advertising 5. International Journal of Internet Marketing and Advertising	

MBA Through Online Mode M.B.A.-II SEM-III ELECTIVE - MARKETING MANAGEMENT PAPER III CONSUMER BEHAVIOUR	
Course Outcomes	1. To have insight of consumer behavior psychology 2. To understand different buying influences 3. To know the organizational buying behaviour 4. To able to compare and contrast the individual buying behavior and organizational buying behaviour
Syllabus Contents:	
Unit 1	Introduction – Meaning and Definition of consumer behavior- Scope and significance to study the consumer behavior- Participants in individual buying -Buying process- Consumer behavior Model concept, Traditional and Modern behavior models, Basic factors influences the consumer behavior- Demographic, Technological, Economic, Social and cultural and Political and Legal and Natural environment analysis of business environment to determine the demand understand changing individual buying behavior to design the Marketing Mix.
Unit 2	Individual Determinants of Consumer behavior- Personal demographic factors, Psychological factors- Perception, perceptual process and perceptual distortion, Learning- elements influences in individual buying, Personality- concept, different types of personality, How it determines individual buying behavior. Self-concept or Self-image- role in consumer buying behavior, Attitude-concept and relationship between attitude and individual buying behavior, Factors involved in attitude formation, Motivation- concept, How need and goals determines the individual buying behavior. Social Class- concept, role of social class in individual buying behavior, Group Dynamics- Types of Groups relevant to consumer behavior, Family lifecycle, Friendship Group, Formal social clubs, Shopping Friends groups, Work group, Reference group.
Unit 3	Industrial \ Organizational Buying Behavior – Concept, Participants in Industrial/ organizational buying- Industrial buying process- Industrial buying behavior models- Factors influencing industrial buying behavior, Compare and contrast between individual buying behavior and industrial buying behavior. Impact of cross culture and Legal and political influence in organization/industrial buying behavior. Online Consumer Behaviour

Unit 4	Brand Concept- Functions of Branding, Advantages and disadvantages of branding to the marketer, Types of Brands, Process of Brand building, Concept of Brand Management, Brand Management Process, Managing Brands-Selecting brand name and logo, brand extension, brand rejuvenation, rebranding, co-branding, brand re-launch, brand proliferation, celebrity endorsement, brand development through acquisition and takeover, brand portfolio restructuring. Brand Positioning. Brand Equity concept, Measuring of brand equity, Brand equity models.
Reference Books: 1. Marketing Management-Ramswamy V. S., Namakumari S., Macmillan Publishers India Ltd. 2. Leon Schiffman, Leslie Lazar Kanuk, 'Consumer Behaviour'. 3. Suja Nair, Consumer Behaviour, Himalay publishing house Pvt Ltd. 4. Consumer Behavior - Leon Schiffman, Leslie Lazar Kanuk, Pearson Prentice Hall 5. Consumer behavior – Loudon, Della Bitta, Tata McGraw Hill 6. Industrial Marketing - Hill, Alexander, Cross, Prentice Hall 7. Marketing Management- Kotler, Keller, Koshy, Jha, Prentice Hall. 8. Consumer Behaviour with DDB Lifestyle Study Data Disk(Consumer Behaviour: Building Marketing Strategy)- Delbert Hawkins, David Mothersbaugh, Published by McGraw-Hill Education. 2009, 11th edition. 9. Keller, Kevin Lane, 'Strategic Brand Management Building, Measuring, and Managing Brand Equity: Prentice Hall. 1998 10. Brand Management the Indian Experience: Vikas Publishing, House Pvt, Ltd., 1999.	
Suggested Additional Readings: (if web source then provide url) https://scholar.google.co.in/scholar?q=Consumer+behaviour+psychology+journals&hl=en&as_sdt=0&as_vis=1&oi=scholar	
Suggested Research Journal : Indian Journal of Marketing, Journal of Consumer Marketing, Journal of Marketing Analytics by Springer. Vikalp – IIM Ahmedabad	
Suggested case studies: Watch Consumer Behaviour Study, by Vivek Bindra, on https://www.youtube.com/watch?v=iWuYUhSHXHg	

MBA Through Online Mode M.B.A.-II SEM-III ELECTIVE II- FINANCIAL MANAGEMENT PAPER I INDIAN FINANCIAL SYSTEM	
Course Outcome:	Students of this course will be able to: 1. To Describe the Role of Financial Sector in the economy. 2. To recognize availability of various financial markets 3. To analyze the Trading Mechanism in Stock Exchanges. 4. To define different financial services.
Syllabus Contents:	
Unit1	Introduction to Indian Financial System: -Development of Financial System in India, Structure of Indian Financial System, Role of Financial Sector in the economy, Institutional framework of Indian Financial System-Regulatory, Intermediaries, Non-Intermediaries Institutions, Reserve Bank of India (RBI), Securities Exchange Board of India (SEBI) and Insurance Regulatory and Development Authority (IRDA)- their Objectives and Functions
Unit 2	Financial Markets: a) Capital Market: concept, types of markets-primary and secondary, Instruments in Capital Market-Shares, stocks, Debentures, bonds b) Money Market: concept, Instruments in Money market, Recent Developments, Composition of Money market c) Commodities and Derivatives Market: concept, Transactions-Swaps, Options and Futures d) Foreign Exchange Market: concept and characteristics
Unit 3	Stock Exchanges: a) Stock Exchanges in India: National Stock Exchange (NSE), Bombay Stock Exchange (BSE), Over the Counter Exchange of India (OTCE) and other exchanges, SENSEX NIFTY b) Trading Mechanism in Stock Exchanges: Demat, National Exchange of Automated Trading (NEAT), BSE Online Trading (BOLT), Screen based trading. c) Depositories: Role of depositories, National Securities Depository Limited (NSDL) and Central Depository Services Limited (CDSL), Eligibility and functions of Depository Participants (DPs).
Unit 4	Financial Services: a) Venture Capital, Merchant Banking, Hire Purchase and Leasing and Credit Rating. b) Insurance: concept and importance, types of insurance- Life Insurance and General Insurance, Privatization and Globalization of Insurance in India. c) NBFCs: Classification of NBFCs, Prudential Norms for NBFCs, Role of NBFCs in asset financing, Asset Reconstruction Companies, Implications of SARFAESI Act.

Reference Books:

1. Bhole, L.M.and Mahakud Jitendra (2009), Financial Institutions and Markets, Tata McGraw-Hill Education Private Limited, New Delhi.
2. Khan, M.Y. (2013), Indian Financial System, Tata McGraw-Hill Education Private Limited, New Delhi.
3. Pathak, Bharati (2014), Indian Financial System, Dorling Kindersley India Pvt.Ltd. Lic
4. Bhalla, V.K. (2004), Management of Financial Services, Anmol Publishing House
5. Ramesh Babu (2009), Indian Financial System, Himalaya Publishing House, Mumbai.
6. Gordon, E. and Natarajan A. (2015), Financial Markets and Institutions, Himalaya Publishing House, Mumbai.
7. Desai, Vasant (2010), Financial Markets and Financial Services, Himalaya Publishing House, Mumbai.

Suggested Additional Reading:

1. www.finmin.nic.in
2. www.sebi.gov.in
3. www.rbi.org.in

Suggested Research Journals:

1. Indian Journal of Finance
2. RBI Bulletin
3. Finance India
4. Journal of Banking and Finance
5. Banking and Finance Review

MBA Through Online Mode M.B.A.-II SEM-III ELECTIVE II- FINANCIAL MANAGEMENT PAPER- II FINACIAL DECISION ANALYSIS	
Course Outcomes	Students of this course will be able to: 1. To evaluate capital structure and dividend decision 2. To manage cash flows by using techniques of cash management. 3. To summarize objectives and provisions of receivables management 4. To differentiate between Merger and Acquisition 5. To analyze the financial management of sick units.
Syllabus Contents	
Unit 1	Capital Structure Decision and Dividend Decision <u>Capital Structure Decision</u>: Financial leverage, Operating leverages, Indifference points. Approaches to appropriate Capital structure- EBIT-EPS Analysis, Guidelines for capital structure planning, Capital structure policies in practice. <u>Dividend Decision</u>: Determinants of Dividend Policy, Dividend policy in practice. Bonus Shares- regulation, reasons, deciding bonus ratio. Bonus shares and stock splits.
Unit 2	Cash Management and Receivables Management <u>Cash Management</u>- Motives of holding cash, Factors determining the cash balance, Managing the Cash Flow, Cash Budget, Cash Management models – The Baumol Model, The Miller-Orr Model. <u>Receivables Management</u> - Concept, Costs - Collection Cost, Capital Cost, Delinquency cost, Default Cost. Benefits of Management of Receivables, Credit Policies- Evaluating the Debtor; Credit Analysis and Decision, Credit Terms and Collection Policies. Control of Account Receivables, Heuristic Approach
Unit 3	Corporate Restructuring a) Reasons for merger, Mechanics of Merger, Cost Benefits of Merger, Terms of Merger, Takeovers, Joint ventures, Managing and acquisition, b) Portfolio Restructuring, Financial Restructuring, Organizational Restructuring.
Unit 4	Financial Management in Sick Units- Definition of Sickness, Causes of Sickness, Symptoms of sickness, Prediction of Sickness, Revival of a Sick Units.
Note:	Problems should be covered on following topics only. a) Capital structure Decisions b) Cash Management and Receivables Management c) Merger and Takeover

Reference Books

1. Prasanna Chandra, Financial Management- Mc Graw Hill Publication
2. Van Horne, Financial Management- James C., Prentice-Hall Publication
3. Bhalla V.K. Financial Management and Policy- Anmol Publication
4. Khan and Jain ,Financial Management-Mc Graw Hill Publication
5. I.M.Pandey ,Financial Management-Pearson Publication
6. R.P.Rustagi , Principles of Financial Management-Taxmann Publications Pvt Ltd.
7. V.K.Bhalla, Working Capital Management- S Chand Publication
8. Scherr F.C., Working Capital Management- Prentice Hall Publication
9. Rachana Jawa Mergers, Acquisition and Corporate Restructuring in India_ procedure and Case Studies.
10. Das Ranjan-Corporate Restructuring -Mcgraw Hill Education.
11. Rabi Narayan Kar and Minakshi -Taxmann's Merger, Acquisition and Corporate Restructuring-Strategies and Practices-, Taxmann Publications (P.) Ltd.

MBA Through Online Mode M.B.A.-II SEM-III ELECTIVE II- FINANCIAL MANAGEMENT PAPER-III PROJECT APPRISAL AND FINANCE	
Course Outcomes	Students of this course will be able to: 1. To understand concept of project management and techniques of project planning & monitoring. 2.To Equip the students with entrepreneurial skills like project formulation, valuation, monitoring and control etc. 3.To apply various methods to appraise a proposal to check the feasibility of Project 4.To acquaint the students with the decision-making skills to select the projects on various criteria
Syllabus Contents	
Unit 1	Project Planning Introduction to Projects; Nature of planning projects; Project Life Cycle; Identification of projects, Project manager roles and responsibilities, basics of quantitative techniques useful in project planning, preparation and contents of Detailed Project Report
Unit 2	Project Formulation and Appraisal Project Formulation Project identification, Project formulation and preparation : Market and Demand estimation, market survey, demand forecasting. Cost of project, means of financing, estimates of cost, financial projections. Project Appraisal Criteria Payback period, ARR, NPVI, IRR and risk analysis
Unit 3	Process of Project Appraisal Technical, economic, financial, legal and social appraisal of the industrial projects. Implementation, Monitoring and Control of Projects Project scheduling, network techniques for resource, project management teams and coordination. Monitoring and post implementation, evaluation of the projects.
Unit 4	Regulatory Frameworks Governing Projects National Rehabilitation and Resettlement Policy (2007) - Social Impact mitigation; National Environmental Policy (2006) – Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP), PPP based projects, guidelines for formulation of project using PPP mode, standard procedure of formulating tender contract documents for the government and multilateral organizations.

Reference Books

- Prasanna Chandra, Project : Preparation, Appraisal, Budgeting and Implementation, Tata McGraw-Hill
- Nagendra P. Singh ,Emerging Trends in Entrepreneurship Development, Intercultural Foundation for Development Management Publisher
- D.K. Jain, Project Planning and Appraisal in Planned Economy, Uppal Publishing House
- M. Mohsin ,Project Planning and Control, Vikas Publication House
- R. Burke, Project Management: Planning and Control Techniques, John *Wiley* & Sons Ltd.

MBA Through Online Mode MBA -II SEM-III ELCETIVE – III-HUMAN RESOUCRE MANAGEMENT PAPER-I HUMAN RESOURCE PLANNING AND PROCUREMENT	
Course Outcomes	Students will be able to; 1. Explain the theoretical foundations of key areas associated with Human Resource Planning in the organization. 2. Apply the HRP practices at various levels in industries or organizations. 3. Analyze the issues and strategies required to select the human resources.
Syllabus Contents:	
Unit 1	Human Resource Planning: Concept of HRP, Factors affecting HRP, Techniques of HRP -employee Forecasting – Trend analysis, Ratio Analysis, Scatter Plot, Computerized Forecasting, Delphi Method, Managerial Judgment, Supply forecasting. Job Analysis - Meaning, Purpose, Methods of Collecting Data, Process of Job analysis; Job design –Techniques of job design, Concepts of Job Enlargement and Job Enrichment
Unit 2	Procurement of Human Resource Recruitment – Meaning and Process; Factors affecting recruitment, Modern Techniques of Recruitment, Various sources of Recruitments, Online Recruitment portal, Challenges in Talent Hunting. Concept of Selection , difference between Recruitment and Selection, Selection Process Interview – Types of Interviews- Preliminary, Core and decision-making interview, Principles of Interviewing – Do’s and Don’ts, Closing the interview, Meaning, Importance of Induction Program – formal or informal, individual or collective, serial or disjunctive, Investiture or Disinvestiture, Requisites of effective programme. Placement – concept & process.
Unit 3	Internal Mobility & Employees Separation Internal Mobility: Promotion – Types Of Promotion; Promotion Policy; Transfer; Need, Types And Policies Demotion- Pros & Cons Of Demotion. Separations Policy- Retirement, Resignation, Retrenchment & Dismissal; Quality of Work Life, Employees Approaches towards Work Life Balance & work life integration
Unit 4	Changing environment of HRM – HRIS- Need, Advantages & Uses of HRIS. Competency Mapping - Concept, Competency Model Pyramid, Application of competency model into various HRM functions, benefits of using competency mapping model in organizations, Benefits of using competency based performance appraisal system.

Reference Books:

1. Personnel Management by Edwin Flippo.
2. Personnel & Human Resource Management – Text & Cases By P. SubbaRao.
3. Human Resource Management, Gary Dessler Dorling Kindersley Pvt Ltd.
4. Human Resource Management – An Experiential Approach by H. John Bernandin & Joyee E. A. Russell.
5. Human Resource Management- S. S. Khanka (S.Chand & Company Ltd. New Delhi)
6. Human Resource Management and Personnel Management – Aswathappa
7. Armstrong's Essential Human Resource Management Practice - A guide to people management, Michael Armstrong, Koganpage.

MBA Through Online Mode MBA -II SEM-III ELECTIVE - III- HUMAN RESOURCE MANAGEMENT PAPER-II HUMAN RESOURCE DEVELOPMENT	
Course Outcomes	Students will be able to; 1. Explain the theoretical foundations of key areas associated with HR development in the organization. 2. Apply the HRD practices at various levels in industries or organizations. 3. Analyze the issues and strategies required to select and develop human resources.
Syllabus Contents:	
Unit 1	Human Resource Development :Overview Concept, Scope, Features, Importance of HRD. Techniques of HRD, Limitations & Challenges of HRD , Relationship between HRM &HRD, Roles & Competency of HRD Professionals, HRD Intervention HRD process –Designing & Developing ,Implementing, Evaluating Effectiveness of HRD Program, HRD Audit, HRD Culture &Climate
Unit 2	Human Resource Training Development & Career Management Employees Training & Development –concept , needs, Training Methods – On the job and Off job Methods, E-Training – Computer Based training. Management Development -Needs and Importance of Management Development, Methods. Career Management – Concept, career anchors, career mechanism Succession planning
Unit 3	Performance Appraisal -Definition, Objectives, process, benefits of of performance appraisals, Methods of Performance Appraisal – Traditional and Modern Methods of performance appraisal Computerized & web – based performance appraisal, Problems & solutions in PA
Unit 4	HR Analytics:- Evolution of Business Analytics, Rise of HR Analytics, Levels of HR Analytics, Application of HR Metrics, HR Dashboard Creation by Using Excel, Reinforcement of HR strategy factor with HR Analytics:- workforce planning, Recruitment and Selection Analytics, Engagement analytics, predicting employee turnover, measuring employee performance
Note:	Case Studies on Each of the Aspects Mentioned in the Syllabus need to be discussed.

Reference Books-

1. P. L. Rao, International Human Resource Management – Text and Cases Excel Books
2. Jaffrey A Mello , Strategic HRM, Cengage Learning

3. Charles R. Greer, Strategic Human Resource Management, Pearson Education.
4. M.N Rudrabasavara, Global Human Growth Model, Himalaya Publications,
5. Peter Dowling and Denice Welch, International Human Resource Management, , Cengage Learning
- RajibLochanDhar, Strategic Human resource Management Excel Books New Delhi
6. Srivastava, R.M., International Strategic Management, Himalaya Pub., House, Mumbai.
7. Tony Edwards , International Human Resource Management, , Pearson Education

Suggested Additional Readings: (if web source then provide url)

1. <https://www.geektonight.com/international-human-resource-management/>
2. <https://www.aihr.com/blog/what-is-hr-analytics/>
3. <https://www.shrm.org/resourcesandtools/tools-and-samples/toolkits/pages/practicingstrategichumanresources.aspx>

Suggested Research Journal :

1. International Journal of Human Resource Management, Taylor & Francis
2. Journal of Human Resource Management
3. Journal of Service Research

MBA Through Online Mode MBA -II SEM-III ELECTIVE - III- HUMAN RESOURCE MANAGEMENT PAPER III COMPENSATION MANAGEMENT	
Course Outcomes	Students will be able to; 1. Gain insights of various conceptual aspects of Compensation and related laws to achieve organizational goals. 2. Evaluate the implication of Job Evaluation methods, incentives and fringe benefits 3. Design a compensation system and policy which is consistent, attracting and retaining high quality workforce in modern organization.
Syllabus Contents:	
Unit 1	Compensation Management: Wage and Salary Administration: Calculation of Wage, Salary, Prerequisites, Compensation Packages, Cost of Living Index and Dearness Allowance, Job Evaluation:- Major Decisions in Job Evaluation, Job Evaluation Methods, Competitive study and Compensation management
Unit 2	Incentives and Fringe Benefits:- Individual Incentives and organization wide incentives, Designing and operating incentives and deferred compensation plan, Managing Employee Benefits: Nature and types of benefits, employee
	benefits programs
Unit 3	Employee Contributions: Pay For Performance (PFP): Competency Based Pay, Skill based Pay, Team based pay, Gain and Profit sharing Designing PFP Plans, Merit Pay/Variable Pay. Code on wages 2019 Minimum Wages, Payment of Wages, Payment of Bonus.
Unit 4	Wage Determination: internal and external equity in compensation systems, wage administration in India: wage policy in India, wage boards: structure, scope and functions – Recent Pay Commissions. Executive compensation: - elements of executive compensation and its management, cafeteria compensation , Recent trends in compensation Management:- Restructure pay for remote working, Differentiate rewards for critical digital talent, Measure return-on-investment (ROI) on compensation spending, Golden parachute (VRS) compensation.
Note:	1. Case Studies on Each of the Aspects Mentioned in the Syllabus need to be discussed. 2. Video cases and Documentary Films relating to the syllabus to be exhibited in the class

Reference Books:

1. Strategic Compensation, Joseph J. Martocchio, 3rd Edition, Prentice Hall, 2004.
2. Compensation Management in Knowledge based world, Richard I. Anderson, 10th edition, Pearson Education.
3. Compensation Management, ErSoniShyam Singh, Excel Books.
4. Compensation, Milkovich & Newman, 9th edition, 2017, Irwin/McGraw-Hill.
5. Bashker D. Biswas, Compensation and Benefit Design, , FTPress, 2012.
6. Steven Balsam, An Introduction to Executive Compensation, Academic Press, 2002.
7. Srivastava S.C., Industrial Relations and Labour Laws, Vikas Publishing House Pvt. Ltd.,
8. Luis R. Gomez-Mejia & Steve Werner, Global compensation - Foundations and perspectives Routledge,
9. Richard I. Henderson, Compensation Management in a Knowledge-Based World, Pearson Education, 2009, 10th Edition.
10. B D Singh, Compensation And Reward Management, Excel Books, 2008
11. Tapomoy Deb, Compensation Management, Text and Cases, Excel Books, 2009, 1st Edition

Suggested Additional Readings: (if web source then provide url)

1. <https://www.toolbox.com/hr/performance-management/articles/what-is-performance-management/>
2. <https://www.hibob.com/hr-glossary/compensation-management-planning/>

Suggested Research Journal :

4. IOSR Journal of Humanities And Social Science
5. Indian Labour Journal
6. Journal of Human Resource Management
7. Journal of Business and Management

MBA Through Online Mode
MBA -II SEM-III
ELECTIVE-IV- PRODUCTION AND OPERATIONS MANAGEMENT
PAPER- I
OPERATIONS MANAGEMENT STRATEGIES

Course Outcomes	After studying this course students will be able to 1. Describe various Operations Management Strategies. 2. Create comprehensive product development framework. 3. Explain Decision Areas for Formation of operations strategy. 4. Formulate outline for project scheduling.
Syllabus Contents:	
Unit 1	Concept of Manufacturing and Operations Strategy : Operation strategies in global economy–Formation of operations strategy– Formulation & implementation of manufacturing policies – Building competitive advantage through manufacturing policy – Technology management and competitiveness
Unit 2	Product Development : Product Development-Production Process design -Product proven Design- Product life testing- Product designing – standardization and diversification.
Unit 3	Decision Areas: Structural decision areas: –Facilities management- Capacity planning –process technology Infrastructural Decision Areas: -Planning and Control–Quality- responsibilities and accountabilities in operations- Human factor in Production
Unit 4	Production system and project scheduling- Analysis of production system, planning for project production system, crashing, manpower planning through PERT, CPM – Utility data and time cost curves – Direct indirect cost, Optimum cost, and resources allocation and leveling – project programme review – Updated network – Activity based costing.
Reference Books: 1) Norman Gaither, Greg Fraizer, “Operations Management” Thomson Asia Pvt. Ltd.,Singapore 2) Chary S.N. “Production and Operations Management”, Tata McGraw Hill, NewDelhi. 3) Joseph S. Martin, “Production & Operations Management – An applied modern Approach” John Wiley and Sons (Asia) Pvt. Ltd., Singapore	
Suggested Research Journal : -International journal of operations & production management. -Journal of operations & strategic planning. -Journal of operations management.	
Suggested Case Studies: on Operations strategies in global economy, product development & designing, structural decision areas, project scheduling techniques.	

MBA Through Online Mode MBA -II SEM-III ELECTIVE-IV- PRODUCTION AND OPERATIONS MANAGEMENT PAPER- II PRODUCTION PLANNING AND CONTROL	
Course Outcomes	Students of this course will able to : 1. Understand objectives, functions and characteristics of PPC 2. Understand forecasting techniques of PPC 3. Explain routing ,scheduling and dispatching in PPC 4. Understand applications of computer in PPC
Syllabus contents-	
Unit-1	Introduction to production planning and control (PPC) -Objective, Meaning, characteristics, stages, functions and scope. Challenges of PPC, factors affecting PPC. Types of planning-job based, batch method, flow method, mass production method, process manufacturing method.
Unit-2	(A)Production planning System -Making the production plan, Process planning, manufacturing planning and control system. Role of PPC in manufacturing industry. (B)Forecasting -Importance of forecasting, types of forecasting and uses, forecasting techniques-qualitative and quantitative.
Unit-3	(A) Routing –Definition, procedure, route sheet, Bill of material, factors affecting routing procedure. Scheduling- definition, standard scheduling methods-job shop, flow shop, line balancing, aggregate planning, chase planning, expediting. (B) Dispatching - Activities of dispatching, dispatching procedure, follow up- definition, types of follow up.
Unit-4	Application of computer in PPC - Computer Aided Process planning (CAPP), Steps in CAPP, benefits of CAPP, ERP production planning module- objectives, features, benefits
Reference Books: 1.S.N.Chary,” Production and Operations Management” (4th edition) ,TMH 2. Samuel Eilon,” Elements of Production Planning &Controll”, Universal publishing corporation. 3.Baffa & Rakesh Sarin,” Modern Production & Operations management”,8th edition,John Wiley, 4.S.K.Sharma, Savita Sharma,” A course in Industrial Engineering and Operations Management”, TMH	
Suggested Research Journal- 1. Journal of production engineering research and development.-Springer 2.International Journal of Operations and Production Management-Emerald 3.Journal of Operations Management- Wiley online libraray	
Suggested case studies on- Production Planning, Forecasting, Computer applications in PPC	

MBA Through Online Mode
MBA -II SEM-III
ELECTIVE-IV- PRODUCTION AND OPERATIONS MANAGEMENT
PAPER- III
MATERIALS & INVENTORY MANAGEMENT

Course Outcomes:	Students of this course will be able to: 1. Describe various functions of materials management. 2. Formulate inventory planning with various aspects. 3. Implement various inventory control techniques. 4. Explain various other aspects of Materials Management
Syllabus Contents:	
Unit 1:	Introduction to Materials Management: Meaning, Objectives, functions, Importance of materials management, purchasing of material, 5R purchasing, Purchasing cycle, Vendor rating and development, Vendor managed inventory.
Unit 2:	Inventory Planning: Inventory planning-effect on service level, integration with sales forecasting. Purpose of Inventory, Inventory cost, Lot size & safety stock, Material requirement planning, Bill of Material, MRP records, Surplus management.
Unit 3:	Inventory Control: Inventory models - EOQ, Inventory Model with price discounts, Selective Inventory Control techniques – ABC, VED, HML, FSN, fixed period model
Unit 4:	Other aspects of Materials Management: Codification, standardization, material handling, stores management, location of Warehouses, Material Cost reduction techniques, Future of materials management, Challenges in materials management.
Reference Books: 1. Production and Inventory control handbook – Greene, James – H. 2. Production and Inventory control – Mc Leavey, Dennis W & Narasimhan SL 3. Manufacturing Planning and Control – Valimari T.E. 4. Materials Management – An Integrated Approach – Prentice Hall India, New Delhi – P. Gopalkrushnan & M. Sudarshan 5. Materials Management – Procedure, Text & Cases – Prentice Hall India – A. K. Dutta. 6. Production & Opn. Management – S.N. Chary – McGraw Hill Publication 7. Operations Management – Amol Gore, Robert Pannizolo – Cengage Learning 8. Materials and logistics Management – Prof. Shailesh Kasande 9. Materials and logistics Management – Dr. L. C. Jhamb 10. Materials Management – Mr. K. K. Ahuja.	

Suggested Additional Readings:

1. <https://quickbooks.intuit.com/Inventory/Solutions>
2. <https://www.manageengine.com/DesktopCentral/InventoryMgmt>
3. <https://www.goodfirms.co/blog/best-free-open>
4. <https://www.computerworld.com/article/3430223>

Suggested Research Journals:

1. International Journal of Supply Chain Management and Inventory Management.
2. International Journal of Inventory Research.
3. International Journal of Inventory Control and Management.
4. Production and Inventory Management Journal.

Suggested Case Studies:

1. [Inventory Management Amazon FBA - Million Dollar Case Study](#)
2. [Inventory Management Case Study - AB&R \(American Barcode](#)
3. [Case Studies of Successful Enterprise Resource Planning](#)
4. [Inventory / Warehouse Management Case Studies](#)

MBA Through Online Mode MBA -II SEMESTER -III ELECTIVE - V- INTERNATIONAL BUSINESS PAPER-I INTERNATIONAL BUSINESS ENVIRONMENT	
Course Outcomes	Students of this course will be able to: 1. Explain business expansion abroad and key issues related to their operations in other countries. 2. Compare and contrast cultures and societies globally using socioeconomic and cultural frameworks. 3. Develop an entry strategy into other markets recognizing the nature of institutions and forces governing the process of globalization.
Syllabus Contents:	
Unit 1	An overview of Business Environment ,Business Environment and Strategic Decisions in International Business , Economic Environment , Political and Regulatory environment, Demographic Environment, Social/Cultural Environment, Geographic Environment , Ethics and CSR in International Business.
Unit 2	Foreign Investments - Pattern, Structure and Effects. Theories of Foreign Direct Investment, Traditional and Modern Theories of FDI, Modes of FDI - Greenfield, Brownfield Investments, Mergers and Acquisitions, Motives of FDI, FDI Contrasted with FPI. Basics of Forex Market.
Unit 3	WTO, IMF, World Bank, UNCTAD Tariff and Non-Tariff Barriers. Balance of Payment Account: Concept and Significance of Balance of Payments, Current and Capital Account Components. Introduction to Basic Concept of IFRS.
Unit 4	Growing Concern for Ecology, Digitalization; Outsourcing and Global Value Chains. Labor and Other Environmental Issues, Impact of Pandemic COVID-19 on International Trade.
Reference Books: 1. Francis Cherunilam-International Business environment, Himalaya Publishing House 2. Anant K Sundaram and J Stewart Black-he International Business Environment, PHI New Delhi, Estern Economy Edition 3. Charles W L Hill and Arun Kumar Jain-International Business – Competing in the Global Marketplace , The Tata McGraw Hill publishing Company Ltd. 4. John D Daniels and Daniel P Sullivan- , International Business Environments and Operations, Pearson 5. K. Aswathappa-Essentials of Business Environment, Himalaya Publishing House	

MBA Through Online Mode MBA -II SEM-III ELECTIVE - V – INTERNATIONAL BUSINESS PAPER-II EXPORT AND IMPORT POLICY	
Course Outcomes	Students of this course will be able to: 1. Understand the export import procedure and documentation. 2. Demonstrate export and import process. 3. Illustrate Foreign Investment Policy.
Syllabus Contents:	
Unit 1	Introduction to Export and Import: Meaning and Basics of Export and Import, Licenses & Documentation, Selection of Products, Various Registration Authorities, Types of Export, General, EOU(Export Oriented Units), SEZ (Special Economic Zones), EH(Export Houses), TH (Trading Houses), SSTH (Super Star Trading Houses)
Unit 2	EXPORT: Selection of Importers, Pre-shipment and Post shipment Documentation, Certificate of Origin, Free Trade Agreements (FTAs) and Preferential Trade Agreements (PTAs), Importing Countries Rules of origin, Documents required as per the commodity and Country, Import Licenses. Overview of various export promotion schemes
Unit 3	IMPORT: Import Procedures, Selection of Exporters, Import of Samples, Trade Enquiry and Finalizing the Terms of Import, Project Import/EPCG, Import Licensing Policy, Custom Clearance of Imported Goods, Custom Duty Calculation, Import Documents - Import General Manifest (IGM), Bill of Entry and Other required documents as per Import Country Customs. Pre-shipment Inspection & Quality
Unit 4	Foreign Investment Policy: Direct Foreign Investment, Foreign Collaborations, Inter Government Loans, and Loans from international institutions and External Commercial Borrowings (ECB), FDI policy. Risks of Export and Import business and How to avoid those Risks.
Reference Books: 1. New Import Export Policy - Nabhi Publications 2. A Guide on Export Policy Procedure & Documentation– Mahajan 3. Foreign Trade & WTO- M.L.Narasaiah Discovery Publishing House, New Delhi. 4. Foreign Exchange Hard Book – H. P. Bhandari 5. International Business, K. Ashwatthapa, Himalaya Publication. 6. Export Import Management- Justin Paul, Rajiv Aserkar 7. Annual Report (Recent Years) Ministry of Commerce, Government of India 8. India Balance of Payments, RBI Bombay 9. Economic Survey Ministry of Finance Government of India. 10. EXIM Policy & Handbook of EXIM Procedure – VOL I & II	

Suggested Additional Readings:

1. <https://dgft.gov.in/sites/default/files/ft17-051217.pdf> (Foreign Trade Policy)
2. <http://www.pib.nic.in>
3. <https://www.eximbankindia.in/>
4. www.cbic.gov.in
5. <http://www.cbec.gov.in/>
6. <http://www.icegate.gov.in/>
7. <http://www.nacen.gov.in/>
8. <http://www.ltu.gov.in>
9. <https://cbec-easiest.gov.in/EST/>
10. <https://www.india.gov.in/>

Suggested Research Journal:

International Journal of Export Marketing

RET Academy for International Journals of Multidisciplinary Research (RAIJMR)

FOCUS: Journal of International Business

International Journal of Economics and Financial Issues

MBA Through Online Mode
MBA -II SEM-III
ELECTIVE - V- INTERNATIONAL BUSINESS

PAPER-III
CROSS CULTURAL MANAGEMENT

Course Outcomes	1. To understand Importance of cross-culture, Values, culture and styles of Management, communication in different cultures 2. To understand the implications of the globalization of business for effective management 3. Exhibit a high degree of cultural intelligence and cross-cultural communication skills applicable to the real world of business and travel 4. Acquire a sharper understand of their own culture and how it impacts their behavior in a multicultural setting 5. Interpret behavior, attitudes and communication styles of people from different cultures correctly 6. Deal with ambiguity in an ever-changing and unpredictable context that results from the globalization of business and people
	7. Exhibit a high degree of effectiveness when working in culturally diverse group
Syllabus Contents:	
Unit 1	Introduction to cross-cultural management , the globalization of business and people in the 21st century, Understanding culture and cultural differences around the globe, Key cultural values and concepts, how culture affects behavior. Culture and Organizations: Culture and corporate structures – Culture and Leadership -Culture and Strategy – Cultural change in Organizations- Culture and marketing – Cultural Diversity.
Unit 2	Developing cultural intelligence : Stages, process and supporting activities, National and global cultures explored, Decision-making models across cultures, Goals, motivation and ethics in decision-making, Culture and Communications: Business communication across cultures – Barriers to intercultural communication. Cross-cultural communication failures, the cross-cultural communication process, Verbal language, codes and conventions, Non-verbal communication.
Unit 3	Leadership across cultures : styles, expectations and management examples, culturally intelligent leadership in a globalized business world, Working in multi-cultural teams: concepts, processes and performance, culturally intelligent team management: skills and strategies. Multicultural Teamwork -Managing diversity in the global work culture. Synergetic team management. Strategies of cross-cultural interaction. Strategies of “cultural domination”, “cultural discrepancy”, “cultural compromise”, “cultural adaptation”, and “cultural synergy”.

Unit 4	Leadership and Culture -The process of leadership and interaction in a multicultural team. Key concepts of global leadership. Global leadership and the change in knowledge about cultural differences. The role of leadership in the change of the organizational culture. National culture knowledge management. The role of leadership in creating cultural synergy. Problems of global leadership. Negotiations and Culture. Conflict Behaviour and Culture-Conflict resolution.
Reference Books: 1. Marie-Joelle Browaeys and Roger Price: Understanding Cross-Cultural Management, Pearson, 2015. 2. David C.Thomas: Cross Cultural Management, 2/e, Sage Publications, 2014. 3. Nigel Holdon, Cross Cultural Management: Knowledge Management Perspective, Pentice Hall, 2012. 4. ParissaHaghirian: Multinational and Cross-Cultural Management, Routledge, 2012. 5. Richard Mead: International Management-Cross cultural Dimension, 3/e, Blackwell, 2015. 6. Jerome Dumetz -Cross-cultural management textbook: Lessons from the world leading experts in cross-cultural management, Create Space Independent Publishing Platform; Student edition (September 5, 2012), Oakland, USA 7. Beer, L. A. (2012). Essential Concepts of Cross-Cultural Management : Building on What We All Share (Vol. 1st ed). [New York, N.Y.] [222 East 46th Street, New York, NY 10017]: Business Expert Press. Retrieved from http://search.ebscohost.com/login.aspx?direct=true&site=eds-live&db=edsebk&AN=493190	

MBA Through Online Mode MBA -II SEM-III ELECTIVE-VI- ENTREPRENEURSHIP PAPER - I PROJECT PLANNING AND IMPLEMENTATION	
Course Outcomes	Students of this course will be able to: 1. Comprehend the concept and significance of project. 2. Understand management of functional dimensions of Project. 3. Analyze risk and opportunities involved in project management. 4. Apply feasibility test to the given project
Syllabus Contents:	
Unit 1:	A. Project: Nature, Classification, Project Cycle. B. Project Idea : Sources of idea generation; New product development process; Product planning and development strategy C. Project Formulation: Stages of project formulation; Risk and uncertainty in investment decisions; Project Profitability Projection. Project Design and Network Analysis: Importance of network analysis, PERT and CPM
Unit 2:	A. Marketing Management: Importance of marketing, Marketing segmentation;, Marketing Mix. B. Production Management : Plant location; Layout; Production design; inventory, control and quality control; material handling C. Human Resource Management : Job requirement, Human Resource Planning, Recruitment, Selection, Training and development; Remuneration D. Total Quality Management: Need, Importance and Process
Unit 3:	A. Financial management: Sources of Long term and short term finance; Venture Capital funding in India, Venture capitalfunding process B. Institutional Finance: Commercial Banks, Other financial institutions. C. Lease Financing and Hire Purchase: Advantages and disadvantages, difference. D. Taxation benefits Tax benefits and tax concessions
Unit 4:	A. Business Plan: Contents, formulation of business plan
	B. Planning commission's guidelines for formulating project report: C. Project Report: Contents of project report; Format of project report D. Preparation of Feasibility Report on innovative business planProcedure and documentations for establishment of new business enterprise

Reference Books:

1. Essentials of Entrepreneurship and Small Business Management; Thomas W. Zimmerer, Norman Scarborough; PHI
2. Entrepreneurship- New Venture Creation; David H. Holt; PHI
3. Entrepreneurship Development; Dr. S. S. Khanka; S. Chand
4. The Dynamics of Entrepreneurial Development and Management; Vasant Desai; HPH
5. Entrepreneurship; R.V. Badi and N. V. Badi; Vrinda Publications
6. Theories of Entrepreneurship; Vasant Desai; HPH

Suggested Additional Readings:

1. Entrepreneur
2. Journal of Entrepreneurship and innovation in emerging economics
3. Journal of business venturing

MBA Through Online Mode MBA -II SEM-III ELECTIVE-VI- ENTREPRENEURSHIP PAPER - II STARTUPS AND NEW VENTURE	
Course Outcomes	Students of this course will be able to: 1. Comprehend various structures of business enterprises. 2. Enable recognition and shaping of various opportunities for new venture. 3. Evaluate the role of different institutions providing a support system for new ventures. 4. Explore the challenges of starting new ventures. 5. Understand and develop a credible business plan for real life situations.
Syllabus Contents:	
Unit1	MSME (Micro Small and Medium Enterprises) - Meaning, definition, types. Rationale behind micro and small enterprises. Launch a Start-up- Opportunity creating, shaping, recognizing & seizing. Screening venture opportunities, gathering information and analyzing. Evaluating venture opportunities develop start-up strategy. Feasibility analysis, risk taking ability Legal Issue and Other Formalities- Legal form of new venture. Entrepreneurial challenges as an individual and as an entrepreneur, both. Skills of managing business risk enhancing success.
Unit2	Types of Enterprises- Features, Advantages and limitations of Sole proprietorship, Partnership, Private Limited Company, Public Limited Company, Co- operatives, Joint Hindu Family business and Limited liability partnership, Franchising, Problems of MSME.
Unit3	Business Incubation Centre- Meaning, Role and importance, Centre for innovation, incubation and Entrepreneurship IIMA, NSRCEL, IIM Bangalore. Venture Feasibility Study- Market feasibility, financial feasibility, technical feasibility and organizational feasibility IPR- Concept, Significance of IP, Types of IP, IP Audit Totals Quality Management - Principles of TQM, Elements of TQM, Core concepts of TQM.
Unit4	Developing Team and Presenting Business Plan –Importance of team, forming and building team. Examining sample business plans and writing business plan. Understanding the investor’s perspective and presenting the business plan. Valuation of business plan and the elevator arena. E-Commerce: E- commerce; meaning, evolution, prospective areas. International business: Meaning, forms of business, types of documents.

Reference Books:

1. Satish Taneja, S. L. Gupta- Entrepreneurship Development New Venture Creation, Galgotia Publishing House
2. Anjan Raichaudhuri, Managing New Ventures Concepts and Cases, Prentice Hall International.
3. David H. Holt - Entrepreneurship New Venture Creation, 2010, Prentice-Hall Of India Pvt. Limited
4. Dr. S. S. Khanka - Entrepreneurship Development, 1999, S. Chand and Company Ltd. New Delhi,
5. H. Stevenson, H. Irving Grousbeck, M. J. Roberts and Amar V. Bhide- New Business Ventures and the Entrepreneur, 1999, 5th edition, Irwin/McGraw-Hill.
6. Kuratko F. Donald and Hornsby S. Jeffery (2009): New Ventures Management, Entrepreneur Road Map, and Pearson Education.
7. Jeffry A. Timmons, Stephen Spinelli -New Ventures Creation; Entrepreneurship for the 21st Century, 2009, McGraw Hill.
8. PoornimaCharantimath - Total Quality Management;3rd edition 2017 ; Pearson India Education Services Pvt. Ltd. Chennai
9. AlpanaTrehan – Entrepreneurship, 2011, Wiley India Pvt. Limited
10. Michael Roberts, Howard Stevenson, William Sahlman, Paul Marshall, Richard Hamermesh- Business Ventures and the Entrepreneur, 6th Edition, 2006, McGraw-Hill India.
11. O'Rourke S. James; Writing and presenting business plan, Cengage Learning, 2016
12. Richard Stutely- The Definitive Business Plan, 2nd Edition, 2002, FT Prentice Hall

MBA Through Online Mode
MBA -II SEM-III
ELECTIVE-VI- ENTREPRENEURSHIP
PAPER - III
INSTITUTIONAL SUPPORT AND VENTURE FUNDING

Course Outcomes	Students of this course will be able to: 1. Understand need for financial support for entrepreneurship development 2. Understand role of various financial and non-financial institutions 3. Analyze role of institutional support with international perspective 4. Understand the concept of venture funding
Syllabus Contents:	
Unit 1:	Introduction to Institution Finance: Need for Institutional Finance; Types of Industrial Finance-Short –term, Medium – term, Long – term Planning for Fixed and Working Capital; Source of Finance Estimation of Working Capital Sources of Working Capital
Unit 2:	Financial Institutions: Objectives, Roles and Functions of Financial Institutions at National and State level. SIDBI BANKS. Commercial Banks. RRBs. Co-op. banks STATE LEVEL: 1. SFCs 2. SIDCs 3. SIICs 4. SSIDCs OTHERS: 1. NABARD 2. NSIC 3 Rural Small Business Development Centre (RSBDC). Other Central or State Government funding schemes like-Start-up India, Stand Up India, Case study of any one national and international incubation center
Unit 3:	Institutional Support to Entrepreneurs: Institutional Support to Small Entrepreneurs 1) NSIC, 2) SIDO, 3) SSIB, 4) SSID, 5) SISIs, 6) DICs, 7) Industrial Estate, 8) Technical Consultancy organizations (TCOs), 9) Specialized Institution Central Institute of Tool Design , Hyderabad, Central Tool Room Training Centers, Central Institute of Hand Tool , Jaladpur, Institute for design of Electrical Measuring Instruments (IDEM), Mumbai, National Institution of Entrepreneurship and Small Business Development (NIESBUD), Hyderabad Case study of any one developing/ developed nation's institutional support system (Preferably members of OECD)
Unit 4:	Venture Capital: Meaning of Venture capital. Features of Venture Capital Investments, Methods of Venture Capital Financing, and types of VC funding. Venture capital Vs. Angel Investor and seed capital. VC vs Loans, VC vs. Crowd funding. Process of venture capital funding, Advantages and disadvantages of venture capital funds. Case study of any one International venture capital providing institutions

Reference Books:

- 1) Entrepreneurial Development by Dr. S. S. Khanka, S. Chand publication
- 2) Fundamentals of Entrepreneurship 2nd edition by H. Nandan.
- 3) Entrepreneurship and Small Business Management by Dr.(prof.) S. K. Sarangi.
- 4) Entrepreneurship Development by C. B. Gupta and N.P. Srinivas
- 5) Entrepreneurial Development by Manish Vohra, Animal publication.
- 6) Entrepreneurship Development by VasantDessai

Suggested Additional Readings: (if web source then provide url)

1. <https://www.oecd.org/industry/smes>

MBA Through Online Mode MBA -II SEM-III ELECTIVE-VII- BUSINESS ANALYTICS PAPER-I BUSINESS DATA MANAGEMENT	
Course Outcomes	Students of this course will be able to: 1. Understand DBMS and components of DBMS. 2. Explain the basic concepts of relational data model, entity-relationship model, relational database design, relational database Design for business applications. 3. Apply relational database theory to construct relation and various operations on relations. 4. Apply advanced SQL to fulfill an industry perspective.
Syllabus Contents:	
Unit 1	Introduction to DBMS Introduction to Databases and Transactions ,DBMS,, Need and advantages of DBMS, view of data, relational databases, database architecture, Applications of DBMS for business data management
Unit 2	Concept of RDBMS, Difference between DBMS and RDBMS, Features of RDBMS. Role and responsibilities of DBA. entity-relationship model, Relational Model ,RDBMS Terminology- Relation, Tuple, Cardinality, Attribute, Degree, Primary Key, Domain, Codd's Rules, Normalization
Unit 3	Structures Query Language Features of SQL, Data types, Classification of SQL Commands – DDL (create, alter, drop), DML (insert, update, delete), DCL (grant, revoke), TCL (rollback, commit). DQL(select) SQL Integrity Constraints-(Primary key, Foreign key, unique key, not null, default, check), group by and order by clause , SQL Operators-arithmetic, relational, Logical, Like, Between, IN operator ,SQL Functions- , String functions,. Arithmetic functions, Conversion Functions, Aggregate functions
Unit 4	Advanced SQL Join types - Inner Join, Outer Join, Cross Join and self-Join
	Sub-queries, Multiple sub queries, nesting of sub queries, sub queries in DML commands. Correlated queries, Indexes, Sequences. Views-Create View, Drop, View audits Advantages.
Reference Books:	
• Database System Concept – Henry korth and A. Silberschatz • Fundamentals of Database System- Ramez Elmasri, Shamkant B. Navathe(Pearson) • Database Management System- Raghu Ramkrishnan, Gehrke(McGraw Hill) • SQL, PL/SQL: The Programming Language- Ivan Bayross- (BPB) • Structured Query Language- by Osborne • SQL by Scott Ullman.	

MBA Through Online Mode MBA -II SEM-III ELECTIVE-VII - BUSINESS ANALYTICS PAPER-II BUSINESS ANALYTICS IN MANAGEMENT	
Course Outcomes	Students of this course will be able to: 1. Understand basics of business analytics 2. Describe business analytics in different functional areas of business 3. Create basic calculations including basic arithmetic calculations and aggregations. 4. Applications of Ms- excel for visualizations of business data.
Syllabus Contents:	
Unit 1	Business Analytics Basics: Definition of analytics, Evolution of analytics, Need of Analytics, Business analytics vs. business analysis, Business intelligence vs. Data Science, Data Analyst Vs Business Analyst, Types of Analytics, Tools for Analytics. Concept of insights. Importance of data in business analytics, Differences between data, information and knowledge and data maturity.
Unit 2	HR Analytics – Overview: Workforce Analytics: definition, evolution, function of Workforce analytics, Marketing Analytics: Overview, Segmentation Analytics, Analytics for Tracking Customer Growth Supply Chain Analytics: Overview, store operation analytics, vendor analytics, Production and quality analytics Financial Analytics: overview, Financial statement Analytics, analysis of bonds and long term financing, capital structure analysis,
Unit 3	Excel Basics: Introduction to spreadsheets, Office and Excel overview- Basic text and cell formatting ,Basic arithmetic calculation, Special paste , Freeze pane, Auto completion of series ,Sort and filter, Charts
Unit 4	Advanced Excel Capabilities: Conditional formatting, Importing data and text to columns, Functions o Mathematical o String o IF, AND, OR o Searching: match, search, vlookup, Dates, Misc\ Pivot tables, Recording and editing, Macros Excel Dashboard.

References:

1. The Practical Guide to HR Analytics: Using Data to Inform, Transform, and Empower HR Decisions, Shonna D. Waters, Valerie N. Streets, Lindsay Mcfarlane, Rachael Johnson-Murray
2. HR Analytics: Understanding Theories and Applications , Dipak Kumar Bhattacharyya
3. Marketing Analytics: Strategic Models and Metrics, Stephan Sorger
4. Cutting-edge Marketing Analytics: Real World Cases and Data Sets for Hands on Learning, Paul Farris, Rajkumar Venkatesan, and Ronald T. Wilcox
5. The New Science of Retailing: How Analytics are Transforming the Supply Chain and Improving Performance, Fisher and Raman
6. The Little Book on Big Data: Understand Retail Analytics Through Use Cases and Optimize Your Business, Mahogany Beckford
7. Financial Analytics with R: Building a Laptop Laboratory for Data Science Hardcover by Mark J. Bennett
8. Excel with Microsoft Excel: Comprehensive & Easy Guide to Learn Advanced MS Excel Paperback – 2019 by Naveen Mishra

MBA Through Online Mode MBA -II SEM-III ELECTIVE-VII - BUSINESS ANALYTICS PAPER-III DATA VISUALIZATION USING PYTHON	
Course Outcomes	Students of this course will be able to: 1. Understand the importance of data visualization. 2. Identify the process data manipulation in the Python 3. Analyze different data visualization tools available with Python. 4. Apply Matplotlib to create plots using Jupyter notebooks.
Syllabus Contents:	
Unit 1	Introduction to Python Importance of data visualization, Data Visualization Process, Data visualization formats, Introduction to Python: History, Features and Applications, Installing and Running Python Program, Modes: Interactive Mode, Script Mode, Exploring Jupyter Notebook: Overview of Jupyter Notebook, Setting up Jupyter Notebook, Running code in Jupyter Notebook.
Unit 2	Data Manipulation in Python A Modular Approach to Program Organization, Importing Modules, Packages in Python, Mathematical Computing with Python: NumPy and Ndarrrays, Ndarrray Properties, Data Manipulation with Pandas: Series in Pandas, Basic operations on Series, Data frames in Pandas, Reading Data stored in CSV Format.
Unit 3	Data Visualization in Python Introduction to Matplotlib, Data Visualization in Python using Matplotlib: Simple Line Plots, Simple Scatter Plots, Visualizing Errors, Density and Contour Plots, Histograms, Customizing Plot Legends, Customizing Colorbars, Multiple Subplots, Text and Annotation, Three-Dimensional Plotting in Matplotlib.
Unit 4	Advanced Visualization in Python Visualizing Graphs and Networks, Geographic Data with Basemap, Plotting data on Maps, Data Visualization with Seaborn: Introduction to Seaborn, Using Pandas for Seaborn, Plotting Bars with Seaborn, Understanding Aggregates, Plotting Aggregates, Box and Whisker Plots in Seaborn.
Reference Books: 1. Python Data Science Handbook, Jake Vander Plas, 2016, First edition, O'Reilly. 2. Data Visualization with Python, Mario Dobler, Tim Grobmann, 2019, Apress. 3. Python Data Visualization: An Easy Introduction to Data Visualization in Python with Matplotlip, Pandas, and Seaborn, 2019, Samuel Burns. 4. Data Visualization with Python for Beginners: Visualize Your Data using Pandas, Matplotlib and Seaborn, 2020, AI Publishing. 5. Practical Python Data Visualization, Ashwin Pajankar, 2021, First edition, Apress	

Practical List

1. Write a Python program to draw a line with suitable label in the x axis, y axis and a title using Matplotlib.
2. Write a Python program to plot two or more lines on same plot with suitable legends of each line using Matplotlib.
3. Write a Python program to plot two or more lines with different styles using Matplotlib.
4. Write a Python programming to display a bar chart of the popularity of programming Languages using Matplotlib. Use uniform color.
Sample data:
Programming languages: Java, Python, PHP, JavaScript, C#, C++
Popularity: 22.2, 17.6, 8.8, 8, 7.7, 6.7
5. Write a Python program to create bar plot from a Data Frame using Matplotlib.
Sample Data Frame:
a b c d e
2 4,8,5,7,6
4 2,3,4,2,6
6 4,7,4,7,8
8 2,6,4,8,6
10 2,4,3,3,2
6. Write a Python programming to create a pie chart of the popularity of programming Languages using Matplotlib.
Sample data:
Programming languages: Java, Python, PHP, JavaScript, C#, C++
Popularity: 22.2, 17.6, 8.8, 8, 7.7, 6.7
7. Write a Python programming to create a pie chart of gold medal achievements of five most successful countries in 2016 Summer Olympics using Matplotlib.

Read the data from a csv file.

Sample data:

medal.csv

country,gold_medal

United States,46

Great Britain,27

China,26

Russia,19

Germany,17

8. Write a Python program to draw a scatter plot comparing two subject marks of Mathematics and Science using Matplotlib. Use marks of 10 students.

Sample data:

Test Data:

math_marks = [88, 92, 80, 89, 100, 80, 60, 100, 80, 34]

science_marks = [35, 79, 79, 48, 100, 88, 32, 45, 20, 30]

marks_range = [10, 20, 30, 40, 50, 60, 70, 80, 90, 100]

9. Write a Python programming to display a bar chart of the popularity of programming Languages using Seaborn. Use uniform color.

Sample data:

Programming languages: Java, Python, PHP, JavaScript, C#, C++

Popularity: 22.2, 17.6, 8.8, 8, 7.7, 6.7

10. Write a Python programming to display a Box Plot for Forest Fires dataset.

	X	Y	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain	area
0	7	5	mar	fri	86.2	26.2	94.3	5.1	8.2	51	6.7	0.0	0.0
1	7	4	oct	tue	90.6	35.4	669.1	6.7	18.0	33	0.9	0.0	0.0
2	7	4	oct	sat	90.6	43.7	686.9	6.7	14.6	33	1.3	0.0	0.0
3	8	6	mar	fri	91.7	33.3	77.5	9.0	8.3	97	4.0	0.2	0.0
4	8	6	mar	sun	89.3	51.3	102.2	9.6	11.4	99	1.8	0.0	0.0

MBA Through Online Mode
MBA -II SEM-III
ELECTIVE – VIII - HOSPITALITY MANAGEMENT
PAPER-I
FUNDAMENTALS OF HOSPITALITY MANAGEMENT

Course Outcomes	After studying this course students will be able to- 1. Understand nature and characteristics of Hospitality Industry 2. Identify demand and supply in hospitality services 3. Able to analyze 7 P's of marketing of hospitality firm 4. Design blue print for hospitality firm 5. Evaluate services quality of hospitality organization
Syllabus Contents:	
Unit 1	Introduction to Hospitality Industry – Meaning and nature, Characteristics of Hospitality Industry, Growth and change in hospitality industry, Factors influencing hospitality industry, Major companies in Hospitality Industry in India, Career Prospects of Hospitality Industry
Unit 2	Service Management in Hospitality – Characteristics of services, 4 I's of services, Service design, Managing Demand and Supply in Hospitality-Service Capacity, Demand for services, Demand and Capacity Interfaces, Strategies to deal with imbalances
Unit 3	Marketing of Hospitality Services – STP for hospitality services, Consumer Behaviour, 7 P's of service marketing – Hospitality Product, Pricing, Place, Promotion, Process, People, Physical Evidence
Unit 4	Service Quality –Quality in Services, Service Quality and Quality Dimensions, Service Quality Model- Gaps Model, SERVQUAL Model of measuring service quality, Improving service quality- Root-Cause Analysis, Blueprinting
Reference Books: 1. Introduction to Hospitality Management - John Walker, Pearson Education. 2. Introduction to Management of Hospitality Industry - Clayton Barrows, Tom Powers, Denis Reynolds, Wiley Publications 3. Hospitality Management - JagmohanNegi, GauravManohar, University Science Press 4. Service Management – CengizHakserver, Barry Render, Pearson Education Inc. 5. Service Marketing – Harsh Verma, Pearson Education 6. Service Marketing: People, Technology, Strategy – Christoper L., Jochen W. Jayanta C., Pearson Education	

MBA Through Online Mode
MBA-II, SEM-III
ELECTIVE – VIII - HOSPITALITY MANAGEMENT
PAPER-II
HOTEL MANAGEMENT

Course Outcomes:	At the end of this course students will be able to – 1. Understand various types of hotels. 2. Demonstrate various front office functions. 3. Illustrate housekeeping functions 4. Apply standard housekeeping practices to deliver quality service to the customer. 5. Develop Banquet plan.
Syllabus Contents:	
Unit 1	Introduction to Hotel Industry - Types of hotels, Advantages and disadvantages of different types of hotels, Various departments of hotel, Organization of Hotel, Types of Hotel ownership, Modes of Hotel Management, Growth and Development of hotel industry in India
Unit 2	Front Office Operations - Significance and importance of the front office department, Types of Rooms and Criterion for charging room rents, Room pricing method, Reservation function, Front office functions, Interdepartmental coordination
Unit 3	Housekeeping in Hotel Operations: Importance and Functions of Housekeeping- Organization of Housekeeping Departments, Housekeeping SOP (Standard Operating Procedure) and Its Importance, Attributes of staff-Job Descriptions and Specifications, Skill Training and Coordination, Motivation and Employee Discipline, Standard Housekeeping Practices; Housekeeping as a business.
Unit 4	Food and Beverage Production and Service –Introduction to Food and beverage production, It's Importance and classification, Different sections of kitchen, Functions of Food and Beverage department, Types of restaurants, Menu planning, Concept of Banquet- types, functions and recent trends, Banquet planning, pricing

Reference Books:

1. Denney G. Rutherford, Hotel Management and Operations, 2 Ed., Wiley, 1994.
2. GRaghubalan, Hotel housekeeping Operations and Management, 3/e, Oxford University Press, 2015.
3. J M S Negi, Professional Hotel Management, S. Chand Publishing, 2014.
4. Jatashankar R. Tiwari, Hotel Front office and Operations management, Oxford University Press.
5. Peter Jones, Andrew Lockwood, Management of Hotel Operations, Cengage Learning EMEA, 2002.
6. Sudhir Andrews, Hotel House Keeping Training Manual, Tata McGraw Hill Publishers, New Delhi, Edition 2, 2005.
7. Sudhir Andrews, Introduction to Tourism and Hospitality Industry, Tata McGraw-Hill Education, 2007
8. Tarun Bansal, Hotel Facility Planning, Oxford University Press India, 2010
9. Bhakta Anutosh, Professional Hotel Front Office Management, Tata McGraw Hill Education Pvt. Ltd.

MBA Through Online Mode
MBA -II SEM-III
ELECTIVE – VIII - HOSPITALITY MANAGEMENT
PAPER-III
TOURISM MANAGEMENT

Course Outcomes	1. To Understand Various Tourism Trends 2. To Know the Tourism Development Policies of India 3. Role of Tourism Organization in Tourism Development. 4. To Manage Tourism Marketing Mix 5. To Develop Tourism Product
Syllabus Contents:	
Unit 1	Tourism Concept- Meaning and Definition, Need and Importance of Tourism development in India, Classification tourist, Types of tourism, Emerging Trends in Tourism. Management of Tourism Components- 5A's i.e. Accommodation Accessibility Amenities, Attractions and Activities and its impact on tourism. Compare and contrast inbound and outbound tourism
Unit 2	Tourism resources -natural, manmade, cultural, social, business and other. Indian Tourism Policies for Tourism Planning and Development. Role and importance of various Tourism Organization and its organizational structure - United Nations Educational, Scientific and Cultural Organization (UNESCO Indian Tourism Development Corporation(ITDC) , Indian Association of Tour Operators(IATO) and State tourism development corporations like MTDC.
Unit 3	Concept of Tourism management -Functions of Tourism management – Principles of Tourism Management, Transport System in tourism- Role of IRCTC for tourism promotion in India – Role of Travel Agency and Tour Operation in tourism development. Accommodation options in tourism -Information Technology and its application in tourism. Government laws in tourism management.
Unit 4	Concept of Tourism Marketing Mix , Marketing Mix Management, Developing the Tourism Product / Service, Product Decisions-Product Line, Product Mix, New Product Development, Branding Decisions, Pricing Decision - Pricing Considerations and Approaches in tourism product- Pricing Strategies, Problems in tourism marketing. Importance of social media marketing for tourism promotion. Changing Marketing trends in tourism industry in India and outside India. Role and Importance of People, Packaging, Partnership and Physical Evidence in Customer Satisfaction and to obtain new customer. Virtual Tourism – Concept, nature and scope

Reference Books:

1. Kamra, K. and Chand M.(2002), Basics of Tourism: Theory, Practice and Operation, Kanishka Publisher and Distributors, New Delhi
2. Stephen J., Tourism Management, Elsevier Limited, U.S.A.
3. Tourism Principles and Practice, Swain Sampad Kumar and Mishra Jitendra Mohan, published by Oxford University press, 2011
4. A.K.Bhatia, Tourism Development – Principles & Practices
5. JagmohanNegi, Tourism & Travel : Concepts &Principles
6. Rabindranath Seth and Om Gupta, Tourism in India-An overview, Published by Kalpaz publication, 2005, Vol.2
7. R.B. Gupta, Transportation Management
8. Philip T. Kotler, John T. Bowen, Marketing for Hospitality and Tourism
9. P.K.Mishra and J.K. Verma, Tourism in India-Potential, Problems and Prospects, New Century Publication 2018, 1st edition.

MBA–II - Sem–IV

MBA Through Online Mode M.B.A.-II SEM-IV ELECTIVE – I- MARKETING MANAGEMENT PAPER IV SERVICES MARKETING AND RETAIL MARKETING	
Course Outcomes	1. Explain the role of Extended Marketing Mix in Services 2. Analyze the significance of services marketing in the Indian and global economy 3. Evaluate Segmentation, Targeting & Positioning of Services in dynamic marketing environment
	4. Develop marketing mix for various services offering 5. Analyze the contemporary issues affecting Retail marketing decisions 6. Evaluate the effectiveness of Retail marketing mix used by different Retail formats 7. Formulate effective retail marketing strategy
Syllabus Contents:	
Unit 1	Services Marketing- An Insight into Emerging Sector of Economy Introduction, Nature & Definition of Services, Difference between goods & Services: Service-Continuum, Key classifications of the Services, Service Characteristics; Traditional elements of Services Mix; Need for extended marketing mix elements in Services. Need to study Service Marketing: Evolution of Services as Value Contributors, Service Sector beyond 2020 - Indian, Asian & Global perspectives
Unit 2	Role of Process, People& Physical Evidence in Services Marketing: Process - Service system - Service system, Services cape and Servuction system, Importance of Process in Services; Service Blueprint; Mapping the Process- Horizontally & Vertically; Variety in Service Process; Value addition in Process. People- The Key to a Service Marketing; People Dimensions in Services Marketing; Service Encounters; High- Contact & Low-Contact Services; Emotions in Service Situations; Service Profit Chain; Service Culture Physical Evidence- Contribution of Physical Evidence to the Service Understanding, Managing the Physical Evidence in Service Marketing
Unit 3	Introduction to Retailing: Meaning, Nature and Scope of Retailing, Evolution of Retailing, Global and Indian Scenario in retailing, Drivers of Retail change in India, Opportunities and Challenges in Retailing in India, Major Players nationally and internationally Importance and Functions of Retailing, Classification of Retailing, Product Retailing vs. Service Retailing. Online Retailing: Different platforms on online retailing, Significance of online retailing. Online Retailing strategy

Unit 4	Retail Marketing Strategies: Definition, scope, Importance of Market Segmentation in Retailing, Targeted Marketing Efforts, and Criteria for Effective Segmentation, Dimensions and Differentiation Strategies, Limitations of Market Segmentation. Retail Planning Process, Retail Models, Retail “EST” model. Formats of Retailing: Super markets, Hyper Markets, Departmental stores, Convenience store. Retail Institutions categorized by ownership: Independent, franchising, leased, vertical marketing system; Non- store Retailing. Store Location -Introduction, Types of Retail Stores Location, Factors Affecting Retail Location Decisions, Location & Site Evaluation, Site Selection. Store design and Retailing mix, store layout , circulation plan, Floor Space management Retail Merchandising, Understanding Merchandising Management, Activities of a Merchandiser. Planogram, Visual Merchandising
Reference Books: 1. Service Marketing Concepts Applications & Cases Mk Rampal, S Gupta, Galgotia Publishing Company 2. Services Marketing: People Technology Strategy, by WirtzJochen (Author), Lovelock Christopher (Author),	
ChatterjeeJayanta, Pearson Education; 8thedition (2017) 3. Services Marketing by Zeithaml, Bitner, Gremler&Pandit, TMGH, 4th Edition 4. Services Marketing: Global Edition by Christopher Lovelock (Author), Jochen Wirtz, Pearson Education; 7 Edition 5. Services Marketing- Valarie A Zeithaml, Mary Jo Bitner, Dwayne D. Gremler, Ajay Pandit, Mcgrawhill 6. Retailing Management by Swapna Pradhan, TMGH Publication 7. Retail Marketing Management by David Gilbert, Pearson Publication 8. Retail Business Management by R. Perumalsamy, Anmol Publications 9. Retailing Management by Arif Sheikh, Himalaya Publication 10. Retail Management by Gibson, Pearson Publication	
Suggested Additional Readings 1. https://www.youtube.com/watch?v=5MBEHY7Q0Ls 2. https://www.youtube.com/watch?v=xFvbgddv7C4 3. https://www.youtube.com/watch?v=1zYsQSJvbog 4. https://www.youtube.com/watch?v=MnsVEKEqVoM	

MBA Through Online Mode
M.B.A.-II SEM-IV
ELECTIVE - I- MARKETING MANAGEMENT
PAPER V
DIGITAL MARKETING

Course Outcomes	1. DEFINE various concepts related to Digital Marketing. 2. EXPLAIN the role of Face book, Google Ad words, YouTube and Email indigital marketing. 3. DESIGN digital media campaign using appropriate mix of Face book,Google Ad words, you tube and Email. 4. CREATE appropriate content for Face book, Google Ad words, YouTube and Email campaigns.
Syllabus Contents:	
Unit 1	Introduction to Digital Marketing – Objectives, Concept and process, Scope and importance of Digital Marketing today, Digital Marketing Landscape. Online Buying Behaviour and The Digital Consumers, For B2C and For B2B. Concepts of Digital Marketing - Basic Definitions and Terminology. Online + Offline Marketing for Business Growth and Development. Website Development: Concept, Process and implementation- WWW, Domains, Buying a Domain, Website Language & Technology, Core Objective of Website and Flow, One Page Website, Strategic SEO Overview, Google Analytics Tracking Code, Website Auditing, Designing Word press Website.
Unit 2	Face book Marketing Fundamentals: Profiles and Pages, Business Categories, Getting Assets Ready, Creating Face book Pages, Page Info and Settings, Face book Page Custom URL, Invite Page Likes, Featured Video, Pin Post and Highlights, Scheduling Posts, Face book Events, Reply and Message, Face book Insights Reports, Competitor's Face book Page, Ban User on Face book Page, Connect with
	Twitter. Face book Ad Campaigns: Organic v/s Paid, Face book Ad Structure, Setting Up Face book Ad Account,
Unit 3	SEO: Search Engine Optimization + Online Campaign management-Introduction to Google Analytics, Off-page SEO- Schema Markup, Page Speed Optimization, On-page SEO- Content Optimization, Keyword Optimization, Keyword Placement, Local Search Optimization, Localized Content Back link Creation. Online Ads- Introduction to Online Display Advertising, Digital Advertising Media, Buying Models of Online Ads, Related terms and concepts: Display Ads, Cost per 1000 impressions, Cost per Click (CPC), Cost per Lead (CPL), Cost per Acquisition (CPA). Google Adwords: Understanding Adwords, Google Ad Types, Pricing Models, PPC Cost Formula, Ad Page Rank, Billing and Payments, Adwords User Interface, Keyword Planning, Keywords Control.

Unit 4	YouTube Marketing: Video Flow, Google Pages for YouTube Channel, Verify Channel, Webmaster Tool –Adding Asset, Associated Website Linking, Paid YouTube Channel, Channel Analytics, Real Time Analytics, Case Studies. Email Marketing - Content Writing: Email Machine –The Strategy, Email Frequency, Triggers in Email using 4Ps, Sequence of Email Triggers, Email Example - Topic, Intro, Product, Auto-Responder Series, Triggering Auto – Responder Emails, Auto Responder Actions. Marketing Analytics, Marketing Automation
Note:	Students are expected to visit Facebook, YouTube, Google website.
Reference Books: 1. Google Adwords for Beginners: A Do-It-Yourself Guide to PPC Advertising, Cory Rabazinsky, 2. Email Persuasion: Captivate and Engage Your Audience, Build Authority and Generate More Sales With Email Marketing, Ian Brodie 3. Social Media Marketing All-In-One for Dummies, Jan Zimmerman and Deborah	
Suggested Additional Readings: www.google.com www.facebook.com www.youtube.com	

MBA Through Online Mode
M.B.A.-II SEM-IV
ELECTIVE - I- MARKETING MANAGEMENT
PAPER VI
CONTEMPORARY ISSUES IN MARKETING

Course Outcomes	1. Analyze the significance of global marketing. 2. Evaluate Segmentation, Targeting & Positioning of global marketing environment 3. Develop marketing mix for rural market offering 4. Formulate effective event management planning 5. Analyze the importance of green Marketing
Syllabus Contents:	
Unit 1	Global Marketing: Global Marketing Environment, Entry Strategies, Global market segmentation, targeting and Positioning, Global Marketing mix- Product Design Decisions, Geographic expansion strategic alternatives, New product in Global Market, Global Pricing Strategies, Global Pricing Policy alternatives, Channel Objectives and constraints, Channel Structure, Advertising decisions in Global marketing.
Unit 2	Event Marketing: Meaning and importance, STP for event marketing, Event Marketing Mix- Product, Price, Place, Promotion, Partnership, physical evidence, People, Programming, Applications of event marketing – Entertainment, Sports, Festivals, Social events, Corporate events
Unit 3	Rural Marketing: Introduction, Characteristics of rural marketing, Rural marketing mix challenges, Rural marketing environment, Rural consumer behavior, STP for Rural Markets, Rural Marketing mix strategies, Services Marketing in rural areas, ICT in Rural Areas, The future of Rural marketing in India. Marketing of Agricultural Inputs, agricultural products, nonfarm products
Unit 4	Green Marketing: What does it mean to be green? The environment and consumption, providing value via green marketing & communications, Consumption paradigms, Green Consumers, the new green marketing paradigm, Designing green products and Innovation, The role of the corporate spokesperson. Outreach and partnerships.
Reference Books: 1. Global Marketing Management – Keegan W.J., Bhargava N. K., Pearson Education 2. Global Marketing Management – Lee K., Carter S., Oxford University Press 3. Rural Marketing- C S G Krishnamacharyulu ,Lalitha Ramakrishnan, Pearson Education 4. Rural Marketing: Pradeep Kashyap, Siddhartha Raut ,Biztantra, New Delhi 5. Rural Marketing- T P Gopalaswamy, Vikas Publishing House New Delhi 6. Event Marketing – Preston C.A., John Wiley and Sons Inc., New Jersey 7. Event Marketing and Management – Gaur S., Saggere S. V., Vikas Publications 8. Green Marketing Management, Robert Dahlstrom. # South-Western College Pub; ISBN: 978-0324789140	

Suggested Additional Readings

"Greenwashing Report 2010" available for free download at

<http://sinsofgreenwashing.org/findings/greenwashing-report-2010/>.

"Green Marketing Myopia," available as a free download at

www.greenmarketing.com/files/articles/Stafford-MyopiaJune06.pdf

MBA Through Online Mode
M.B.A.-II SEM-IV
ELECTIVE II - FINANCIAL MANAGEMENT
PAPER-IV: INVESTMENT MANAGEMENT AND PORTFOLIO ANALYSIS

Course Outcomes	Students of this course will be able to: 1. Comprehend fundamental concepts of investment avenues. 2. Evaluate risk and return in different investment avenues. 3. Apply Fundamental and Technical analysis in portfolio management. 4. Prepare and evaluate the performance of different investment plans for individual.
Syllabus Content	
Unit-1	Introduction to the Investment Management a) Investment: Introduction, Concept, Objectives, Investment vs. Saving, Investment v/s speculation, Features of good Investment b) Avenues of Investment: <u>Non-marketable Fixed Income Avenues</u>- Bank Deposit, Fixed Deposit with companies, PPF scheme, PF, National Savings scheme, National Pension Scheme, National Savings Certificates and Ponzi schemes. <u>Marketable Fixed Income Avenues</u>- Preference Shares, FCD, NCD, Bonds, Govt. Floating Rate Savings Bonds, Gilt edged securities. <u>Other Avenues</u>- Equity Shares, Antiques and Art, Mutual Fund, Life Insurance, Real Estate, Sovereign Gold Bond Scheme, Sovereign Gold Bonds vs. Gold ETF, Digital Currency-Crypto c) Risk and Return: Meaning of Risk, Types of Risk, Systematic Risk and Unsystematic Risk, Measurement of systematic risk- Calculation of Risk and return, Expected Return of a portfolio, Calculation of portfolio Risk and return, risk-return trade off and precautions to minimize the risk. d) Investment Management Process: Review of investment avenues, Specification of investment objectives, Formulation investment strategy, Selection of securities/assets, Performance Evaluation.
Unit-2	Portfolio Analysis for investment a) Fundamental Analysis: Introduction, Economic Analysis, Industry Analysis and Company Analysis. b) Technical Analysis: Introduction, Technical vs. Fundamental Analysis, The Dow's Theory, Trends, Indicators, Indices and moving averages applied in Technical Analysis. c) Portfolio Analysis: Portfolio Selection, Feasible set of portfolio, efficient set of portfolio-The Efficient Frontier, Selection of optimal portfolio. Random Walk Theory-Assumptions of Random Walk Theory, Capital Asset Pricing Model(CAPM), Efficient Market Hypothesis

Unit-3	Debt and Mutual Fund as Avenues of Investment a) Debt Instruments: Risk in Debt, Innovations in Debt Securities, Structure of Interest Rates in India, Bank Fixed Deposits, Company Fixed Deposits, Introduction to Bond-Features, Bond Valuation, Bond Duration, Bond Yields, Current Yield, Yield to Maturity. b) Mutual Funds: Concept, Advantages of MF, Management of MF, Role of SEBI in MF, Types of Funds- Open-end vs. Close-end Funds, Mutual Fund Types based on Nature of Investment, Investment Objective and Risk Profile. Investment in MF- Investment in Units- Purchase and redemption of units, entry and exit load.
Unit-4	Personal Investment Management at various life cycle stages A) Investment Plans as per Life cycle Stages: a) Young unmarried stage b) Young Married stage: i) Where both partners work ii) If only one of the two partners earns in the family living c) Young Married with Children Stage, d) Married with Older Children Stage e) Pre- retirement Stage f) Retirement Stage. B) Income tax Provisions pertaining to investment plan
Reference Books: 1. Donald E. Fischer and Ronald J. Jordon, Security Analysis and Portfolio Management, Pearson India Education, New Delhi. 2. V.K. Bhalla , Investment Management, S. Chand Publication 3. Preeti Singh , Investment Management, Himalaya Publishing House, Mumbai. 4. Prasanna Chandra , Investment Analysis and Portfolio Management, Tata McGraw Hill, New Delhi, Mumbai. 5. Punithavathy Pandian, Securities Analysis and Portfolio Management, Vikas Publishing House, New Delhi. 6. N.J.Yasaswy, Personal Investment & Tax Planning, Vision Books Pvt. Ltd., New Delhi. Gerald Krefetz , The Basics of Investing ,Vision Books Pvt .Ltd., New Delhi. M. Ranganathan & R. Madhumathi, Investment Analysis and Portfolio Management, Pearson Education, New Delhi. 7. V.A. Adhvani, Security Analysis and Portfolio Management, Himalaya Publishing House 8. Suyash N.Bhatt, Security Analysis and Portfolio Management, Wiley 9. S. Kevin, Security Analysis and Portfolio Management. PHI Learning	

	MBA Through Online Mode M.B.A.-II SEM-IV ELECTIVE II- FINANCIAL MANAGEMENT PAPER V BEHAVIORAL FINANCE
Course Outcome	1. Understand the key terms associate with behavior finance and investment in financial markets & corporate finance. 2. Enumerate the various theories associated with behavior finance and parameters of investing in financial market. 3. Analyze the various behavioural finance factors related to corporate & individual investors. 4. Apply various investment strategies of effective investment in the financial market on the basis of various theories and factors of behavioural finance.
Syllabus Contents	
Unit1	Introduction: Meaning, nature, scope and history of Behavioural Finance; Comparison between Behavioral Finance and Standard Finance; Economics of Decision Making, Limitation of Efficient Market Hypothesis, Behavioral Financial Market Strategies, Behavioral Indicators, Psychology: Social, Behavioral, Physiological, Applied, Educational, Cognitive Psychology, Boom & Bust Cycles, Prospect Theory, Loss aversion theory,
Unit 2	Behavioral Biases theories : Heuristics, Overconfidence Bias, Representativeness, Anchoring and Adjustment bias, cognitive dissonance bias, availability bias, self-attribution bias, illusion of control bias, conservation bias, endowment bias, optimism bias, confirmation bias, Impact of bias on investors, External factors defining investors behavior, Fear and Greed in Financial Market, Finance & Emotions, Investors & types, Characteristics of extremely successful investor, Bubbles and systematic investors sentiments
Unit 3	Behavioral Corporate Finance: Introduction, Corporate decision making: Heuristic approach, prospect theory, market variables, herding effect, behavior of investor and inefficiency of market, Behavioral life cycle
Unit4	Emotions and Decision – Making: Experimental measurement of risk-related Measuring Risk, Emotional mechanisms in modulating risk-taking attitude – Neuro finance: Neural processes during financial decision making, Future of Neuro finance.
References Books- 1. Behavioral Finance: Psychology, Decision-Making, and Markets", by Ackert and Deaves. 2. Understanding Behavioral Finance by Ackert 3. The Psychology of Investing by John R. Nofsinger, Pearson Prentice Hall, (4th Edition) 4. What Investors Really Want - Learn the lessons of behavioral Finance, Meir Statman, McGraw-Hill 5. Behavioral Finance by Shuchita singh, Shilpa Bahl 6. Mihe Elvin, An Introduction to the psychology of Trading and Behavioural Finance, John Wiley.	

MBA Through Online Mode M.B.A.-II SEM-IV ELECTIVE II- FINANCIAL MANAGEMENT PAPER-VI INTERNATIONAL FINANCE	
Course Outcomes	Students of this course will be able to: 1. To discuss international financial markets and institutions. 2. To analyze Exchange Rate Mechanism 3. To appraise Export Import Financing Mechanism. 4. To enumerate Financial Management of Multinational Corporations
Syllabus Contents	
Unit 1	International Finance: a) Concept and Scope of International Finance, Foreign Exchange Reserve, Balance of payment current Account, Convertibility-Current Account and Capital Account. b) World Financial Markets and Institutions: International Banking, International Bond Market, International Equity Market, World Bank and International Monetary Fund (IMF).
Unit 2	Foreign Exchange Market: a) Foreign Exchange Market: Structure, Types of Transactions, Exchange Rate quotations and arbitrage between Exchange rate and Interest Rate b) Exchange Rate Mechanism: Determination of exchange rate in spot market and forward market, Factors influencing exchange rate, Theories of Exchange Rate Behavior. c) Risks in International Operations: E x c h a n g e rate risk, Interest rate risk and Political risk.
Unit 3	Import-Export Mechanism and Finance: a) Export Credit Guarantee Corporation, EXIM Bank, Foreign Exchange Dealers' Association of India. b) Export Import Financing Mechanism: Buyers' Credit, Suppliers 'Credit, Financing in foreign currency for exports and rupee finance c) Non-resident Accounts: Repatriable and Non-Repatriable, Significance of NRA
Unit 4	Financial Management of Multinational Corporations(MNCs): Foreign Direct Investment, Cost of Capital and Capital Structure of a MNC, Capital Budgeting and Cash Management of MNC, Country Risk Analysis, International Taxation, and Double Taxation Avoidance Agreements
Note:	Problems should be covered on following topics only. a) Exchange Rate quotations and arbitrage b) Determination of exchange rate in spot market and forward market. c) Techniques of covering risks d) Multinational Capital Budgeting

Reference Books:

1. Vij, Madhu (2006), International Financial Management, Excel Books, New Delhi.
2. Avadhani, V.A.(2013),International Financial Management, Himalaya Publishing House,Mumbai.
3. Apte,P.G.(2011),InternationalFinancialManagement,TataMcGraw-HillPvt.Ltd., New Delhi.
4. Rajwade, A.V.and Desai, H.G.(2014),Foreign Exchange International Finance and RiskManagement, Shroff Publishers and Distributors Pvt.Ltd., Mumbai.
5. Cowdell, Paul; Hyde;Watson,Alasdair(2000),Finance of International Trade, Financial WorldPublishing.
6. CheolD.Eun & Burce G. Resnick (2001), International Financial Management, IrwinMcGraw-Hill.
7. M.Y.Khan&P.K.Jain, Fifth Edition, Financial Management, Tata McGraw-Hill
8. P.K.Jain, Josette Peyrard & Surendra S. Yadav (2007), International Financial Management, Macmillan India Ltd.

MBA Through Online Mode MBA -II SEM-IV ELECTIVE - III - HUMAN RESOURCE MANAGEMENT PAPER-IV STRATEGIC HRM AND INTERNATIONAL PERSPECTIVES	
Course Outcomes	1. Identify the concept of cultural difference, HR Analytics, SHRM and IHRM 2. Assess the theories and methods which can be integrated into practical applications of IHRM and SHRM 3. Design metrics that measure financial impact
Syllabus Contents:	
Unit 1	Strategic Human Resource Management: - Human Resource Strategy (HRS): Concept, Approaches, 5P Models of SHRM, Efficient Utilization of Human Resources:- Dealing with employee shortage and employee surpluses. Strategic HRP – types, Strategies for Recruitment and Selection and strategies for retention of employees.
Unit 2	Strategies for HR Functions: Training & Development: Planning and strategizing training, creating learning organizations, linkage between business strategy and training, training evaluation, Kirk- Patrik model, ROI approach, cross cultural training, multi-skilling, succession planning. Managing career and aspirations: A SHRM approach.
Unit 3	Introduction to IHRM: - Definition, The drivers of internationalization of business. The different setting of International Human Resource Management. Development of IHRM. Difference between IHRM and Domestic HRM. Models of IHRM-Matching model, Harvard Model, Contextual Model, European Model.
Unit 4	Country Culture versus MNE Culture. Culture and employee management issues, impact of Country culture on IHRM. Multi-culturalism, Cultural pre-dispositions- Ethno-centralism –Polycentricism – Regio-centricism- Geocentricism. Geert Hofstede’s cultural dimensions, Communication, Leadership and Motivation across cultures, Issues in International Human Resource Planning, International Staffing: Linking staffing with stage of MNC
Note:	Case Studies on Each of the Aspects Mentioned in the Syllabus need to be discussed.

Reference Books:

10. P. L. Rao, International Human Resource Management – Text and Cases Excel Books
11. Jaffrey A Mello , Strategic HRM, Cengage Learning
12. Charles R. Greer, Strategic Human Resource Management, Pearson Education.
13. M.N Rudrabasavara, Global Human Growth Model, Himalaya Publications,
14. Peter Dowling and Denice Welch, International Human Resource Management, , Cengage Learning
15. RajibLochanDhar, Strategic Human resource Management Excel Books New Delhi
16. Srivastava, R.M., International Strategic Management, Himalaya Pub., House, Mumbai.
17. Tony Edwards , International Human Resource Management, , Pearson Education

Suggested Additional Readings: (if web source then provide url)

- 1.<https://www.geektonight.com/international-human-resource-management/>
- 2.<https://www.aihr.com/blog/what-is-hr-analytics/>
- 3.<https://www.shrm.org/resourcesandtools/tools-and-samples/toolkits/pages/practicingstrategichumanresources.aspx>

Suggested Research Journal :

- 1.International Journal of Human Resource Management, Taylor & Francis
- 2.Journal of Human Resource Management
- 3.Journal of Business and Management

MBA Through Online Mode MBA -II SEM-IV ELECTIVE - HUMAN RESOURCE MANAGEMENT PAPER-V INDUSTRIAL RELATIONS AND LABOUR LAWS	
Course Outcomes	Students will be able to 1. Discuss the concepts and theories to manage Industrial Relations and Labor Laws 2. Apply the concept of industrial relations, legal issues to the system in which it operates. 3. Solve industrial related legal issues used in the resolution of conflict. 4. Design the collective bargaining process, including preparation, negotiation, and settlement.
Syllabus Contents:	
Unit 1	INDUSTRIAL RELATIONS:- Background of Industrial Relations - objectives, factors affecting IR, participants of IR, importance of IR. Approaches to Industrial relations, system of IR in India - Historical perspective & post-independence period. Causes of Industrial Disputes, Prevention and Settlement of Industrial
Unit 2	TRADE UNION , GRIEVANCES AND DISCIPLINARY PROCEDURE Meaning, Objective, role and functions of the Trade Unions in Modern Industrial Society of India, Grievance - Meaning and forms, sources of grievance, Grievance procedures, model grievance procedure. Disciplinary procedure
Unit 3	COLLECTIVE BARGAINING AND NEGOTIATION Collective Bargaining: Definition, Meaning, Nature, essential conditions for the success of collective bargaining, functions of collective bargaining, importance of Collective Bargaining, collective bargaining process, prerequisites for collective bargaining, implementation and administration of agreements. Forms of Workers Participation in Management
Unit 4	LABOUR LAWS IN INDIA – introduction to different codes The code on social security 2020 Industrial Relation code 2020 Occupational Safety, Health and working conditions code 2020
Reference Books: 1. ArunMonappa, Industrial Relations, Tata McGraw Hill Publishing Company Ltd. 2. Dhyani S.N., Industrial Relations Systems, PrintwellPublishers 3. John Fossum, Labour Relations, Development, Structure, Process, McGraw HillEducation 4. Mamoria C.B, Dynamics of Industrial relations, HimalayaPublishing House	

MBA Through Online Mode MBA -II SEM-IV ELECTIVE - III -HUMA RESOURCE MANAGEMENT PAPER VI ORGANIZATIONAL CHANGE AND ORGANISATIONAL DEVELOPMENT	
Course Outcomes	Students will be able to; 1. Insights of various conceptual aspects of Organizational Change & Organizational Development 2. Evaluate the process Organizational Development 3. Apply the OD interventions in industry or organizations.
Syllabus Contents:	
Unit 1	Introduction to Organizational Change & OD Meaning of Organizational Change & organizational development, history of OD, Theories of planned change, types of change, competencies of an effective OD practioner
Unit 2	Process of OD: Entering & contracting, diagnosing, collecting, analyzing & feedback diagnostic information, designing interventions, managing change, evaluating & institutionalizing OD
Unit 3	OD Interventions in HR Human process interventions – interpersonal & group process approaches, organization process approaches Techno-structural Interventions – restructuring Organizations, employee involvement, work design HR interventions – Performance Management, Talent Management, Workforce diversity & Wellness Strategic change Interventions – Transformational change, continuous change, trans organizational change
Unit 4	Special applications of OD – OD for economic, ecological & social outcomes OD in Non-industrial settings – Health care, school system, public sector and family owned business Future directions in OD – trends within OD
Reference Books: 1. Organization Development and Change – Thomas G. Cummings and Christopher G. Worley, Cengage Publication, 10th edition 2. Organizational Behaviour, Text & Cases – Kavita Singh, Vikas Publications, 3rd edition 3. Organizational Behaviour – Hellriegel& Slocum & Woodman, South – Western Thomsan learning publication, 9th edition.	

MBA Through Online Mode MBA -II SEM-IV ELECTIVE-IV- PRODUCTION AND OPERATIONS MANAGEMENT PAPER- IV SUPPLY CHAIN MANAGEMENT	
Course Outcomes	Students of this course will be able to: 1. Describe the key concepts and structure of Supply Chain Management and the – driving forces in contemporary Supply Chain Management. 2. Identify the various flows in real world supply chains. 3. Compare and contrast push and pull strategies in Supply Chain Management. 4. Illustrate the relationship between Customer Value and Supply Chain Management and understand the current trends in SCM
Syllabus Contents:	
Unit 1:	Supply Chain Structure: Introduction to SCM, Shift from enterprise to network, Structure of a SC, Push based SC, pull based SC, Tradeoff between Push & Pull, identifying appropriate Push & Pull Strategy for SC, Commodity & cost centric SC, Agile SC. Flows in Supply Chain: Forward & Reverse SC, Product, Services, Information, Funds, Demand, and Forecast flows in Upstream & Downstream direction.
Unit 2:	Total Supply Chain Management: Changing business landscape – driving forces: Shift from Operations to Services, Impact of globalization & technological revolution, Shift from linear SC to collaborative networks, power shifts in the SC- demands for flexibility of partnerships, core competencies, growth in outsourcing, Increased complexity of processes. Customer Value: Empowered consumer, Customer focused Marketing & SC service outputs, customer service – availability, operational performance, reliability. Customer satisfaction – customer expectations, enhancing customer satisfactions, limitations of customer satisfaction. Customer success – achieving customer success, value added services, customer value requirement mapping, CRM.
Unit 3:	SCM Building blocks: Overview of customer focus & demand, resources & capacity management, procurement & supplier focus, inventory management, operations management, distribution management in SCM. Key Operational Aspects in SC, Creating the Lean SC – JIT Purchasing, JIT Transportation and JIT Production. Kanban, VMI.
Unit 4:	Current Trends in SCM: Current trends in Warehousing, IT/Digitization in SCM, AI, ML, IOT Application in SCM, Sustainability in SCM, Cloud Technology in SCM etc.

Reference Books: Supply Chain & Logistics Management, Bowersox, Closs & Cooper, Tata McGraw Hill Designing & Managing the SC – Concepts, Strategies & Case studies, Levi, Kaminsky et. al., Tata McGraw Hill Supply Chain Management: Strategy Planning & Operations, Sunil Chopra, Peter Meindl, Pearson. Supply Chain Management Process, System & Practice, N.Chadrasedkaran, Oxford Total Supply Chain Management, Basu & Wright, Elsevier Logistics Management & Strategy, Harrison and van Hoek, Prentice Hall Supply Chain Management, Mentzer, Response Books. 8. Logistics Management: The Supply Chain Imperative, Vindo Sople, Pearson Education.
Suggested Research Journal : -Journal of Supply Chain Management - Wiley Online Library -Supply Chain Management Emerald Insight -International Journal of Integrated Supply Management
Suggested Case Studies: on Supply chain management, forces or factors affecting the supply chain management, recent trends in supply chain management etc.

MBA Through Online Mode
MBA -II SEM-IV
ELECTIVE-IV- PRODUCTION AND OPERATIONS MANAGEMENT
PAPER- V
GLOBAL OPERATIONS & LOGISTICS

Course Outcomes	Students of this course will be able to: 1. Describe various global operations & logistics strategies. 2. Formulate Supply Chain Network Design. 3. Explain Risk Management in global operations & logistics 4. Outline effective management of global operations & logistics.
Syllabus Contents:	
Unit 1:	Global Operations & Logistics Strategies: Global Logistics, Concepts, GOL Strategies, Strategic Role and strategies of Storage, warehousing, materials handling, Packaging, Inventory, Transport, Information and control, Reverse Logistic in logistics & supply chain management.
Unit 2:	Supply Chain Network Design Supply Chain Network Design: Concepts, Supply Chain Network process design: Procurement, Manufacturing, Finished good, factors influence the Supply Chain design network: Strategic, Technological, Macro economical, Designing Supply Chain Network, Network Design cost optimization
Unit 3:	Risk Management in Global Operations Operating exposure: Concept, Operating exposure to exchange rate risk and its management- Managing operating exposure-Use of operational flexibility to minimize operating exposure.
Unit 4:	Effective Management of Global Operations & Logistics Information management for global logistics – performance measurement & evaluation in global logistics – measuring performance in functional integration, organization structure for global logistics excellence.
Reference Books:	
1. Global Operations & Logistics (Text and Cases) by Phillippe-Pierre Dornier, Ricardo Ernst, Michel Fender &Panos Kouvelis. 2. Logistics Management by V.V.Sople, Pearson Publication 3. Sunil Chopra And Peter Meindl, “Supply Chain Management – Strategy Planning And Operation”, Pearson Education (Singapore) Pvt. Ltd., Indian Branch, Delhi. 4. Sunil Sharma, “Supply Chain Management”, Oxford University Press. 5. Donald J.Bowersox& David J. Closs “Logistical Management” The integrated supply Chain Process, Tata,Mc-grawhill Edition. 6. S.K. Bhattacharya, Logistics management, S.Chand publication. 7. John T. Mentzer, “Fundamentals Of Supply Chain Management (5th Edition2007)” Response Books.	

Suggested Research Journal :

1. International Journals of logistics research and applications
2. International Journals of logistics management
3. International Journal of Integrated Supply Management

Suggested Case Studies: on

Supply Chain Network Design, measuring performance in functional integration, organization structure for global logistics excellence.

MBA Through Online Mode MBA -II SEM-IV ELECTIVE-IV- PRODUCTION AND OPERATIONS MANAGEMENT PAPER- VI WORLD CLASS PRODUCTION MANAGEMENT	
Course Outcomes	Students of this course will be able to: 5. Understand the philosophy of World class manufacturing 6. Evaluate the competitiveness of manufacturing 7. Explain labour and HRD requirements in WCM 8. Understand the system and tools for world class manufacturing
Syllabus Contents:	
Unit 1:	World Class Manufacturing Environment Different manufacturing eras, Global business condition today, strategic decisions in manufacturing management, Emergence of information age, Global competitiveness and manufacturing excellence, problems in manufacturing industry. Concept, principles of world class manufacturing, Schonberger framework of WCM, Various models of WCM , framework of value added engineering
Unit 2:	System and Tools for World class manufacturing Role of IT in world class manufacturing, types of manufacturing automation, automated production system, group technology/cellular manufacturing. software systems for automation, automation issues, Product and process design tools, material processing and material handling tools, lean production tools, poke yoke
Unit 3:	Total Quality Management and Total Productive Maintenance Definition, Evolution and Stages of TQM, Principles of TQM, Tools of TQM, Quality management systems, introduction to ISO 9000, QS 9000 Definition of total productive maintenance, Pillars and activities in TPM, Role of employees in TPM, concept of reliability, maintainability, reliability improvement, maintainability improvement
Unit 4:	JIT and WCM Concept of JIT , Mechanism of JIT Production, Reducing machine breakdowns, Quality and JIT Production, continuous improvement techniques, implementing JIT Production , JIT in world class manufacturing HRM Dimensions in WCM- Morale, Teamwork, Cross Functional Teams, Work study methods

Reference Books:

- 1) Norman Gaither, Greg Fraizer, “Operations Management” Thomson Asia Pvt. Ltd., Singapore
- 2) Chary S.N. “Production and Operations Management”, Tata McGraw Hill, New Delhi.
- 3) Joseph S. Martin, “Production & Operations Management – An applied modern Approach” John Wiley and Sons (Asia) Pvt. Ltd., Singapore
- 4) Richard Schonberger, World class manufacturing, Free Press
- 5) Richard Schonberger, World class manufacturing – Next Decade , Free Press
- 6) Merck Szwejczewski, Malcolm Jones, Learning from World Class Manufacturers, Palgrave Macmillan
- 7) Joseph Helm, Manufacturing System – Foundation of World class Practice, National Academy Press

Suggested Research Journal :

- International journal of operations & production management.
- Journal of operations & strategic planning.
- Journal of operations management.
- Journal of Production Research and Management
- International Journal Of Production Research

Suggested Case Studies: world class manufacturing, total quality management, total productive maintenance, J

MBA Through Online Mode
MBA -II SEMESTER -IV
ELECTIVE - V – INTERNATIONAL BUSINESS
PAPER-IV
ISSUES IN INTERNATIONAL BUSINESS

Course Outcomes	Students of this course will be able to: 1. Understanding of International Logistics 2. Understanding role of International transportation. 3. Enhancing knowledge of supply chain management. 4. Creating awareness of Ethics and CSR at international business.
Syllabus Contents:	
Unit 1	International Logistics: -- Meaning and objectives, Make or buy Global sourcing, INCO TERMS, Logistical Packaging, Types of shipping, International laws related to logistics and transportation of goods, Financial processing and distribution channels.
Unit 2	International Transportation: -Importance of Transport in Global Logistics, Containerization, International Sea Transport, Air Transport, Road Transport and Multimode Transport, Characteristics of all Mode of Transport, Factors influencing Mode and Carrier Selection decision. Role of Shipping Lines, Freight Forwarder, Custom House Agent. Vessel details How to select FF and CHA, CHA License, Containers – Types, Standard Dimension
Unit 3	International Supply Chain Management: -Planning the Global Supply Chain, Risk Management in the Global Logistics, Measuring the Logistic Cost and Performance, Travel Times, Country Sea Ports, Air Ports. Free Trade Zone and their Impact on Supply Chain Management. Customs and Regulations, Trade Documentation.
Unit 4	Ethics and CSR in International Business :- Business ethics, Social responsibility of Business, Environmental issues, labour issues, TRIPS & TRIMS, Trademark and Copy Rights, Intellectual property rights laws and impact on developing countries. Other Agreements on Goods and Services
Reference Books: 1. International Business – Text and Cases by Dr. P. SubbaRao, Himalaya Publishing House, Delhi. 2. International Business by K. Aswathappa, Tata McGraw Hill Education Private Limited, New Delhi 3. International business – Text and Cases by Francis Cherunilam. PHI Learning Pvt.Ltd. New Delhi. 4. International Business by Justin Paul. PHI Learning Pvt. Ltd, New Delhi. 5. International Business by Rakesh Mohan Joshi, Oxford Publication. 6. International Logistics: The management of International Trade Operations- Pierre A.David 7. International Logistics: Global Supply Chain Management- Douglas Long- Southern Maryland Books. 8. Global Supply Chain Management and International Logistics- Alan E.Branch	

Suggested Additional Readings: web sources-FEMA Act, Hedging of Currency, World Bank, EEFC, FDI, FII

Suggested Research Journals :

1. Asian Journals of Shipping and Logistics
2. Asia Pacific Journals of Marketing and Logistics
3. International Journals of Shipping and Transport Logistics
4. International Review of Retail, Distribution and Consumer Research
5. International Trade Journals
6. International Journals of Business Governance and Ethics
7. International Journals of Business Performance and Supply Chain Modeling

MBA Through Online Mode
MBA -II SEMESTER-IV
ELECTIVE - V– INTERNATIONAL BUSINESS
PAPER-V
INTERNATIONAL MARKETING

Course Outcomes	1. Student will able to understand the concept of international marketing. 2. Students will learn the market entry strategies. 3. Students will understand, how to take international product, pricing, and promotion and distribution decisions.
Syllabus Contents:	
Unit 1	Introduction to international marketing Internationalization stages, international marketing decisions, scope of marketing Indian products abroad, driving and restraining forces. Market selection. Market selection process, determinants of market selection, market profiling, market segment selection
Unit 2	Market entry strategies. Licensing and franchising, exporting, contract manufacturing, turn key contracts, fully owned manufacturing facilities, joint ventures, mergers and acquisitions, strategic alliances. International organization. Built in export department , separate export department, export sales subsidiary, international division, global organization
Unit 3	Market coverage strategies. Concentrated marketing strategy, niche marketing, market segmentation and differentiated marketing strategy International Product decisions. Product decisions, product, product mix, product life cycle, new product development, branding, packaging and labeling, business environment and product strategies, product communication strategies.
Unit 4	International pricing. Exporter's cost, pricing objectives, factors affecting pricing, pricing methods/approaches, transfer pricing, dumping, steps in pricing, retrograde pricing, export price structure, export price quotations and inco terms, information requirements for pricing, International distribution. International channel system, direct exports, indirect exports, types of intermediaries. Marketing environment and distribution strategies. International logistics, International promotion. Marketing environment and promotion strategies, major decisions in international marketing communications, communication mix, role of export promotion organizations, trade fairs and exhibitions, personnel selling in international marketing, Problems in international marketing communication.

Reference Books:

1. International Marketing (text and cases), Francis Cherunilam , Himalaya Publishing House
2. International Marketing, Analysis and strategy, SakOnkvisit and John J. Shaw by Routledge publication
3. International Marketing Within And BeyondVisegrad Borders, Elena Horská et al. by WYDAWNICTWO EPISTEME publication.

Suggested Research Journal:

1. *Journal of International Marketing*
2. *The International Journal of Research in Marketing*
3. *Journal of Global Marketing*
4. *International Marketing Review*

MBA Through Online Mode
MBA -II SEMESTER -IV
ELECTIVE - V–INTERNATIONAL BUSINESS
PAPER-VI
INTERNATIONAL BUSINESS NEGOTIATIONS

Course Outcomes	Students of this course will be able to: 1. Effectively prepare to any negotiations; 2. Find and use an effective leverage in negotiations 3. Elaborating the plan of the negotiation game 4. Correctly analyze the negotiations outcome
Syllabus Contents:	
Unit 1	Introduction to Negotiations: Alternative Negotiation Strategies (Cooperation vs. Competition, and Various Intermediate Approaches). Defining and Quantifying your Interests and Objectives. Defining Goals and Limits. Basic Factors Affecting Negotiation. Classification of Negotiator Types. Ideal Negotiator: a Set of Qualities. Personal Power. Understanding the Limits of Your Negotiating Authority.
Unit 2	Preparation for Negotiation: Public Speaking and Persuasion skills. Disputing Technique. Presenting Information. Using Visual Aid. Building Argument. Using Rhetorical Questions. Emphasizing and High-lighting Key Points. Controlling the discussion. Negotiating Games/Techniques. Perception of the Opponent. Art of Listening to Hear. Skills of a Good Listener. Verbal and Non-Verbal Communication. Preparing to Negotiate. The Preliminary Stage. The Information Stage.
Unit 3	Implementing the Negotiations: Question-Answer Skills. Important Factors: Time, Place, Authority, Participants etc. The Competitive/Distributive Stage. Psychological Entrapment. Tension Between Principals and Agents. The Pros and Cons of Using an Agent. Tacit and Overt Advising. Expectations. Tension Between Empathy and Assertiveness. The Ability to Exploit an Inequality and Uneveled Playing Field. The Ability to Fish Out and Protect Sensitive Information. The Ability to Be Believable and to Spot the Bluff. The Ability to Strike the Right Balance in Competing and Compromise. Post Negotiation Assessment
Unit 4	International Negotiations: Negotiation Ethics. Multilateral Negotiations. Coalitions. Devising a Constructive Concession Pattern. Control of Emotions of Both Sides. “Pause” Knob. Mechanisms for Dealing with Difficult Issues and Negotiators. Separating Factual Differences/Disagreements from Emotional. Playing several games at the same time. Combining Negotiations and litigation. Russian realities of negotiating procedure. Closing of the Deal. The Closing Stage. The Cooperative/Integrative Stage. Drafting Definitive Documentation. Importance of Due Diligence.

Reference Books:

1. **R. Fisher, W. Uri with B. Patton, GETTING TO YES**, Penguin Books, ISBN 0 14 01.5735 2
2. **William Uri, GETTING PAST NO**, Negotiating Your Way From Confrontation to Cooperation, Bentam Books, ISBN 0-553-37151-2, 200 p., available in PDF.
3. **Michael Wheeler**, Harvard Business School. **The Art of Negotiation: How to Improvise Agreement in a Chaotic World**. Simon & Schuster, 2013, ISBN 978-1-4516-9042-2, ISBN 978-1-4516-9042-6 (ebook);
4. **Peter B. Stark, IT'S NEGOTIABLE**, The How-To Handbook Of Win/Win Tactics, Jossey-Bass Pfeiffer, ISBN 0-88390-418-7, **pp. 53-113** (Fifty Tactical Techniques For Successful Negotiation), available in WORD.
5. **Peter D. Johnston, Negotiating with Giants**, Negotiation Press (Cambridge, Massachusetts), 2012, ISBN: 978-0-9809421-0-1;
6. **Gov. Bill Richardson, How to Sweet-Talk a Shark**, Rodale Books, 2013, ISBN-10: 1623360579, ISBN-13: 978-1623360573
7. **George Ross, Trump Style Negotiation: Powerful Strategies and Tactics for Mastering Every Deal**, ISBN -13 978-0-470-04586-2

Suggested Additional Readings: web sources-Business Resources, Harvard Law School, The Reagon Method, Game of Thrones.

Suggested Research Journals:

1. Asian Journals of Shipping and Logistics
2. Asia Pacific Journals of Marketing and Logistics
3. Journals of Business and Industrial Marketing
4. International Journal of Business and Management Studies
5. International Trade Journals
6. International Journals of Business Governance and Ethics
7. International Journals of Business Research.

MBA Through Online Mode MBA -II SEM-IV Elective-VI- Entrepreneurship Paper - IV Family Business Management	
Course Outcomes	Students of this course will be able to: 1. Understand the concept and dynamics of family business management 2. Analyze the challenges and dynamics of family business 3. Diagnose the principles of successful family business 4. Understand features of Joint Hindu Family Business
Syllabus Contents:	
Unit 1	1. Family Business: - Meaning, Types, Advantages and Disadvantages. 2. Family Business in India- A Historical Perspective 3. Business succession planning Case study of TATA group and Birla group with special focus on succession planning
Unit 2	1. The Family Dynamics Challenge 2. Role of genograms and family messages in helping us understand the family system 3. Family Emotional Intelligence 4. The family business interaction factors Any one case study of family business conflict
Unit 3	1. Diagnosing the family business 2. Enterprise sustainability 3. The 12 elements of strategic fit Case study of any one India's oldest family businesses in India
Unit 4	1. Evolution and Meaning of Joint Hindu Family business 2. Features of Joint Hindu Family Businesses 3. Advantages and Disadvantages of HUF Case study of any one firm registered under Hindu Undivided Family Act.
Reference Books: 1. Essentials of Entrepreneurship and Small Business Management; Thomas W. Zimmerer, Norman Scarborough; PHI 2. Entrepreneurship Development; Dr. S. S. Khanka; S. Chand 3. The Dynamics of Entrepreneurial Development and Management; Vasant Desai; HPH 4. Entrepreneurship; R.V. Badi and N. V. Badi; Vrinda Publications 5. Theories of Entrepreneurship; Vasant Desai; HPH	
Suggested Additional Readings: (if web source then provide url) 1. Business Legends; GeetaParimal 2. Stay Hungry Stay Foolish 3. www.entrepreneur.com	
Suggested Research Journal : Entrepreneur Journal of Entrepreneurship and innovation in emerging economics Journal of business venturing	

MBA Through Online Mode MBA -II SEM-IV ELECTIVE-VI- ENTREPRENEURSHIP PAPER - V VENTURE VALUATION AND ACCOUNTING	
Course Outcomes	Students of this course will be able to: 1. Understand the technique of venture valuation 2. Comprehend different joint venture models 3. Illustrate financial estimates 4. Apply financial projections to venture under consideration
Syllabus Contents:	
Unit 1:	Meaning – Need and significance of Venture Valuation Factors considered in Venture Valuation – Management, Market, Science and Technology, Financials and funding phase –Basics of Accounting – Journal, Ledger, Income Statements and Balance Sheets
Unit 2:	Joint Venture Accounts 1. Features – Accounting for joint ventures, Amalgamation, Absorption and External Reconstruction 2. Meaning – Types of Amalgamation – Purchase Consideration –Meaning and computation; 3. Valuation of shares; Methods of accounting for Amalgamation –Pooling of Interests Method and Purchase Method Model Journal entries and Ledger Accounts Simple problems only.
Unit 3:	Financial Estimates and Projections: 1. Cost of Project, Means of Finance, Estimates of Sales and productions 2. Cost of production- Working capital requirement and its financing, Profitability projections 3. Projected cash flow statement; Projected balance sheet Financial Modeling using spreadsheet.
Unit 4:	Sources of Finance 1. Internal and External Sources; Debt and Equity – Merits and Demerits 2. Initial Public Offering; Term Loan; Commercial Paper; Factoring 3. Raising capital in International Markets Approach of financial institutions while appraising venture; discuss format of any financial institute while appraising venture funding.
Reference Books: 1. Projects- Planning, Analysis, Selection, Financing, Implementation and Review; Prasanna Chandra; The McGrawHill Companies 2. Financial Management; I M Pandey; Vikas Publishing House PVT 3. Project Management; Clifford Gray and Erik W. Larson; The McGraw Hill Companies 4. Venture Capital and the Finance of Innovation; Andrew Metrick and Ayaka Yasuda; John Wiley and Sons.	
Suggested Additional Readings: (if web source then provide url) 1. Connect Dots	

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| <ol style="list-style-type: none">2. https://www.mca.gov.in/Ministry/notification/pdf/AS_14.pdf3. www.entrepreneur.com |
| Suggested Research Journal : Entrepreneur
Journal of Entrepreneurship and innovation in emerging economics
Journal of business venturing |

MBA Through Online Mode MBA -II SEM-IV ELECTIVE-VI- ENTREPRENEURSHIP PAPER - VI INNOVATION TECHNOLOGY MANAGEMENT	
Course Outcomes	Students of this course will be able to: 1 Understand the concept and dynamics of innovation 2 Analyze the challenges of innovation. 3 Diagnose the principles of innovation and creativity. 4 Illustrate process of innovation
Syllabus Contents:	
Unit 1:	Innovation -Meaning, Characteristics, Purpose/ goals of innovation, Sources of innovation, Types of innovation. Differences between invention and innovation, brain hardware and innovation process, Innovation and entrepreneurship, Sustainability and Innovation, Innovation Management Strategies. Theories of Innovation - Peter Drucker, Schumpeter, X- Efficiency Theory.
Unit 2:	Planning and organizing for innovation -Innovation Environment, Innovation Opportunities, Strategizing Innovation, Innovative Organization Structures
Unit 3:	Creative Thinking -What is Creativity, Components of Creativity, Creativity Process and Techniques for improving creativity process, Mechanism of Thinking. Barriers to creativity, Organization and personal factors to promote creativity. Principles and Techniques for Creative Ideas, Six Hat Thinking Exercises and Lateral Thinking Exercises. Methods and Tools for Creative Problem Solving.
Unit 4:	Managing Innovations:- Product Innovations, Process Innovations, Innovation Diffusion, Legal Aspects of Innovation ,innovation in services, protecting the innovation, commercializing the innovation
Reference Books: 1. Khandwalla, N. Pradip (2009). Lifelong Creativity – An Unending Quest, New Delhi: Tata McGrawHill 2. Drucker, F. Peter (2015). Innovation and Entrepreneurship, UK: Elsevier, John Wiley 3. Christensen, M. Clayton, Raynor, E. Michael (2003). The Innovators Solution, Harvard Business School Press Boston 4. De Bono, Edward (2008). Creativity Workout: 62 Exercises to unlock Your Most Creative Ideas, 2/e; Amorata Press	

5. De Bono, Edward (2015). Lateral Thinking: Creativity Step by Step, International Edition; Harper Perennial Publishers 6. Business Innovation in the 21st Century, Praveen Gupta, S Chand. 7. Entrepreneurship & Innovation Management (An Industry Perspective) by R. Gopal and Pradip Manjrekar, Excel Books 8. Paul Trott, Innovation Management and New Product Development, 4e, Pearson, 2018. 9. Vinnie Jauhari, Sudanshu Bhushan, Innovation Management, Oxford Higher Education, 2014. 10. Innovation Management, C.S.G. Krishnamacharyulu, R. Lalitha, Himalaya Publishing House, 2010. 11. A. Dale Timpe, Creativity, Jaico Publishing House, 2003. 12. Brian Clegg, Paul Birch, Creativity, Kogan Page, 2009.
Suggested Additional Readings: A. Business Legends; GeetaParimal B. Stay Hungry Stay Foolish C. www.entrepreneur.com
Suggested Research Journal : Journal of Entrepreneurship and innovation in emerging economics Journal of Innovation and Entrepreneurship International Journal of Entrepreneurship and Innovation Management

MBA Through Online Mode MBA -II SEM-IV ELECTIVE-VII - BUSINESS ANALYTICS PAPER-IV CLOUD COMPUTING AND VIRTUALIZATION	
Course Outcomes	Students of this course will be able to: 1. Defining different types and services of cloud computing. 2. Determining the role of virtualization in cloud computing. 3. Understanding security issues in cloud computing. 4. Describe risk assessment and management in cloud.
Syllabus Contents:	
Unit 1	Introduction to Cloud Computing : Introduction to cloud, Centralized and Distributed Computing, Layers and Types of Cloud, Desired Features of a Cloud, Cloud Architecture, Services and Applications: Infrastructure as a Service, Platform as a Service, Software as a Service. Benefits and Disadvantages of Cloud Computing,
Unit 2	Virtualization: Introduction to Virtualization Technologies, Load Balancing and Virtualization, Understanding Hyper visors, Understanding Machine Imaging, Porting Applications, Virtual Machines Provisioning and Manageability Virtual Machine Migration Services, Virtual Machine Provisioning and Migration in Action,
Unit 3	Cloud Management & Security: Administrating the Clouds, Cloud Management Products, Emerging Cloud Management Standards, Securing the Cloud, Securing Data, Establishing Identity and Presence, Storage Area Networks, Disaster Recovery in Cloud.
Unit 4	Risk Assessment & Management: Risk of Cloud computing and Related Cost ,Risk Assessment and Management , Risk of Vendor Lock- in, Risk of Loss of control over IT services, Risk of Poor Provisioning, Risk of Multi tenancy environment , Risk failure of cloud provider. Risk management framework,
Reference Books: 1. “Cloud Computing”, U S Pandey and Kavita Choudhary, S.Chand, 1st edition, 2014 2. “Cloud Computing Bible”, Sosinsky B., Wiley India ISBN 13: 9788126529803. 3. “Cloud Computing: Principles and Paradigm”, Buyya R., Broberg J., Goscinski A., John Wiley & Sons ISBN NO: 81–7758– 575-4 4. “Cloud Computing – A practical Approach”, Velte T., Velte A., Elsenpeter R., Tata McGrawHill. 5. “Cloud Computing with Security”, NareshKumarSehgal, Springer, 2019 6. “Cloud Computing Black Book”, KailashJayaswal, JagannathKallakurchi, Donald J. Houde, D. Deven Shah, DreamTech Press,2014	

MBA Through Online Mode
MBA -II SEM-IV
ELECTIVE-VII - BUSINESS ANALYTICS
PAPER-V
BUSINESS ANALYTICS USING R

Course Outcomes	Students of this course will be able to: 1. Understand basics of programming and R. 2. Install and configure software necessary for data analytics 3. Make use of various functions and control statements. 4. Analyze data graphically by creating a variety of plots using the appropriate visualization tools of R.
Syllabus Contents:	
Unit 1	Programming Fundamentals and Overview of R: Introduction, Algorithm, Flowchart, Programming Languages, History and Overview of R, Basic features of R, R Resources, Limitations of R
Unit 2	R Environment R Installation, Getting started with R interface, Basic Syntax, R Data Types, Variables, Objects, Attributes, Vectors, Matrices, Lists, Factors, Operators, Getting data into R, Data Frames, R Environment
Unit 3	Control Statements and Functions Manage Data Frames with R Packages, Decision Making, Control Structures – If Else, Looping Statements – For Loop, While Loop, Functions, Loop Functions, Argument Matching, Develop R Scripts, Dates and Times, Data Interfaces, Removing NA Values
Unit 4	Data Visualization Introduction, Data Visualization using R packages, Visualizing Distributions, Plots for Data Visualization, Basic Statistical Analysis, Model Basics, Primary R Functions, R objects for Statistical modeling, Model building, Visualizing Models
Reference Books: 1. R for Business Analytics, A Ohri 2. Hadley Wickham, Garrett Golemund, R for Data Science: Import, Tidy, Transform, Visualize, and Model Data, O'Reilly Media; 1 edition 3. Murray Aitkin, Brian Francis, John Hinde, and Ross Darnell, Statistical Modelling in R, Oxford University Press; 1 edition, 2009 4. Statistical data analysis explained: applied environmental statistics with R, Clemens Reimann. Chichester: JohnWiley and Sons 5. Data science in R: a case studies approach to computational reasoning and problem solving, Deborah Nolan. Boca Raton: CRC Press	

MBA Through Online Mode
MBA -II SEM-IV
ELECTIVE-VII - BUSINESS ANALYTICS
PAPER-VI
BUSINESS FORECASTING

Course Outcomes	Students of this course will be able to: 1. Understand business forecasting 2. Explain qualitative methods of business forecasting 3. Illustrate quantitative methods of business forecasting 4. Demonstrate statistical tools for business forecasting 5. Use statistical tools for business forecasting
Syllabus Contents:	
Unit 1	Concepts: Definition, Objectives, Principles of forecast, Collection of data, Types of Forecasting: General Business Forecasting, Financial Forecasting, Accounting Forecasting, Demand Forecasting, Sales Forecasting and Capital Forecasting. Parameters to choice of forecasting methods, Advantages of Business Forecasting, Limitations of Business Forecasting.
Unit 2	Qualitative Methods of Business Forecasting: Grass Roots, Market Research, Panel Consensus, Historical Analogy, Market surveys, sales force opinion, Life cycle analysis, Nominal group testing, Delphi method, Executive opinion.
Unit 3	Quantitative Methods of Business Forecasting: Intrinsic and Extrinsic – Average Demand, Time Series Analysis: Simple Moving Average, Weighted Moving average, Exponential smoothing, Naïve Method; Seasonal Index, Regression analysis, Box Jenkins Technique
Unit 4	Statistical Tools for Business Forecasting: Factor Analysis, Cluster Analysis, Logistics Regression analysis, Conjoint Analysis. Forecast Accuracy: Concept, Factors affecting accuracy of forecast, Monitoring of Forecast Accuracy, Forecast Errors, and Forecast Accuracy Metrics. Assessing Forecast Quality. Case studies related to business forecasting.

Reference Books: 1. Basic econometrics – Gujarati D. N., 4th International Ed., McGraw Hill, Singapore. 2. Business Statistics – Hooda R. P. 3. Business Statistics – Sharma J K 4. Basics of Supply Chain Management –Study Guide for APICS, CPIM Course Certification Course of Institute of Manufacturing Resource Management of India. 5. Business Forecasting- John E. Hanke, Dean Wicheren 6. Econometric Models and Economic Forecasts - Pindyck, R. S., and D. L., Rubinfeld, McGraw Hill, New York. 7. Forecasting: in Business and Economics – Granger C. W. J. 8. Forecasting Methods and Applications- Makridakis, S., S. C., Wheelwright and V. E. McGee, John Wiley & Sons, New York. 9. Future Ready: How to Master Business Forecasting- Steve Morlidge Methods and Techniques of Business Forecasting, Butler, W. F., Prentice-hall, Inc., New Jersey. 10. Practical Business Forecasting - Michael K. E., Wiley.	

MBA Through Online Mode
MBA-II, SEM-IV
ELECTIVE – VIII - HOSPITALITY MANAGEMENT
PAPER-IV
TRAVEL AGENCY AND TOUR OPERATIONS MANAGEMENT

Course Outcomes:	After studying this course students will be able to 1. Identify the future trends in travel agency. 2. Manage employees in a travel business. 3. Understand scope in tour and travel business. 4. Know the governments' rules and policies. 5. Develop tour package
Syllabus Contents:	
Unit1	Travel Trade - Historical Perspectives - Emergence of Incredible India - Types of Tour Operators - Wholesale and Retail Travel Agency business- Linkages and Integration with the Principal Service Providers - the Changing Scenario of Travel Trade.
Unit2	Travel Agency - Definition, Concept, Origin of Travel Agency, Development of Travel agency Business. Functions and Organizational structure of travel agency. Approval of Travel agency – Rules of IATA, Dept. of Tourism , Govt. of India (DOT)
Unit3	Tour Operations Management - Different functions of a travel agent, Services of Travel Agents – Liaisoning, Counseling, Organizing & Distributing, Functions of Travel Agents – Itinerary planning, reservations, hotel booking, and car rental services.
Unit4	Itinerary Planning - Importance, Types of Itinerary -Resources and Steps for Itinerary Planning - Tour Formulation and Designing Process. Tour Packaging - Importance, Components, Classifications of Tour Packages. Costing - Types of costs – Components of it- cost sheet Preparation - Tour pricing - Calculation of tour price – Pricing strategies

Reference Books:

1. Mohinder Chand, Travel Agency Management, Anmol Publications Pvt. Limited, 2009
2. Sudhir Andrews, Introduction to Tourism and Hospitality Industry, Tata McGraw-Hill Education, 2007
3. JagmohanNegi, Travel Agency and Tour Operation -Concepts and Principles, Kanishka Publishers, Distributors, 2006
4. Dennis L. Foster, The Business of Travel - Agency Operations and Administration, Glencoe Division, Macmillan/McGraw-Hill, 2011
5. SunetraRoday, ArchanaBiwal, Joshi Vandana, Tourism Operations and Management, Oxford University Press, 2009
6. Ralph G. Phillips, Susan Webster, Group Travel Operating Procedures, Van Nostrand Reinhold Company, 1993
7. Chuck Y. Gee, James C. Makens, Dexter J. L. Choy, The Travel Industry, Van Nostrand Reinhold Publication, 2011
8. Holloway, J.C. (2002), The Business Of Tourism, Prentice Hall, London, pp.220- 279.
9. Roday. S, Biwal. A & Joshi. V. (2009), Tourism Operations And Management, Oxford University Press, New Delhi, pp-164-296.
10. Goeldner, R & Ritchie. B (2010), Tourism, Principles, Practices And Philosophies, John Wiley & Sons, London.

MBA Through Online Mode
MBA-II, SEM-IV
ELECTIVE – VIII - HOSPITALITY MANAGEMENT
PAPER-V
CUSTOMER RELATIONSHIP MANAGEMENT

Course Outcomes	Students of this course will be able to: 1. Understand the significance of CRM 2. Envisage important technological tools in CRM 3. Develop e- CRM strategy 4. Understand Role of CRM in various operational areas 5. Evaluate the role of CRM in different service sectors
Syllabus Contents:	
Unit 1:	Fundamentals of Customer Relationship Management: A. Relationship Management- Theoretical perspective of relationship management., Evolution of relationship marketing, Issues in Relationship Marketing B. CRM: Meaning and definition and importance of CRM; Types of CRM; CRM Cycle Basic Concepts: Attributes of CRM, Strategic issues in Relationship Marketing, CRM Success factors
Unit 2:	Technological Tools for CRM: A. Data Mining for CRM: CRM and Data Mining; level of data mining operations; Data mining task; Tools and Techniques B. E-CRM: Meaning, The six E's of e CRM; e CRM strategy alignment Defining CRM Requirement: Selecting a CRM tool; Determining CRM requirements; Defining the functions of CRM; Identifying technological requirements
Unit 3:	Operational CRM A. Sales and CRM: Role of CRM in Sales, Sales force automation B. Marketing automation: Concept of marketing automation; some applications of marketing automation. Business Network and CRM: Role of CRM in network marketing, Concept of Business Network management
Unit 4:	CRM in services A. Relevance of CRM in Hospital Service B. CRM in banking and financial services C. Relevance of CRM of Hospital services D. CRM in Insurance Sector
Reference Books: 1. Customer Relationship Management; P.P. Singh, N. Jinender Kumar; Regal Publication 2. Customer Relationship Management; William G Zikmund, Raymond McLeod, JR., Faye W. Gilbert; Wily India PHI 3. Customer Relationship Management; Dr. Jaspreet Kaur Bhasin; Dreamtech 4. Customer Relationship Management, Emerging Concept, Tools and Application; Jagdish Sheth, Atul Parvatiyar, G Shainesh; Tata McGraw Hill Education Pvt. Ltd.	

MBA Through Online Mode
MBA-II, SEM-IV
ELECTIVE – VIII - HOSPITALITY MANAGEMENT
PAPER-VI
EVENT MANAGEMENT

Course Outcomes:	After studying this course students will be able to - 1. Understand the concept and importance of Event Management. 2. Analyze the process of strategic marketing and the need for strategic marketing for events
	3. Analyze the requirement of clients and do the planning of activity. 4. Create plan for various types of events 5. Evaluate the plan developed for events.

Syllabus Contents:

Unit1	Introduction to Event Management Introduction to Events and principles of event management, type and Size of event, planning and execution of Event, Legalities, permissions and licenses, Characteristics of an event manager, The role of an event manager.
Unit2	Marketing for Events Need Assessment– Research, customer focus, product focus ,Ideation and planning, Introduction to sales and sales pitches, Strategic budgeting and negotiations, Sponsorships – sponsor types / categories, identifying potential sponsors, preparing sponsorship decks, Media plan – designing a media plan, Introduction to email marketing and copywriting
Unit3	Event Planning And Management Planning an event – steps, Feasibility study, site survey and inspection, venues, time and scope of work, Understanding event and stage design and layouts – putting ideas on paper, Vendor management and planning with vendors, budget allocation and work delegation
Unit4	Event Production And Logistics Elements of production, Stage construction and elements, Infrastructure, Framing and branding, Parking, travel and logistics, Sanitation and hygiene, Safety and security

Reference Books:

1. Event Management, 2nd Edition, ELSEVIER Publication, Glenn A.J. Bowdin, Johnny Allen, William O'Toole, Robert Harris, IanMcDinnell
2. Event Management by Lynn Van Der Wagen and Brenda R. Carlos
3. Event Planning by Prof. Nisar Merchant

Suggested Research Journal :

International Journal of Hospitality and Event Management
International Journal of Event Management Research



Estd. 1962
"A" Accredited by
NAAC(2021)
With CGPA 3.52

SHIVAJI UNIVERSITY, KOLHAPUR - 416 004,
MAHARASHTRA

www.unishivaji.ac.in, bos@unishivaji.ac.in

शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४, महाराष्ट्र

दूरध्वनी - ईपीएब्लूएक्स - २६०९०००, अभ्यासमंडळे विभाग दूरध्वनी ०२३१-२६०९०९३/९४



SU/BOS/Science/482

Date: 01/07/2023

To,

The Principal,
All Concerned Affiliated Colleges/Institutions
Shivaji University, Kolhapur

The Head/Co-ordinator/Director
All Concerned Department (Science)
Shivaji University, Kolhapur.

Subject: Regarding syllabi of M.Sc. Part-I (Sem. I & II) as per NEP-2020 degree programme under the Faculty of Science and Technology.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the revised syllabi, nature of question paper and equivalence of M.Sc. Part-I (Sem. I & II) as per NEP-2020 degree programme under the Faculty of Science and Technology.

M.Sc. Part I (Sem I & II) as per NEP-2020			
1.	Mathematics	5.	Botany
2.	Mathematics (Distance Mode)	6.	Statistics
3.	Mathematics (Online Mode)	7.	Applied Statistics and Informatics
4.	Zoology		

This syllabus, nature of question and equivalence shall be implemented from the academic year 2023-2024 onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website www.unishivaji.ac.in

The question papers on the pre-revised syllabi of above-mentioned course will be set for the examinations to be held in October /November 2023 & March/April 2024. These chances are available for repeater students, if any.

You are, therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Dy Registrar
Dr. S. M. Kubal

Copy to:

1	The Dean, Faculty of Science & Technology	8	P.G. Admission/Seminar Section
2	Director, Board of Examinations and Evaluation	9	Computer Centre/ Eligibility Section
3	The Chairman, Respective Board of Studies	10	Affiliation Section (U.G.) (P.G.)
4	B.Sc. Exam/ Appointment Section	11	Centre for Distance Education



Estd:1962

NAAC “A+ +” Grade with CGPA 3.52

**SHIVAJI UNIVERSITY, KOLHAPUR
CENTRE FOR DISTANCE AND ONLINE EDUCATION (CDOE)**

Programme Project Report (PPR)

of

M.Sc. Mathematics through Online Mode

A. Programme’s mission and objectives:

- 1) To develop employable abilities of the learner where mathematics plays important role.
- 2) To motivate distance education M.Sc. (Mathematics) learner to take higher education.
- 3) To inspire learner to undertake research activity in Mathematics.
- 4) To make learners enough competent in basic functionalities.

B. Relevance of the program with CDOE’s Mission and Goals:

CDOE’s Mission and Goals:

Vision: Imparting Quality Higher Education across the Globe.

Mission: Serving the learners by offering digital learning without time and boundary restrictions.

Goals: Access to Higher Education to

- All segments of the Society across the globe.
- Offer high quality, innovative, career oriented programme to all aspirants.
- All professionals having aspiration of Career advancement are served irrespective of geographical boundaries.

With,

- Quality e-content developed by experts.
- Live Discussion Forums.
- 24 x 7 assistance through dedicated Learning Management System.
- Mentoring facilities provided to cater the needs of the learners.

By these Vision, Mission and Goals, CDOE on the global platforms; are providing the PG programmes to every aspirants of higher education.

C. Nature of prospective target group of learners:

In the post globalization period, there is a huge requirement of manpower having M.Sc. (Mathematics) degree to cater to the needs of manufacturing and service organizations. Further, the manpower which is already employed in manufacturing and service organizations, not having M.Sc. (Mathematics) degree are required to upgrade their qualification by possessing M.Sc. (Mathematics) degree without hampering their service/ working time.

Some graduates, primary teacher, high-school teacher already in service and they want to higher qualification than current qualification for success in their life and this is due only through Online Mode.

D. Appropriateness of programme to be conducted in online mode to acquire specific skills and competence:

Specific Skills and Competence to be achieved by every learner through this Online Mode programme are enlisted follows-

To prepare a young generation of Teachers, Bank staff, government officers who are:

1. Aware of the need of working systematically
2. Aware of the scientific and technological developments.
3. Capable of performing their work backed with theoretical and conceptual clarity.
4. Capable of solving problems and taking appropriate decisions.

E. Instructional Design:

Title of the course: M. Sc. (Mathematics) (Online Mode)

- 1) M.Sc.(Mathematics) Programme has semester pattern
- 2) Duration of the Program
 - The M.Sc. programme will be a full-time two years **online mode** i.e. 4 semesters. Pattern of examination will be Semester System.

Medium of Instruction

- The medium of Instruction will be English only.

Admission Procedure

Eligibility: 1. B.A / B. Sc graduate with Mathematics as specialization subject.
2. B.A. /B. Sc II with one subject Mathematics

3) Structure of the course

The following table gives the scheme of Examination at M.Sc. Mathematics (Part I) according to the New Syllabus and pattern of Examination.

Fees to be paid while registering for the first time for the First Year in accordance with NEP 2020 (Sem.- I & Sem.- II) in June / July :

Sr. No.	Details	Amount (in Rs.)
1.	Registration Fee	2000
2.	Exam Fee	1810
3.	Eligibility fee	As per circular of Qualification department
4.	Alumni associate fee	50
5.	Dhwaj Nidhi	10
6.	Cost of Application form	10
7.	Prospectus charges	20
8.	E-Facility Fee	50
9.	Student welfare fund	100
10.	Youth hostel fee	50
11.	Tuition / Course Fee	30000
12.	Student Accident / Medical Help Fund fee	20
	Total Amount	34,120

Fees to be paid while registering for the first time for the Second Year in accordance with NEP 2020 (Sem.- III & Sem.- IV) in June / July :

Sr. No.	Details	Amount (in Rs.)
1.	Registration Fee	2000
2.	Exam Fee	1810
3.	Eligibility fee	As per circular of Qualification department
4.	Alumni associate fee	50
5.	Dhwaj Nidhi	10
6.	Cost of Application form	10
7.	Prospectus charges	20
8.	E-Facility Fee	50
9.	Student welfare fund	100
10.	Youth hostel fee	50
11.	Tuition / Course Fee	30000
12.	Student Accident / Medical Help Fund fee	20
	Total Amount	34,120

M.Sc.(Mathematics) part I Semester - I

Course Code	Title of course	Number of Credits	Duration of Semester end Exam in hrs.	Marks-Term end Exam	Marks-(Internal) Mid Semester Exam	Total marks of Each Subject
MMT-101	Mandatory Major 4 credits Linear Algebra	4	3	60	40	100
MMT-102	Real Analysis	4	3	60	40	100
MMT-103	Ordinary Differential Equations	4	3	60	40	100
MMT-104	Mandatory Major 2 Credits Numerical Analysis-I	2	2	30	20	50
MET-105	Mandatory Elective (any one) 4 credits Combinatorics or Linear programming and its applications	4	3	60	40	100
RM-106	Mandatory 4 credits Research Methodology	4	3	60	40	100

M.Sc.(Mathematics) part I Semester - II

Course Code	Title of course	Number of Credits	Duration of Semester end Exam in hrs.	Marks-Term end Exam	Marks-(Internal) Mid Semester Exam	Total marks of Each Subject
MMT-201	Mandatory Major 4 credits Algebra	4	3	60	40	100
MMT-202	Topology	4	3	60	40	100
MMT-203	Advanced Calculus	4	3	60	40	100
MMT-204	Mandatory Major 2 Credits Numerical Analysis - II	2	2	30	20	50
MET-205	Mandatory Elective (any one) 4 credits Number Theory or Quantitative techniques in operations Research	4	3	60	40	100
OJT-206	Mandatory 4 credits On job Training / Field project	4	3	60	40	100

M.Sc.(Mathematics) part II Semester - III

Course Code	Title of course	Number of Credits	Duration of Semester end Exam in hrs.	Marks- Term end Exam	Marks- (Internal) Mid Semester Exam	Total marks of Each Subject
MMT-301	Mandatory Major 4 credits Functional Analysis	4	3	60	40	100
MMT-302	Complex Analysis	4	3	60	40	100
MMT-303	Classical Mechanics	4	3	60	40	100
MMT-304	Mandatory Major 2 Credits Advanced Discrete Mathematics	2	2	30	20	50
MET-305	Mandatory Elective (any one) 4 credits Fuzzy Set Theory or Fluid Dynamics	4	3	60	40	100
RP-306	Mandatory 4 credits Research Project	4	3	60	40	100

M.Sc.(Mathematics) part I Semester - II

Course Code	Title of course	Number of Credits	Duration of Semester end Exam in hrs.	Marks- Term end Exam	Marks- (Internal) Mid Semester Exam	Total marks of Each Subject
MMT-401	Mandatory Major 4 credits Integral Equations	4	3	60	40	100
MMT-402	Field Theory	4	3	60	40	100
MMT-403	Partial Differential Equations	4	3	60	40	100
MET-404	Mandatory Elective (any one) 4 credits Fuzzy Relation and Logic Or Computational Fluid Dynamics	4	3	60	40	100
RP-405	Mandatory 6 credit Research Project	6	3	100	50	150

M. Sc. Mathematics (Online Mode) (Part I) (Level-6.0) (Semester I)
(NEP-2020)
(Introduced from Academic Year 2025-26)

Title of Course: Linear Algebra

Total Credits: 04

Course Outcomes: Upon successful completion of this course, the student will be able to:

1. understand basic notions in Linear Algebra and use the results in developing advanced mathematics.
2. study the properties of Vector Spaces, Linear Transformations, Algebra of Linear Transformations and Inner product space in some details.
3. construct Canonical forms and Bilinear forms.
4. apply knowledge of Vector space, Linear Transformations, Canonical Forms and Bilinear Transformations.

Unit I: Elementary Basic concepts, Linear Independence and Bases, Dual Spaces, Annihilator of a subspace, Quotient Spaces. Inner product spaces, Linear Transformations.

15 Lectures

Unit II: The Algebra of Linear transformations, Characteristic Roots, Matrices of linear transformations, Eigen values and eigenvectors of a linear transformation, Canonical Forms: Similarity of linear transformations.

15 Lectures

Unit III: Triangular form, Nilpotent transformations, Jordan Form, Trace and transpose, Determinants.

15 Lectures

Unit IV: Hermitian, Unitary and Normal linear transformations, Bilinear Forms, Symmetric Bilinear Forms, Skew Symmetric Bilinear Forms.

15 Lectures

Seminars, Tutorials, Problem solving session and group discussions on above four units

Recommended Book(s):

1. Herstein I. N. : Topics in Algebra, 2nd Edition, Willey Eastern Limited.
2. Hoffman, Kenneth and Kunze R: Linear Algebra, Prentice Hall of India Private Limited., 1984.

Reference Books:

1. A. R. Rao and P. Bhimashankaran, Linear Algebra, Hidustan Book Agency.
2. Surjit Singh, Linear Algebra, Vikas publishing House (1997).
3. Gilbert Strang: Introduction to Linear Algebra, Wellesley-Cambridge Press

M. Sc. Mathematics (Online Mode) (Part I) (Level-6.0) (Semester I)
(NEP-2020)
(Introduced from Academic Year 2025-26)

Title of Course: Real Analysis

Total Credits: 04

Course Outcomes: Upon successful completion of this course, the student will be able to:

1. generalize the concept of length of interval.
2. analyze the properties of Lebesgue measurable sets.
3. demonstrate the measurable functions and their properties.
4. understand the concept of Lebesgue integration of measurable functions.
5. characterize Riemann and Lebesgue integrability.
6. prove completeness of L^p Spaces.

UNIT I:

σ -algebra and Borel Sets of Real numbers, Lebesgue Outer Measure, The sigma algebra of Lebesgue measurable sets, Outer and Inner approximation of Lebesgue Measurable Sets, Countable Additivity, Continuity and Borel-Cantelli Lemma. **15 Lectures**

UNIT II:

Nonmeasurable Sets, Lebesgue Measurable Functions: Sums, Product and Composition of Measurable Functions, Sequential Pointwise Limits and Simple Approximation, Littlewood's Three Principles (Statement and importance of Egoroff's Theorem and Lusin's Theorem) **15 Lectures**

UNIT III:

Lebesgue Integral of a Bounded Measurable Function over a Set of Finite Measure, Lebesgue integral of a Measurable Non-negative Function, The General Lebesgue Integral, Characterizations of Riemann and Lebesgue Integrability. **15 Lectures**

UNIT IV:

Lebesgue's Theorem (Statement Only), Functions of Bounded Variations, Jordan's theorem, Absolutely Continuous Functions, Integrating Derivatives: Differentiating Indefinite Integrals, The L^p Spaces: Normed Linear Spaces, The Inequalities of Young, Hölder and Minkowski, The Riesz-Fischer Theorem.

15 Lectures

Seminars, Tutorials, Problem solving session and group discussions on above four units

Recommended Books:

1. H. L. Royden, P.M. Fitzpatrick, Real Analysis, Fourth Edition, PHI Learning Pvt. Ltd., New Delhi, 2010

Reference Books:

1. G. de Barra, Measure Theory and Integration, New Age International (P) Ltd., 1981.
2. I. K. Rana, An Introduction to Measure and Integration, Narosa Book Company, 1997.
3. S. K. Berberian, Measure and Integration, McMillan, New York, 1965.
4. P. K. Jain, V. P. Gupta, Lebesgue measure and Integration, Wiley Easter Limited, 1986.
5. W. Rudin, Principles of Mathematical Analysis, McGraw-Hill Book Co, 1964.
6. P. K. Halmos, Measure Theory, Van Nostrand, 1950.

M. Sc. Mathematics (Online Mode) (Part I) (Level-6.0) (Semester I)
(NEP-2020)

(Introduced from Academic Year 2025-26)

Title of Course: Ordinary Differential Equations

Total Credits: 04

Course Outcomes: Upon successful completion of this course, the student will be able to:

1. study basic notions in Differential Equations and use the results in developing advanced mathematics.
2. solve problems modeled by linear differential equations.
3. use power series methods to solve differential equations about ordinary points and regular singular points.
4. construct approximate solutions using method of successive approximation.
5. establish uniqueness of solutions.

Unit I : Linear differential equations with constant coefficients: The second order homogeneous equation, initial value problems for second order equations, linear dependence and independence, formula for the Wronskian, the non-homogeneous equations of order two.

15 Lectures

Unit II: The homogeneous equations of order n , initial value problems for the n th order equations, the non-homogeneous equation of n th order. Linear equations with variable coefficients: Initial value problems for the homogeneous equations. Solutions of the homogeneous equations, the Wronskian and linear independence.

15 Lectures

Unit III: Reduction of the order of a homogeneous equation, the non-homogeneous equations, homogeneous equations with analytic coefficients, the Legendre equations. Linear equations with regular singular points: The Euler equations, second order equations with regular singular points.

15 Lectures

Unit IV: The Bessel equation, regular singular points at infinity. Existence and uniqueness of solutions: The method of successive approximations, the Lipschitz condition, convergence of the successive approximation.

15 Lectures

Seminars, Tutorials, Problem solving session and group discussions on above four units

Recommended books:

1. E. A. Coddington: An introduction to ordinary differential equations. (2012) Prentice Hall of India Pvt.Ltd. New Delhi.

Reference books:

1. G. Birkoff and G.G.Rota, Ordinary differential equations, John Willey and Sons.
2. G.F. Simmons, Differential Equations with Applications and Historical note, McGraw-Hill, Inc. New York. (1972).
3. E.A. Coddington and Levinson, Theory of ordinary differential equations, McGraw-Hill, New York(1955).
4. E.D. Rainvills, Elementary differential equations, The Macmillan company, New York, (1964).

M. Sc. Mathematics (Online Mode) (Part I) (Level-6.0) (Semester I)
(NEP-2020)
(Introduced from Academic Year 2025-26)

Title of Course: Numerical Analysis - I

Total Credits: 02

Course Outcomes: Upon successful completion of this course, the student will be able to:

- 1) apply the methods to solve linear and nonlinear equations.
- 2) find numerical integration and analyze error in computation.
- 3) solve differential equations using various numerical methods.
- 4) determine eigen values and eigen vectors of a square matrix.
- 5) construct LU decomposition of a square matrix.

Unit I: Transcendental & polynomial equations: Bisection method, Iteration methods based on First degree equation (Secant method, Regula-Falsi method and Newton-Raphson method). Rate of Convergence, Iterative methods (Birge-Vieta method and Bairstow method).

15 Lectures

Unit II: System of linear algebraic equations and eigen value problems: Matrix factorization methods (Doolittle's method, Crout's method), Iteration methods (Jacobi iteration method, Gauss-Seidel iteration method), convergence analysis of iterative methods, Eigen values and eigenvectors, Gerschgorin theorem, Brauer theorem, Jacobi method for symmetric matrices, Power method.

15 Lectures

Seminars, Tutorials, Problem solving session and group discussions on above four units

Recommended Books:

1. M. K. Jain, S. R. K. Iyengar, R. K. Jain, Numerical methods for scientific and Engineering Computation (Fifth Edition), New Age International Publishers 2007.

Reference Books:

1. S. S. Sastry, Introductory methods of Numerical Analysis (Fifth Edition), PHI learning Private Limited, New Delhi 2012.
2. D. Kincaid, W. Cheney, Numerical Analysis Mathematics of Scientific Computing (Third Edition), American Mathematical Society.
3. J.C. Butcher, Numerical methods for ordinary differential equations (Second Edition), John Wiley & Sons Ltd, 2008.
4. Kendall E. Atkinson, An Introduction to Numerical Analysis (Second Edition), John Wiley & Sons 1988.

M. Sc. Mathematics (Online Mode) (Part I) (Level-6.0) (Semester I)
(NEP-2020)

(Introduced from Academic Year 2025-26)

Title of Course: Combinatorics

Total Credits: 04

Course Outcomes: Upon successful completion of this course, the student will be able to:

1. describe Pigeonhole principle and use it to solve problems.
2. use definitions and theorems from memory to construct solutions to problems
3. use Burnside Frobenius Theorem in counting's.
4. use various counting techniques to solve various problems.
5. apply combinatorial ideas to practical problems.
6. improve mathematical verbal communication skills.

Unit I: The sum rule and product rule, permutations and combinations, the Pigeonhole principle, Ramsay numbers, Catalan numbers, sterling numbers. **15 Lectures**

Unit II: Further basic tools, generalized permutations and combinations sequences and selections, the inclusion and exclusion principle, systems of distinct representatives, solved problems derangements and other constrain derangements. **15 Lectures**

Unit III: Combinatorial number theory, the permanent of a matrix, Rook polynomials and Hit polynomials, SDR and coverings, (Sperners theorem and Symmetric chain decomposition, posets and Dilworth's theorem) statements. **15 Lectures**

Unit IV: Generating functions and recurrence relations, ordinary and exponential generating functions, partitions of a positive integer, recurrence relations, algebraic solutions of linear recurrence relations with constant coefficients and solutions of recurrence relations using generating functions. **15 Lectures**

Seminars, Tutorials, Problem solving session and group discussions on above four units

Recommended Books:

1. V. K. Balkrishnan: Combiactorics, Shaums Outlines Series, Mc Grow Hill Inc.

Reference Books:

1. Richard Brualdi – Introductory Combinatosics North Holland.
2. V. Krishnamurthy: Combinatorics, E. W. Press
3. A. Tucker: Combinatorics, John Wiley & Sons, Inc
4. C. Vasudev, Theory and Problems of Combinatorics, New Age International

M. Sc. Mathematics (Online Mode) (Part I) (Level-6.0) (Semester I)
(NEP-2020)

(Introduced from Academic Year 2025-26)

Title of Course: Linear programming and its applications

Total Credits: 04

Course outcomes: Upon successful completion of this course, the student will be able to --

1. Recognize convex sets and convex functions.
2. Calculate maximum and minimum value of a function of several variables.
3. Solve LPP by simplex and dual simplex methods.

Unit – I: General formulation of linear programming problem, Slack and surplus variables, standard form of LPP, Solution of LPP, Feasible solution of LPP, Basic solution, Basic feasible solution, Optimum Basic feasible solution, unbounded solution, Lines and hyperplanes, Convex sets, polyhedron convex set, extreme points of a convex set, convex combination of vectors, convex hull, convex polyhedron, convex function, maxima and minima of functions of several variables. **15 lectures**

Unit -II : Introduction to linear programming problems, fundamental theorem of linear programming, computational procedure of a simplex method, examples. Two phase method, Examples, big M method, disadvantages of big M method over two phase method, problem of degeneracy, Resolution of degeneracy, unbounded solutions, non-existing feasible solutions **15 lectures**

Unit -III : Duality in linear programming, rules for converting any primal into its dual, Duality theorems, fundamental duality theorem, The dual simplex method, Computational procedure of dual simplex method, examples. **15 lectures**

Unit – IV: Integer linear programming: Importance of integer Programming problems, Gomory's all IPP Method, Gomorian slack variable, Construction of Gomory's Constraints, Gomory's cutting plane Algorithm, Computational procedure for the solution of IPP by Gomory's Method, The Branch and Bound method, branch and bound algorithm, concept goal programming, single goal models, multiple goal models, multiple goals with equal priorities, multiple goal with priorities, multiple goals with priorities and weights, formulation of goal programming models, methodology of solution procedure, graphical solution. simplex method applied to GP problems. **15 lectures**

Seminars, Tutorials, Problem solving session and group discussions on above four units

Recommended Book: 1 S.D. Sharma: Operations Research, Kedar Nath Ram Noth and co. 15th edition reprint 2009

Reference Books: 1.J.K.Sharma : Operations research

2. Kanti Swarup, P.K.Gupta and Manmohan : Operations research, S.Chand & Co.

3. Hamdy Taha : Operations Research : Mac Millan Co.

4. R.K.Gupta : Operations Research Krishna Prakashan Mandir, Meeru

5. G.Hadley : Linear programming, Oxford and IBH Publishing Co.

6. S.I.Gass : Linear Programming, Mc Graw Hill Book Co

M. Sc. Mathematics (Online Mode) (Part I) (Level-6.0) (Semester I)
(NEP-2020)

(Introduced from Academic Year 2025-26)

Title of Course: Research Methodology

Total Credits: 04

Course Outcomes: Upon successful completion of this course, the student will be able to:

1. understand skill of mathematical writing
2. Understand writing research paper
3. revise the drafts, check the proofs
4. understand the copy copyright issues
5. Type in mathematics using latex

Unit I: Mathematical Writing: What Is a Theorem?, Proofs, The Role of Examples, Definitions, Notation, Words versus Symbols, Displaying Equations, Parallelism, Dos and Don'ts of Mathematical Writing. Writing a Paper: Audience, Organization and Structure, Title, Author List, Date, Abstract, Key Words and Subject Classifications. **15 Lectures**

Unit II: Writing a Paper (Continued...): The Introduction, Review of Literature, Computational Experiments, Tables, Citations, Conclusions, Acknowledgements, Appendix, Reference List, Specifics and Deprecated Practices. Revising a Draft: How to Revise, Examples of Prose, Examples Involving Equations, Examples from My Writing, A Revised Proof, A Draft Article for Improvement. **15 Lectures**

Unit III: Publishing a Paper: Choosing a Journal, Submitting a Manuscript, The Refereeing Process, How to Referee, The Role of the Copy Editor, Checking the Proofs, Copyright Issues, SIAM Journal Article: A case study. Writing and Defending a Thesis: The Purpose of a Thesis, Content, Presentation, The Thesis Defence. **15 Lectures**

Unit IV: Quality indices of research publication: impact factor, H- index, science citation index., Using web for literature review: Google Scholar, Scopus, MathSciNet. Latex –Basic Typesetting of Mathematics, Typesetting Theorems. **15 Lectures**

Seminars, Tutorials, Problem solving session and group discussions on above four units

Recommended Book:

1. Higham Nicholas J., Handbook of writing for the mathematical sciences, SIAM, 1961.
1. LATEX Tutorials A Primer, Indian TEX Users Group, Trivandrum, India, 2003 September.<https://www.tug.org/twg/mactex/tutorials/ltxprimer-1.0.pdf>

References:

1. Stegmann J., How to evaluate journal impact factors, Nature, 390(6660), (1997), 550-550.
2. Kaltenborn K. F. and Kuhn K, The journal impact factor as a parameter for the evaluation of researchers and research, Revista Espanola de Enfermedades Digestivas, 96(7), (2004), 460-476.
3. Hirsch J. E., An index to quantify an individual's scientific research output, <https://arxiv.org/abs/physics/0508025>
4. Garfield E., The evolution of the Science Citation Index, International Microbiology, 10, (2007), 65-69. DOI: 10.2436/20.1501.01.10
5. A Primer of Mathematical Writing, Steven G. Krantz, Universities Press Hyderabad 1998.<https://arxiv.org/pdf/1612.04888.pdf> 6McGraw- Hill's Concise Guide to Writing Research Papers, Carol Ellison, McGraw-Hill, New York, 2010.

M. Sc. Mathematics (Online Mode) (Part I) (Level-6.0) (Semester II)
(NEP-2020)

(Introduced from Academic Year 2025-26)

Title of Course: Algebra

Total Credits: 04

Course Outcomes: Upon successful completion of this course, the student will be able to:

1. study group theory and ring theory in some details.
2. introduce and discuss module structure over a ring.
3. apply Sylow theorems.
4. use homomorphism and isomorphism theorems.
5. check irreducibility of polynomials over $\mathbb{Q}$ using Eisenstein criteria.

Unit I: Group of permutations, Examples, Alternating Groups, Simple groups, simplicity of A_n ($n > 4$), Applications, Subnormal and Normal Series, Jordan-Holder Theorem, The Center and the Ascending Central Series, Isomorphism Theorems.

15 Lectures

Unit II: The Zassenhaus (Butterfly) Lemma, Schreier Theorem, Group action on a set, fixed sets and isotropy subgroups, Orbits, Applications of G-Sets to Counting, Burnside theorem, p-groups, The Sylow Theorems.

15 Lectures

Unit III: Applications of Sylow theorems to p-Groups and the Class equation, Further Applications, Polynomial in an Indeterminate, Polynomial rings, The evaluation Homomorphisms, Factorization of Polynomials over Fields, The Division Algorithm in $F[x]$, Irreducible Polynomials, Eisenstein criteria, Ideal Structure in $F[x]$, Uniqueness of Factorization in $F[x]$.

15 Lectures

Unit IV: Principal Ideal Domain (PID), Uniqueness of Factorization Domain (UFD), Gauss lemma, Introduction and Definition of Euclidean Domain, Arithmetic in Euclidean Domains. Definitions and Examples of Modules, Direct Sums, Free Modules, sub-modules, Quotient Modules, Homomorphism, Simple Modules.

15 Lectures

Seminars, Tutorials, Problem solving session and group discussions on above four units

Recommended Book(s):

1. John B. Fraleigh, A first course in Abstract Algebra (Third Edition), Narosa publishing house, New Delhi.
2. C. Musili, Introduction to Rings and Modules (Second Revised Edition), Narosa Publishing house, New Delhi.

Reference Books:

1. Joseph A. Gallian, Contemporary Abstract Algebra (Fourth Edition), Narosa Publishing house, New Delhi.
2. Bhattacharya, Jain and Nagpal, Basic Abstract Algebra, 2nd edition, Narosa Publishing House, New Delhi.
3. I. N. Herstein, Topics in Algebra, Vikas Publishing House.
4. N. Jacobson, Basic Algebra, Hind Publishing Corporation, 1984.

M. Sc. Mathematics (Online Mode) (Part I) (Level-6.0) (Semester II)
(NEP-2020)

(Introduced from Academic Year 2025-26)

Title of Course: Topology

Total Credits: 04

Course Outcomes: Upon successful completion of this course, the student will be able to:

1. built foundations for future study in analysis, in geometry, and in algebraic topology.
2. introduce the fundamental concepts in topological spaces.
3. acquire demonstrable knowledge of topological spaces, product spaces, and continuous functions on topological spaces.
4. identify compact and connected sets in topological spaces.
5. use Separation and countability axioms, Urysohn lemma, Urysohn metrization.

Unit I: Topological Spaces, Basis and Subbasis for a Topology, The Order Topology, The Product Topology on $X \times Y$, The Subspace Topology. **15 Lectures**

Unit II: Closed Sets, Closure and Interior of a Set, Limit Points, Hausdorff Spaces, Continuity of Functions, Homeomorphisms, The Product Topology, The Metric Topology. **15 Lectures**

Unit III: Connected Spaces, Connected Subspaces of the Real Line, Components and Local Connectedness, Compact Spaces, Compact Subspaces of the Real Line. **15 Lectures**

Unit IV: The Countability Axioms, The Separation Axioms, Normal Spaces, The Urysohn Lemma, The Urysohn Metrization Theorem (Only statement and its importance), The Tietze Extension Theorem (Only statement and its importance). **15 Lectures**

Seminars, Tutorials, Problem solving session and group discussions on above four units

Recommended Book:

1. J. R. Munkers, Topology, Second Edition, Pearson Education (Singapore), 2000.

Reference Books:

1. W. J. Pervin, Foundations of General Topology, Academic Press, New York, 1964.
 2. J. L. Kelley, General Topology, Springer-Verlag, New York, 1955.
 3. S. Willard, General Topology, Addison-Wesley Publishing Company, 1970.
 4. K. D. Joshi, Introduction to General Topology, New Age International, 1983.
- G. F. Simmons, Introduction to Topology and Modern Analysis, McGraw Hill Book Company, New Delhi, 1963.

M. Sc. Mathematics (Online Mode) (Part I) (Level-6.0) (Semester II)
(NEP-2020)

(Introduced from Academic Year 2025-26)

Title of Course: Advanced Calculus

Total Credits: 04

Course Outcomes: Upon successful completion of this course, the student will be able to:

- (i) Analyze convergence of sequences and series, double sequences and double series
- (ii) Analyze convergence of sequences and series of functions
- (iii) check differentiability of functions of several variables
- (iv) Apply inverse and implicit function theorems for functions of several variables

Unit I : Sequences and series of functions: Pointwise convergence of sequences of functions, Examples of sequences of real valued functions, Definition of uniform convergence, Uniform convergence and continuity, Cauchy condition for uniform convergence, Uniform convergence and Riemann integration, Uniform convergence and differentiation

15 Lectures

Unit II: Rearrangement of series, subseries, Double sequences, Double series, rearrangement of double series, sufficient condition for equality of iterated series, multiplication of series, Cesaro summability, sufficient conditions for uniform convergence of series, uniform convergence and double sequences, mean convergence, Taylor series generated by a function, Bernstein's theorem, binomial series.

15 Lectures

Unit III: Multivariable differential Calculus: The Directional derivatives, directional derivatives and continuity, total derivative, total derivatives expressed in terms of partial derivatives, The matrix of linear function, mean value theorem for differentiable functions, A sufficient condition for differentiability, sufficient condition for equality of mixed partial derivatives, Taylor's formula for functions from $\mathbb{R}^n$ to $\mathbb{R}^1$

15 Lectures

Unit IV: Implicit functions: Functions of several variables, Linear transformations, Differentiation, Contraction principle, The inverse function theorem, The implicit function theorem and their applications.

15 Lectures

Seminars, Tutorials, Problem solving session and group discussions on above four units

Recommended books:

1. Mathematical Analysis, Apostol, Second Edition, Narosa Publishing House.1974

Reference books:

1. Principles of mathematical Analysis, Walter Rudin, third Edition, McGraw Hill book company
2. Calculus Vol. I , Vol II, Tom M. Apostol, Second Edition Wiley India Pvt. Ltd.
3. W.Fleming, Functions of several Variables, 2nd Edition ,Springer Verlag, 1977.

M. Sc. Mathematics (Online Mode) (Part I) (Level-6.0) (Semester II)
(NEP-2020)

(Introduced from Academic Year 2025-26)

Title of Course: Numerical Analysis - II

Total Credits: 02

Course Outcomes: Upon successful completion of this course, the student will be able to:

- 1) apply the methods to solve linear and nonlinear equations.
- 2) find numerical integration and analyze error in computation.
- 3) solve differential equations using various numerical methods.
- 4) determine eigen values and eigen vectors of a square matrix.
- 5) construct LU decomposition of a square matrix.

Unit I: Interpolation, differentiation and integration: Lagrange and Newton interpolations, Truncation error bounds, Newtons divided difference interpolation, finite difference operators, numerical differentiation, methods based on interpolation, numerical integration, methods based on interpolation, error analysis, Newton-Cotes methods, Error estimates for trapezoidal and Simpson's rule.

15 Lectures

Unit II: Numerical solution of differential equations: Euler method, analysis of Euler method, Backward Euler method, mid-point method, order of a method, Taylor series method, Explicit Runge-Kutta methods of order two and four, convergence and stability of numerical methods, Truncation error, error analysis.

15 Lectures

Seminars, Tutorials, Problem solving session and group discussions on above four units

Recommended Books:

1. M. K. Jain, S. R. K. Iyengar, R. K. Jain, Numerical methods for scientific and Engineering Computation (Fifth Edition), New Age International Publishers 2007.

Reference Books:

1. S. S. Sastry, Introductory methods of Numerical Analysis (Fifth Edition), PHI learning Private Limited, New Delhi 2012.
2. D. Kincaid, W. Cheney, Numerical Analysis Mathematics of Scientific Computing (Third Edition), American Mathematical Society.
3. J.C. Butcher, Numerical methods for ordinary differential equations (Second Edition), John Wiley & Sons Ltd, 2008.
4. Kendall E. Atkinson, An Introduction to Numerical Analysis (Second Edition), John Wiley & Sons 1988.

M. Sc. Mathematics (Online Mode) (Part I) (Level-6.0) (Semester II)
(NEP-2020)
(Introduced from Academic Year 2025-26)
Title of Course: Number Theory
Total Credits: 04

Course Outcome:- Upon successful completion of this course, the student will be able to:-

1. learn more advanced properties of primes and pseudo primes.
2. apply Mobius Inversion formula to number theoretic functions.
3. explore basic idea of cryptography.
4. understand concept of primitive roots and index of an integer relative to a given primitive root.
5. derive Quadratic reciprocity law and its apply to solve quadratic congruences.

Unit I: Review of divisibility: The division algorithm, G.C.D., Euclidean algorithm, Diophantine equation $ax + by = c$. Primes and their distribution : Fundamental theorem of Arithmetic, The Goldbach Conjecture. **15 Lectures**

Unit II : Congruences : Properties of Congruences, Linear congruences, Special divisibility tests. Fermat's theorem : Fermat's factorization method, Little theorem, Wilsons theorem. Number theoretic functions : The functions τ and σ . The Mobius Inversion formula, The greatest integer function. **15 Lectures**

Unit III: Euler's Generalization of Fermat's theorem: Euler's phi function, Euler's theorem, properties of phi function, An application to Cryptography. Primitive roots : The order of an integer modulo n . **15 Lectures**

Unit IV: Primitive roots for primes, composite numbers having primitive roots, The theory of Indices. The Quadratic reciprocity law: Eulerian criteria, the Legendre symbol and its properties, quadratic reciprocity, quadratic reciprocity with composite moduli . **15 Lectures**

Seminars, Tutorials, Problem solving session and group discussions on above four units

Recommended Books :

1. D.M.Burton : Elementary Number Theory, Seventh Ed. MacGraw Hill Education(India) Edition 2012, Chennai.

Reference Books :

1. S.B.Malik : Basic Number theory, Vikas publishing House.
2. George E. Andrews : Number Theory, Hindustan Pub. Corp.(1972).
3. Niven, Zuckerman : An Introduction to Theory of Numbers. John Wiley & Sons.
4. S. G. Telang , Number Theory, Tata Mc.Graw-Hill Publishing Co., New Delhi.
5. M.B. Nathanson, Methods in Number Theory, Springer(2009).

M. Sc. Mathematics (Online Mode) (Part I) (Level-6.0)
(Semester II) (NEP-2020)

(Introduced from Academic Year 2025-26)

Title of Course: Quantitative techniques in operations Research

Total Credits: 04

Course Outcomes: Upon successful completion of this course, the student will be able to:

1. Decide policy for replacement.
2. Calculate economic lot size.
3. Derive Poisson distribution theorem and compute attributes of distribution model.
4. Identify optimal path by using CPM and PERT.

Unit I: Replacement Problems: Introduction, Failure mechanism of items, Replacement policy for items whose maintenance cost increases with time and money values is constant, Money value, Present worth factor and discount rate, Replacement policy for items whose maintenance cost increases with time and money values changes with constant rate, Individual replacement policy: Mortality theorem, Group replacement policy.

15 lectures

Unit – II : Inventory – Introduction, Cost involved in inventory problems, variables in inventory problem, symbols in inventory, concept of Economic Ordering Quantity (EOQ), The EOQ models without shortage: Model I (a) The economic lot size system with uniform demand. Model I (b) Economic lot size with different rates of demand in different cycles. Model I (c) Economic lot size with finite Rate of Replenishment. (EOQ production model), EOQ model with shortages: Model II (a) The EOQ with constant rate of demand, scheduling time constant, Model II (c) The production lot size model with shortages. Probabilistic inventory Models, Instantaneous demand, no set up cost model Model VI (a) Discrete case Model VI (b) continuous case, Problems on above models. **15 lectures**

Unit – III : Queuing Theory - Queuing systems, Queuing Problems: transient and steady states, A list of symbols, traffic intensity, Probability distributions in Queuing systems: Distribution of arrivals 'The Poisson process', Properties of Poisson process of arrivals, Distribution of inter-arrival times (Exponential process). Distribution of Departures (Pure death model), Analogy of exponential service time with Poisson Arrivals Model I : (M/M/1) : (/FCFS): Birth and Death model, Solution of model, Examples on model I, Problems. **15 lectures**

Unit – IV: PERT / CPM : Applications of PERT / CPM techniques, Network diagram representation. Rules for constructing the Network diagram, Time estimates and critical path in network analysis, Examples on optimum duration and minimum duration cost, Problems **15 lectures**

Seminars, Tutorials, Problem solving session and group discussions on above four units

Recommended Books:

1. S.D.Sharma : Operations Research Kedarnath and co. 1999

Reference Books:

1. Hamdy Taha : Operations Research, Macmillan and Co.
2. J.K. Sharma : Operations Research, Macmillan India Ltd. 1999.
3. R.K.Gupta : Operations research Time estimates h, Krishna Prakashan Mandir, 1999

M.Sc. Mathematics (Distance Mode) (Part I) (Level-6.5) (SemesterII) (NEP-2020)
(Introduced from Academic Year 2025-26)

Title of Course: On job Training / Field project

Total Credits: 04

M.Sc. Mathematics (Distance Mode) (Part II) (Level-6.5) (SemesterIII) (NEP-2020)
(Introduced from Academic Year 2026-27)

Title of Course: Functional Analysis

Total Credits: 04

Course Outcomes: Upon successful completion of this course, the student will be able to:

1. understand the fundamental topics, principles and methods of functional analysis.
2. demonstrate the knowledge of normed spaces, Banach spaces, Hilbert space.
3. define continuous linear transformations between linear spaces, bounded linear functionals.
4. apply finite dimensional spectral theorem.
5. identify normal, self adjoint, unitary, normal operators.

UNIT– I : Normed linear spaces, Banach spaces, quotient spaces, continuous linear transformations, equivalent norms, finite dimensional normed spaces and properties, conjugate space and separability, The Hahn-Banach theorem and its consequences.

15 Lectures

UNIT –II: Second conjugate space, the natural embedding of the normed linear space in its second conjugate space, reflexivity of normed spaces, the open mapping theorem, projection on Banach space, the closed graph theorem, the conjugate of an operator, the uniform boundedness principle. **15 Lectures**

UNIT –III: Hilbert spaces: examples and elementary properties, orthogonal complements, the projection theorem, orthogonal sets, the Bessel's inequality, Fourier expansion and Parseval's equation, separable Hilbert spaces, the conjugate of Hilbert space, Riesz's theorem, the adjoint of an operator. **15 Lectures**

UNIT – IV: Self adjoint operators, normal and unitary operators, projections, eigen values and eigenvectors of an operator on a Hilbert space, the determinants and spectrum of an operator, the spectral theorem on a finite dimensional Hilbert space. **15 Lectures**

Recommended Book(s):

G. F. Simmons, Introduction to Topology and Modern Analysis, Tata McGraw Hill, 1963.

Reference Books:

1. Erwin Kreyszig, Introductory Functional Analysis with Applications, John Wiley and Sons, 1978.

2. A. E. Taylor, Introduction to Functional analysis, John Wiley and sons, 1958.
3. J. B. Conway, A course in Functional Analysis, Springer-Verlag, 1985.
4. G. Bachman and L. Narici, Functional Analysis, Academic Press, 1972.
5. B. V. Limaye, Functioned Analysis, New age international, 1996.

**M.Sc. Mathematics (Distance Mode) (Part II) (Level-6.5) (Semester III) (NEP-2020)
(Introduced from Academic Year 2026-27)**

Title of Course: COMPLEX ANALYSIS

Total Credits: 04

Course outcomes: to enable the student to

1. understand fundamental concepts of complex analysis.
2. identify analytic functions, Conformal maps.
3. construct Taylor and Laurent series.
4. classify singularity and apply Residue Theorem to evaluate real integrals.
5. enjoy the beauty of analytic functions and related concepts.

Unit 1: Power series, Radius of convergence, analytic functions, Cauchy-Riemann equations, Harmonic functions, Conformal mappings, Mobius Transformations, line integral. **15 Lectures**

Unit 2: Power series representation of analytic functions, zeros of an analytic function, Liouville's Theorem, Fundamental theorem of algebra, maximum modulus theorem, the index of a closed curve, Cauchy's theorem and integral formula, Morera's Theorem. **15 Lectures**

Unit 3: Counting zeros, open Mapping theorem, Goursat's Theorem, classification of singularities, Laurent series development, Casorati-Weierstrass theorem, residues, residue theorem, evaluation of real integrals. **15 Lectures**

Unit 4: The argument principle, Rouché's theorem, the maximum principle, Schwarz's lemma and its application to characterize conformal maps, Riemann mapping theorem. **15 Lectures**

Recommended Book :

1. J. B. Conway: Functions of One Complex Variable (3rd Edition) Narosa Publishing House.

References :

1. S. Ponnusamy, Foundations of Complex Analysis, Narosa Publishing House.
2. Alfors L. V.: Complex Analysis, McGraw 1979.
3. Churchill and Brown, Complex Variables and applications, MacGrawHill(India). (8th Edition, 2014)
4. Serge Lang, Complex Analysis, Springer
5. Steven G. Krantz, Complex Analysis, A Geometric view Point, The Carus Mathematical Monographs.
6. T. W. Gamelin, Complex Analysis, Springer.

M.Sc. Mathematics (Distance Mode) (Part II) (Level-6.5) (Semester III) (NEP-2020)
(Introduced from Academic Year 2026-27)

Title of Course: CLASSICAL MECHANICS

Total Credits: 04

Course outcomes: to enable the student to

1. discuss the motion of system of particles using Lagrangian and Hamiltonian approach.
2. solve extremization problems using variational calculus.
3. discuss the motion of rigid body.
4. construct Hamiltonian using Routh process. use infinitesimal and finite rotations to analyze motion of rigid body.

UNIT – I: Mechanics of a particle, Mechanics of a system of particles, conservation theorems, constraints, Generalized coordinates, D’Alembert’s Principle, Lagrange’s equations of motion, Simple applications of Lagrangian formulation, Cyclic co-ordinates and generalised momentum, conservation theorems. **15 Lectures**

UNIT – II: Functionals, basic lemma in calculus of variations, Euler- Lagrange’s equations, first integrals of Euler- Lagrange’s equations, Geodesics in a plane and space, the minimum surface of revolution, the case of several dependent variables . **15 Lectures**
Undetermined end conditions, the problem of Brachistochrone, Isoperimetric problems, problem of maximum enclosed area. Hamilton’s Principle, Derivation of Hamilton’s principle from D’Alembert’s principle, Lagrange’s equations from Hamilton’s principle. Lagrange’s equations of motion for nonconservative systems (Method of Lagrange’s undetermined multipliers)

UNIT – III: Hamiltonian function, Hamilton’s canonical equations of motion, cyclic co-ordinates and Routh’s procedure, Derivation of Hamilton’s equations from variational principle, Physical significance of Hamiltonian, The principle of least action. Orthogonal transformations, Properties of transformation matrix, infinitesimal rotations. **15 Lectures**

UNIT – IV: The Kinematics of rigid body motion: The independent co-ordinates of a rigid body, the Eulerian angles, Euler’s theorem on motion of rigid body, Angular momentum and kinetic energy of a rigid body with one point fixed, the inertia tensor and moment of inertia, Euler’s equations of motion, Cayley- Klein parameters, Matrix of transformation in Cayley- Klein parameters, Relations between Eulerian angles and Cayley- Klein parameters. **15 Lectures**

Recommended Books :

- 1) Goldstein, H. Classical Mechanics. (1980), Narosa Publishing House, New Delhi.
- 2) Weinstock: Calculus of Variations with Applications to Physics and Engineering (International Series in Pure and Applied Mathematics). (1952), Mc Graw Hill Book Company, New York. **Reference Books :-** 1) Whittaker, E. T. A Treatise on the Analytical Dynamics of Particles and Rigid Bodies. (1965), Cambridge University Press.
- 3) Gupta, A. S. Calculus of Variations with Applications (1997), Prentice Hall of India.
- 4) Gelfand, I. M. and Fomin, S. V. Calculus of Variations (1963), Prentice Hall of India. Rana, N.C. and Joag, P. S. Classical Mechanics. (1991) Tata McGraw Hill, New Delhi

**M.Sc. Mathematics (Distance Mode) (Part II) (Level-6.5) (Semester III) (NEP-2020)
(Introduced from Academic Year 2026-27)**

**Title of Course: Advanced Discrete Mathematics
Total Credits: 02**

Course Outcomes: Upon successful completion of this course, the student will be able to:

1. classify the graphs and apply to real world problems.
2. simplify the graphs using matrix.
3. simplify the Boolean identities and apply to switching circuits.
4. learn applications of discrete mathematics including lattices and Boolean Algebra.

UNIT– I : Graph: Definition, examples, isomorphism, simple graph, bipartite graph, complete bipartite graph, vertex degrees, regular graph, sub-graphs, complement of a graph, self complementary graph, paths and cycles in a graph, the matrix representation of a graph. Definition and simple properties of a tree, Bridges. **15**

Lectures

UNIT –II: Posets: Definition, examples, Hasse diagrams of posets, supremum and infimum, isomorphic ordered sets, duality. Lattices: Definition, examples, sublattices. Ideals: Definition, examples, bounded lattices, distributive lattices, modular lattices, complemented lattices, Boolean algebra, basic definitions, basic theorems, Boolean algebras as lattices, CNF, DNF, applications of Boolean algebra to switching circuit. **15**

Lectures

Recommended Book(s):

1. John Clark and Derek Holton, A first look at Graph Theory, Allied Publishers Ltd., 1991.
2. G. Gratzner, General Lattice Theory, Birkhauser, 2002.
3. J. Eldon Whitesitt, Boolean Algebra and Its Applications, Addison-Wesley Publishing Company, Inc., 1961.

Reference Books:

1. Seymour Lipschutz and Mark Lipson, Discrete Mathematics (second edition) Tata Mc Graw Hill Publishing Company Ltd. New Delhi.
2. Garrett Birkhoff: Lattice Theory, American mathematical society, 1940

M.Sc. Mathematics (Distance Mode) (Part II) (Level-6.5) (Semester III) (NEP-2020)
(Introduced from Academic Year 2026-27)

Title of Course: FUZZY SET THEORY

Total Credits: 04

Course outcomes: to enable the student to Course Outcomes:-

1. acquire the knowledge of notion of crisp sets and fuzzy sets,
2. understand the basic concepts of crisp set and fuzzy set,
3. develop the skill of operation on fuzzy sets and fuzzy arithmetic,
4. demonstrate the techniques of fuzzy sets and fuzzy numbers.
5. apply the notion of fuzzy set, fuzzy number in various problems.

Unit I: Fuzzy sets and crisp sets, examples of fuzzy sets, types of fuzzy sets, standard operations, cardinality, degree of subset hood, level cuts and its properties, representation of fuzzy sets, decomposition theorems, extension principle, properties of direct and inverse images of fuzzy sets. **15 Lectures**

Unit II: Operations on fuzzy sets, types of operations, fuzzy complement, equilibrium and dual point, Increasing and decreasing generators, fuzzy intersection: t-norms.

15 Lectures

Unit III: Fuzzy union t-conorms, characterization theorem of t-conorm, combination of operators, aggregation operations, ordered weighted averaging operations. **15 Lectures**

Unit IV: Fuzzy numbers, characterization theorem, linguistic variables, arithmetic operations on intervals, arithmetic operations on fuzzy numbers, lattice of fuzzy numbers, fuzzy equations. **15 Lectures**

Unit V: Examples, seminars, group discussions on above four units. **15 Lectures**

Recommended Books:

1. George J. Klir, Bo Yuan, Fuzzy sets and Fuzzy Logic. Theory and Applications, PHI, Ltd.2000

Reference Books:-

1. M.Grabish, Sugeno, and Murofushi Fuzzy Measures and Integrals: Theory and Applications, PHI, 1999.
2. H.J.Zimmerermann, Fuzzy Set Theory and its Applications, Kluwer, 1984.
3. M. Hanss, Applied Fuzzy Arithmetic, An Introduction with Engineering Applications, Springer- Verlag Berlin Heidelberg 2005.
4. M. Ganesh, Introduction to Fuzzy Sets & Fuzzy Logic; PHI Learning Private Limited, New Delhi 2011.
Bojadev and M. Bojadev, Fuzzy Logic and Application, World Scientific Publication Pvt.Ltd. 2007.

M.Sc. Mathematics (Distance Mode) (Part II) (Level-6.5) (Semester III) (NEP-2020)
(Introduced from Academic Year 2026-27)
Title of Course: FLUID DYNAMICS

Total Credits: 04

Course outcomes: to enable the student to Course Outcomes:-

- 1) explain physical properties of fluids.
- 2) represent general motion of fluid element.
- 3) test possible fluid flows, classify rotational and irrotational fluid flows .
- 4) transform stress components from one co-ordinate system to another, establish relation between strain and stress tensor..
- 5) develop constitutive equations for Newtonian fluids, conservation laws and Navier-Stokes equation.
- 6) determine the complex potential and images of a two dimensional source, sink and doublet.

Unit I: Physical properties of fluids and kinematics of fluids: Concepts of fluids, continuum hypothesis, density, specific weight, specific volume, pressure, viscosity, surface tension, Eulerian & Lagrangian methods of description of fluids, Equivalence in Eulerian and Lagrangian methods, General motion of a fluid element, Integrability and compatibility conditions, general orthogonal curvilinear co-ordinate system, stream lines, path lines, streak lines, stream function, vortex lines, circulation, condition at rigid boundary. **15 Lectures**

Unit II: Stresses in fluids: Strain rate tensor, stress tensor, normal stress, shearing stress, symmetry of stress tensor, Transformation of stress components from one co-ordinate system to another, principle axes and principle values of stress tensor. Newtonian fluids, non Newtonian fluids, purely viscous fluids, Constitutive equations for Newtonian fluids. **15 Lectures**

Unit III. Conservation laws: Equation of conservation of mass, equation of conservation of momentum, Navier-Stokes equation, equation of moment of momentum, Equation of energy, Basic equations in different co-ordinate systems: Cartesian co-ordinate system, Cylindrical co-ordinate system, Spherical co-ordinate system, boundary conditions. **15 Lectures**

Unit IV. Rotational and irrotational flows: Theorems about rotational and irrotational flows: Kelvins minimum energy theorem, Kinetic energy of finite and an infinite fluid, uniqueness of irrotational flows, Bernoulli's equation, Bernoulli equation for irrotational flows, Two dimensional irrotational incompressible flows, Blasius theorem, circle theorem, Sources and sinks, sources, sinks and doublets in two dimensional flows, Methods of images. **15 Lectures**

Recommended Books:

- a. R. K. Rath, An introduction to Fluid Dynamics, Oxford & IBH publishing company.
- b. F. Chorlton, Text book of Fluid Dynamics, CHS Publishers, Delhi, 1985.

Reference Books:

1. L. D. Landay and E. M. Lipschitz, Fluid Mechanics, Pergamon Press London 1985.
2. Kundu and Cohen, Fluid Mechanics, Elsevier pub. 2004.
3. L M Milne-Thomson, Theoretical Hydrodynamics, Macmillan Education Ltd, London 1986.

M.Sc. Mathematics (Distance Mode) (Part II) (Level-6.5) (Semester III) (NEP-2020)
(Introduced from Academic Year 2026-27)
Title of Course: Research Project
Total Credits: 04

M.Sc. Mathematics (Distance Mode) (Part II) (Level-6.5) (Semester IV) (NEP-2020)
(Introduced from Academic Year 2026-27)
Title of Course: INTEGRAL EQUATIONS
Total Credits: 04

Course outcomes: to enable the student to Course Outcomes:-

1. classify the linear integral equations and demonstrate the techniques of converting the initial and boundary value problem to integral equations and vice versa.
2. develop the technique to solve the Fredholm integral equations with separable kernel.
3. develop and demonstrate the technique of solving integral equations by successive approximations, using Laplace and Fourier transforms
4. to analyze the properties of symmetric kernel.
5. to prove Hilbert Schmidt Theorem and solve the integral equation by applying it.

UNIT– I Classification of linear integral equations, conversion of initial value problem to Volterra integral equation, conversion of boundary value problem to Fredholm integral equation, separable kernel, Fredholm integral equation with separable kernel, Fredholm alternative. Homogeneous Fredholm equations and eigen functions.

15 Lectures

UNIT –II Solutions of Fredholm integral equations by: Successive approximations method, successive substitution method, Adomian decomposition method, modified decomposition method, resolvent kernel of Fredholm equations and its properties, solutions of Volterra integral equations, successive approximations method, Neumann series, successive substitution method. **15 Lectures**

UNIT –III Solution of Volterra integral equations by Adomian decomposition method and the modified decomposition method, resolvent kernel of Volterra equations and its properties, convolution type kernels, applications of Laplace and Fourier transforms to solutions of Volterra integral equations, symmetric kernels, fundamental properties of eigen values and eigen functions for symmetric kernels, expansion in eigen functions and bilinear form. **15 Lectures**

UNIT – IV Hilbert Schmidt Theorem and its consequences, solution of symmetric integral equations, operator method in the theory of integral equations, solution of Volterra and Fredholm integro-differential equations by Adomian decomposition method. Green's function: Definition, construction of Green's function and its use in solving boundary value problems. **15 Lectures**

Recommended Books:

1. R. P. Kanwal, Linear Integral Equation: Theory and Technique, Birkhauser 2012.
2. Abdul-Majid Wazwaz, Linear and Nonlinear Integral Equations-Methods and Applications, Springer, 2011

Reference Books:

1. L. G. Chambers, Integral Equations- A Short Course, International Text Book Company, 1976.
2. M. A. Krasnov, et.al. Problems and exercises in Integral equations, Mir Publishers, 1971.
3. J. A. Cochran, The Analysis of Linear Integral Equations, Mc Graw Hill Publications, 1972.
4. C. D. Green, Integral Equation Methods, Thomas Nelson and sons, 1969.

**M.Sc. Mathematics (Distance Mode) (Part II) (Level-6.5) (Semester IV) (NEP-2020)
(Introduced from Academic Year 2026-27)**

Title of Course: FIELD THEORY

Total Credits: 04

Course outcomes: to enable the student to

- 1) determine the basis and degree of a field over its subfield.
- 2) construct splitting field for the given polynomial over the given field.
- 3) find primitive n^{th} roots of unity and n^{th} cyclotomic polynomial.
- 4) make use of Fundamental Theorem of Galois Theory and Fundamental Theorem of Algebra to solve problems in Algebra.
- 5) apply Galois Theory to constructions with straight edge and compass.

UNIT-I: Algebraic Extensions of fields Adjunction of roots, Algebraic extensions, Algebraically closed fields. **15 Lectures**

UNIT-II: Normal and Separable extensions Splitting fields, Normal extensions, Multiple roots, Finite fields, Separable extensions. **15 Lectures**

UNIT-III: Galois Theory Automorphism groups and fixed fields, Fundamental theorem of Galois theory, Fundamental theorem of algebra, Roots of unity and cyclotomic polynomials, Cyclic extensions. **15 Lectures**

UNIT-IV: Applications of Galois theory Polynomials solvable by radicals, Symmetric functions, Constructions by ruler and compass. **15 Lectures**

Recommended Book(s):

1. Bhattacharya, Jain and Nagpal, Basic Abstract Algebra, 2nd edition, Cambridge University Press, UK.(Asian edition) 2005.

Reference Books:

1. Nathan Jacobson, Basic Algebra I, second edition, W. H. Freeman and company, New York
2. I. N. Herstein, Topics in Algebra, Wiley Eastern Ltd.
3. U. M. Swamy, A. V. S. N. Murthy, Algebra: Abstract and Modern, Pearson Education, 2012
4. John Fraleigh, A first course in Abstract Algebra (3rd edition) Narosa publishing house, New Delhi
5. I. T. Adamson, Introduction to Field Theory, second edition, Cambridge University Press, 1982.
6. M. Artin, Algebra, PHI, 1996. Ian Stewart, Galois Theory, CRC Publication.

**M.Sc. Mathematics (Distance Mode) (Part II) (Level-6.5) (Semester IV) (NEP-2020)
(Introduced from Academic Year 2026-27)**

Title of Course: PARTIAL DIFFERENTIAL EQUATION

Total Credits: 04

Course outcomes: to enable the student to

1. classify partial differential equations and transform into canonical form
2. solve linear partial differential equations of both first and second order.
3. solve boundary value problems for Laplace's equation, the heat equation, the wave equation by separation of variables, in Cartesian, polar, spherical and cylindrical coordinates.
4. apply method of characteristics to find the integral surface of a quasi linear partial differential equations.
5. establish uniqueness of solutions of partial differential equations.

Unit I:

Curves and surfaces, First order Partial Differential Equations, classification of first order partial differential equations, classifications of Integrals, Linear equations of first order. Pfaffian differential equations, Criteria of Integrability of a Pfaffian differential equation. Compatible systems of first order partial differential equations. **15 Lectures**

Unit II:

Charpits method, Jacobi method of solving partial differential equations, Cauchy Problem, Integral surfaces through a given curve for a linear partial differential equations, for a non-linear partial differential equations. Method of characteristics to find the integral surface of a quasi linear partial differential equations. **15 Lectures**

Unit III:

Second order Partial Differential Equations. Origin of Partial differential equation, wave equations, Heat equation. Classification of second order partial differential equation, Vibration of an infinite string (both ends are not fixed), Physical Meaning of the solution of the wave equation. Vibration of a semi infinite string, Vibration of a string of finite length, Method of separation of variables, Uniqueness of solution of wave equation. Heat conduction Problems with finite rod and infinite rod.

15 Lectures

Unit IV:

Families to equipotential surfaces, Laplace equation, Solution of Laplace equation, Laplace equation in polar form, Laplace equation in spherical polar coordinates. Kelvin's inversion theorem. Boundary Value Problems: Dirichlet problems and Neumann problems, Maximum and minimum principles, Stability theorem. Dirichlet Problems and Neumann problems for a circle, for a rectangle and for a upper half plane, Duhamel's Principle. **15 Lectures**

Recommended Book:

1. **T. Amarnath:** An Elementary Course in Partial Differential Equations, 2nd edition, Narosa publishing House(2012).

Reference Books:

1. Mark Pinsky: Partial Differential Equations and Boundary-value Problems with Applications, AMS, 3rd edition(2011).
2. I. N. Sneddon: Elements of Partial Differential Equations, McGraw Hill Int.
3. Fritz John: Partial Differential Equations, Springer(1952).

M.Sc. Mathematics (Distance Mode) (Part II) (Level-6.5) (Semester IV) (NEP-2020)

(Introduced from Academic Year 2026-27)

Title of Course: FUZZY RELATIONS & LOGIC

Total Credits: 04

Course outcomes: to enable the student to Course Outcomes:-

1. acquire the concept of fuzzy relations.
2. understand the basic concepts of fuzzy logic and fuzzy algebra.
3. develop the skills of solving fuzzy relation equations.
4. construct approximate solutions of fuzzy relation equations. 5.solve problems in Engineering and medicine.

Unit I

Projections and cylindrical extensions, binary fuzzy relations on single set, fuzzy equivalence relations, fuzzy compatibility relations, fuzzy ordering relations, fuzzy morphisms sup-i composition and inf-wi composition. **15 Lectures**

Unit II

Fuzzy relation equations, problem partitioning, solution methods, fuzzy relational equations based on sup-i and inf-wi compositions, approximate solutions. **15 Lectures**

Unit III

Fuzzy propositions, fuzzy quantifiers, linguistic hedges, inference from conditional fuzzy propositions, qualified and quantified propositions. **15 Lectures**

Unit IV

Fuzzy algebra, fuzzy groups and fuzzy rings and their basic properties . **15 Lectures**

Recommended Books:

1. George J Klir, Bo Yuan, Fuzzy Sets and Fuzzy Logic. Theory and applications, PHI.Ltd. (2000)
2. John Mordeson, Fuzzy Mathematics, Springer, 2001

Reference Books:

- 1.M.Grabish, Sugeno, and Murofushi, Fuzzy Measures and Integrals: Theory and Applications PHI, 1999.
2. H.J.Zimmermann, Fuzzy set :Theory and its Applications, Kluwer, 1984.
- 3.M. Ganesh, Introduction to Fuzzy sets & Fuzzy Logic; PHI Learning Private Limited, New Delhi. 2011.

.M.Sc. Mathematics (Distance Mode) (Part II) (Level-6.5) (Semester IV) (NEP-2020)

(Introduced from Academic Year 2026-27)

Title of Course: COMPUTATIONAL FLUID DYNAMICS

Total Credits: 04

1. **Course outcomes: to enable the student to Course Outcomes:-**

2. classify partial differential equations (PDEs) mathematically and physically.
3. apply separation of variables method for solving initial boundary value problems.
4. construct forward, backward and centered difference formulae.
5. test stability, convergence & consistency of finite difference schemes.
6. solve problems in CFD using computer software.

Unit I

Comparison of experimental, theoretical and numerical approaches, governing equations, continuity equation, momentum equation (inviscid, viscous flows) energy equation, incompressible viscous flow, laminar boundary layer flow. Introduction of Scilab to solve problems in CFD. **15 Lectures**

Unit II Nature of a well posed problems, physical classification and mathematical

classification of partial differential equations: hyperbolic, parabolic, elliptic partial differential equations (PDEs). Conversion of PDE to canonical form. Traditional solution method: separation of variables. Transformation relationships, evaluation of transformation parameters. Forward, backward, centered difference formulae, generalized co-ordinates structure of first and second order PDE. **15 Lectures**

UNIT –III:

Stability, convergence and consistency of finite difference scheme, Explicit, Implicit and Crank- Nicolson methods for heat equation, Von Neumann analysis, Euler's explicit method, upstream differencing method, Lax method, Euler implicit method for wave equation. Finite difference representation of Laplace equation, five point method. Problem solving by Scilab: codes of explicit methods for heat and wave equations and five point method for Laplace equation. **15 Lectures**

UNIT – IV:

Finite difference schemes for Burgers equation (inviscid): Lax method, implicit methods. Finite difference schemes for Burgers equation (viscous): FTCS method, Briley – McDonald method. Convergence and stability, grid generation, orthogonal grid generation, order of magnitude analysis, reduced Navier-Stokes equations, boundary layer flow. **15 Lectures**

Recommended Book(s):

1. Dale A Anderson, John Tannehill, R. H. Fletcher, Computational Fluid Mechanics and Heat Transfer, Hemisphere publishing corporation, 1984.
2. G D Smith, Numerical Solution of Partial Differential Equations: Finite Difference Methods, Oxford Applied Mathematics and Computing Science Series, Oxford University Press, 1985.
3. C. A.J. Fletcher, Computational Techniques for Fluid Dynamics Vol. I & II, Springer Verlag Berlin Heidelberg, 1988.

Reference Books:

1. T J Chung, Computational Fluid Dynamics, Cambridge University Press, 2002.

**M. Sc. Mathematics (Distance Mode) (Part II) (Level-6.5) (Semester IV) (NEP-2020)
(Introduced from Academic Year 2024-25)**

Title of Course: Research Project

Total Credits: 06

F. Scheme of Teaching

- 1) Synchronous session as per the scheduled of Online education Shivaji University, Kolhapur.
- 2) e-Content videos.
- 3) Discussion Forum

G. Examination Pattern

Theory:

- **For 4 credit course:**

University examinations shall be of 80 marks and internal examination of 20 marks

- **For 2 credit course:**

University examinations shall be of 40 marks and internal examination of 10 marks

Practical:

Practical evaluation shall be through university appointed panel of one external and one internal examiner.

On Job Training/Field Project:

Assessment criteria of OJT/FP shall be based on final report, presentation and oral examination.

1. Student has to submit final report based on the work carried out during OJT/FP.
2. Student has to make a presentation of the work carried out during OJT/FP in front of examiner panel.
3. Student has to give midterm presentation of the work carried out during OJT/FP.

Research Project:

- **For 4 credit course:**

Assessment criteria of research project shall be based on final report/ dissertation, presentation and oral examinations. University examinations shall be of 80 marks and internal examination of 20 marks.

1. Project viva by university appointed external and internal examiners.
2. Internal evaluation will be carried out by internal guide.

- **For 6 credit course:**

Assessment criteria of research project shall be based on final report/ dissertation, presentation and oral examinations. University examinations shall be of 100 marks and internal examination of 50 marks.

1. Project viva by university appointed external and internal examiners.
2. Internal evaluation will be carried out by internal guide.

Research Methodology:

University examinations shall be of 80 marks and internal examination of 20 marks.

H. Nature of Question Paper and Scheme of Marking: Theory:

(I) Nature of the Theory Question Papers for courses of 4 credits:

1. There shall be 7 questions each carrying 16 marks.
2. Question No.1 is compulsory. It consists of objective type questions.
3. Students have to attempt any four questions from Question No.2 to Question No.7.
4. Question No. 2 to Question No.7 shall consist of short/descriptive-answer type sub-questions.
5. Duration of university theory examination of 80 marks shall be of 3 hours.

(II) Nature of the Theory Question Papers for courses of 2 credits:

1. There shall be 4 questions.
2. Question No.1 is compulsory of objective type questions carrying 8 marks.
3. Students have to attempt any two questions from Question No.2 to Question No.4.
Each question carries 16 marks.
4. Duration of university theory examination of 40 marks shall be of 2 hours.

Practical:

University examinations shall be of 80 marks and internal examination of 20 marks.

- 1) Duration of Practical Examination shall be of 3 hours.
- 2) There shall be three questions out of which any two questions to be attempted and each question carries 25 Marks.
- 3) The final practical examination shall be conducted by the university appointed examiners (External and internal). The pattern of final Practical Examination shall be as follows:

1	Coding and Execution of Program	50 Marks
2	Viva-voce	20 Marks
3	Journal	10 Marks
4	Total	80 Marks

The practical examination will be conducted semester wise in order to maintain the relevance of the respective theory course with laboratory course.

I. Procedure for Admissions, Curriculum Transaction and Evaluation:

Admissions:

Eligibility:

i) Any candidate who has successfully completed B. Sc. with a principal subject Mathematics or with a subsidiary subject Mathematics of this University or of any other statutory University recognized by UGC, New Delhi.

OR

ii) Any candidate who has successfully completed the Bachelor's degree with Mathematics courses at Second Year of Bachelor's degree of this University or of any other statutory University recognized by UGC, New Delhi.

OR

iii) Any candidate who has successfully completed level 5.5 with major or minor subject as Mathematics of this University or of any other statutory University recognized by UGC, New Delhi.

Eligibility for level 6.5:

i) Any candidate who has successfully completed Post Graduate Diploma (Level 6.0) in Mathematics of this University or of any other statutory University recognized by UGC, New Delhi.

OR

ii) Any candidate who has successfully completed Bachelor's Degree (Honours / Honours with Research) (Level 6.0) with principal / major subject Mathematics of this University or of any other statutory University recognized by UGC, New Delhi.

OR

iii) Completed all requirements of the relevant Post Graduate Diploma (Level 6.0) in Mathematics.

J. Intake: No limit

K. Documents Required for the Admission:

- Color scan copy of SSC, HSC and Graduation mark sheets.
- Caste Certificate (If applicable).
- Two identity card size photographs along with its scan copy of 09 KB and Scan signature of the student 09KB.
- TC/MC (whichever applicable). In case of TC/MC is not available at the time of admission student will get provisional admission. Grace period of 30 days will be given to submit the original TC/MC otherwise provisional admission gets cancelled no fee will be refunded.

L. Curriculum Transaction:**Web-based Tools:**

- e-Books
- PDFs
- Video Lectures (Synchronous and Asynchronous Type)
- OERs as per Need of Programme etc.

M. Academic Calendar:

Part- I		
Sr. No.	Programme Events	Months
A.	Admission Process	15 th June, 2025 to 30 th June, 2025
B.	Induction Programme	1 st July, 2025 to 15 th July, 2025
C.	Dissemination of Course Contents and Internal Evaluation (Semester-I)	16 th July, 2025 to 15 th November, 2025
D.	Semester - I Examination	20 th November, 2025 to 30 th November, 2025
E.	Introductory Session (Semester-II)	10 th December, 2025 to 15 th December, 2025
F.	Dissemination of Course Contents and Internal Evaluation (Semester-II)	16 th December, 2025 to 15 th April, 2026
G.	Semester – II Examination	16 th April, 2026 to 30 th April, 2026

N. Programme Fees:

M.Sc. Mathematics through Online Mode Programme fees; learners have to pay through Internet Banking, Credit Card/ Debit Card (RuPay/Visa/MasterCard/Maestro), Internet Banking, IMPS, Cash Cards/ Mobile Wallets (additional service charges, as per rules, shall be applicable in addition to the application form processing fees). This fee is non-refundable and non-transferable under any circumstances.

₹ 30,000 /- (Excluding exam and other fees)
For 1 year

O. Requirement of the laboratory support and Library Resources:**a. Requirement of the Laboratory Support:**

Nil

b. Requirement of Library Resources:

e-Books, e-journals, Online Subscriptions of Digital Books/ Library etc.

P. Cost estimate of the programme and the provisions:

Sr.	Particulars	Description	Amounts
1	e- Tutorial (Videos / Audios / Presentation, etc.) Required Videos = 864 Videos Required Minutes = 8640	For 10.00 Minutes Video Including Transcript and PPT approved rate is as Rs. 2,000/-	17,28,000/-
2	Development of Question Banks Total 48 Question bank sets * Rs. 500/-	Question paper set comprising of Case studies, Short/Long Answer, MCQs etc.	24,000/-
3	e-Content (SLMs/e-books/manual/Handbooks etc.)	For Unit Writing, Editing, DTP and allied activities	Nil
4	Discussion Forum/ Live Sessions	4 Live Sessions of each course	Nil
5	Employees Salary 1 Programme Co-Ordinator * 36,000/- 4 course Co-Ordinators * 36,000/- 1 mentor * 36,000/-	For Coordinating and Live Sessions	23,76,000/-
6	Digital Marketing	Rs. 3,00,000/- for 3 Months / 3 online courses	1,00,000/-
7	Advertising in Newspaper	Rs. 2,00,000/- / 3 online courses	67,000/-
8	Premiere Pro License	Rs. 80,000/- / 3 online courses	27,000/-
9	Learning Management System (LMS)	Rs. 25,00,000/- / 3 online courses	8,40,000/-
10	Personal Computers	Rs. 60,000/- * 06 Employees	3,60,000/-
	Miscellaneous Expenses		1,50,000/-
		Total Cost	56,72,000/-

Q. Quality assurance mechanism and expected programme outcomes:

After completion of M.Sc. (Mathematics) programme, distance learner can able to,

- 1) Solve any mathematical problem by properly applying mathematical principles.
- 2) Apply their knowledge in their current profession.
- 3) Make their careers in analysis of mathematical data in government and non-government organization.
- 4) Undertake research activity of new simplex methods in Mathematics.



Estd. 1962
"A++" Accredited by
NAAC (2021)
With CGPA 3.52

**SHIVAJI UNIVERSITY, KOLHAPUR - 416004,
MAHARASHTRA**

PHONE: EPABX-2609000, www.unishivaji.ac.in, bos@unishivaji.ac.in

शिवाजी विद्यापीठ, कोल्हापूर - ४१६००४, महाराष्ट्र

दूरध्वनी-ईपीएबीएक्स - २६०९०००, अभ्यासमंडळे विभाग दूरध्वनी ०२३१-२६०९०९४



Ref./SU/BOS/Com & Mgt./399

Date : 30/06/2025

To,

The Principal/Co-ordinator/Director
All Affiliated (Commerce & Management) Colleges/ Institutions,
Shivaji University, Kolhapur

**Subject :Regarding structure and syllabi of M. Com. Part-I (Sem. I & II) (Online Mode)
degree programme under the Faculty of Commerce & Management as per
National Education Policy, 2020 (NEP 2.0)**

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the University authorities have accepted and granted approval to the structure and syllabi of **M. Com. Part-I (Sem. I & II) (Online Mode)** under the Faculty of Commerce & Management as per National Education Policy, 2020 (NEP 2.0)

This syllabi shall be implemented from the academic year **2025-2026** onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website www.unishivaji.ac.in (Online Syllabus).

You are therefore, requested to bring this to the notice of all Students and Teachers concerned.

Thanking you,

Yours faithfully,

(Dr. S. M. Kubal)
Dy. Registrar

Encl : As above

Copy to,

1. Dean, Faculty of Commerce & Management
2. Chairman, BOS under Faculty of
Commerce & Management
3. Director, BOEE
4. Appointment Section
5. P. G. Admission Section
6. O.E. 1 Section
7. Affiliation Section (U.G./P.G.)
8. Computer Center/I.T.
9. Eligibility Section
10. Distance Education
11. P.G. Seminar Section
12. IQAC Section

for information

for information and necessary action.

SHIVAJI NIVERSITY, KOLHAPUR



ESTD. 1962
NAAC A++ Grade

Faculty of Commerce and Management

Master of Commerce (M. Com.)

Online Mode

(Structure and Syllabus in accordance with
National Education Policy to be implemented
from Academic Year 2025-26)

Shivaji University, Kolhapur
Master of Commerce (M. Com.) Online Mode
Syllabus, Structure, Rules and Regulations (in
accordance with National Education Policy
to be implemented from Academic Year 2025-26)

1. INTRODUCTION:

The stream of commerce education has gained lot of importance in the recent past. Due to globalization trade and aids to trade has not remained in the limited horizon. The facets of trade need to be studied beyond geographical barriers and culture. Therefore, the time has come to think commerce education from the perspective of global education. The domains falling in commerce like accountancy, costing, taxation as well as business administration have importance in every walk of life for an entrepreneur. The whole commerce education itself is an interdisciplinary in nature. Therefore, recent trends in those subjects and their applications in the business world need to be correlated. While restructuring this curriculum as per the National Education Policy 2020, more focus is on practical applications of various concepts being taught under the faculty of commerce and management.

2. PROGRAMME OUTCOMES: PROGRAMME OUTCOMES (POs)

Trained professionals for industry and commerce

PO 1: To acquaint the learners with skills and capabilities to handle managerial and administrative responsibilities

PO 3: To demonstrate the decision-making ability by application of theories in real life business situations

PO 4: To imbibe entrepreneurial temperaments, skills and capabilities among the learners

PO 5: To demonstrate the knowledge of commerce and industry in business applications

PO 6: To acquaint the knowledge of accounting, costing, taxation and administration.

PO 7: To acquaint with conventional and contemporary thoughts, ideas and practices

PROGRAMME SPECIFIC OUTCOMES (PSOs)

- **PSO1:** In depth understanding of core areas of accounting-financial accounting, cost accounting, management accounting, international accounting, investments, security and tax planning, business research methods
- **PSO2:** Application of knowledge in problem solving, decision making
- **PSO3:** Working in teams as well as taking initiative and leadership responsibilities
- **PSO4:** To apply modern tools techniques and methods
- **PSO5:** Applying inter personal communication skills
- **PSO6:** Ability to handle different functional areas of accounting, finance, taxation and administration.

3. DURATION:

The revised guidelines and rules shall be implemented gradually as mentioned below and the duration of the programme has been mentioned below:

Postgraduate Programme:			
Level 6.0	Postgraduate Diploma (One year or two semesters)	M. Com. Part-I	2025-26
Level 6.5	Master's Degree(Two years or four semesters)	M. Com. Part-II	2026-27
Level 6.5	Master's Degree (One year or two semesters after obtaining A four-year Bachelor's Degree (Honours /Research)	M. Com. Part-II	2027-28

(If the candidate wants to exit after a certain level, the Awards after completing specific level will be: Postgraduate Diploma in Commerce and M. Com. for Level- 6.0 and Level-6.5 respectively. Other provisions for multiple entry and exit as per the university's rules and regulations are applicable).

4. ELIGIBILITY FOR ADMISSION:

The candidate completed Three Years B. Com. Degree (or Level-5.5 of NEP framework) will be eligible for Online M. Com. Part-I (Level 6). The candidate completed Four Year B. Com. (Hon./Research) (Level-6) will be eligible for Online M. Com. Part-II (Level 6.5) directly. [The criteria for admission is as per the rules and regulations set from time to time by the university, government and other relevant statutory authorities.]

5. MEDIUM OF INSTRUCTION:

The medium of instruction shall be ENGLISH.

6. Pattern of M. Com. Programme:

Combination of internal assessment and semester-end examination for Online M. Com. will be 80:20 pattern shall be applicable for each theory paper in each semester wherein 80 marks shall be for University Semester-end examination and 20 marks for internal assessment except Project Work and Apprenticeship. In that case Project Work will have 60 marks and Viva-voce will have 40 marks and for Apprenticeship total 150 marks will be their which will be assessed by internal guide and external mentor from industry or community engagement.

7. **Weightage:** There shall be Two Year M. Com. Programme with 160 Credits. The candidate wishes to attempt for Four Year B. Com. (Hon./Research) may opt for 4th year which will have 38 credits, hence, Four Year B. Com. Programme will require 198 credits. (Please refer the university regulations and structure of the programme for details).

8. Structure: The Structure of Online M. Com. Programme is given below:
(As per Government of Maharashtra Guidelines GR No. एन ई पी -२०२२/७. १. ०९/ वि व श-३
वि शकाना वि द. १६ मे २०२३)

Year	Level	Sem. (2 Yr)	Major		RM	OJT/ FP	RP	Cum. Credi t
			Mandatory	Electives				
I	6.0	Sem. I	DSC1 (4) DSC2 (4) DSC3 (4) DSC4 (2)	DSE1(4)	RM (4)	-	-	22
			14	04	04	-	-	22
		Sem. II	DSC5 (4) DSC6 (4) DSC7 (4) DSC8 (2)	DSE2 (4)		OJ T (4)		22
			14	04	-	04	-	22
			28	08	04	04	-	44
		Exit Option: Award of P. G. Diploma (44 Credits)						
II	6.5	Sem. III	DSC9 (4) DSC10 (4) DSC11 (4) DSC12 (2)	DSE3 (4)			RP (4)	22
			14	04	-	-	04	22
			DSC5 (4) DSC6 (4) DSC7 (4)	DSE4 (4)			RP (6)	
			12	04	-	-	06	22
			26	08	-	-	10	44
			54	16	04	04	10	88
Award of P. G. Degree (88 Credits) [for 2 year P. G. after 3 year UG programme or one year after 4 year UG programme]								

Online M. Com. Programme Structure for Semester I and II

Semester - I											
Teaching Scheme					Examination Scheme						
Sr. No.	Theory (TH)				Practical (PR)	Semester - end Examination (SEE)			Internal Assessment (IA)		
	Course Type	No. of Lectures per Week	Hours	Credits		Paper Hours	Max	Min	Internal	Max	Min
1	DSC1	4	4	4		3	80	32	--	20	08
2	DSC2	4	4	4		3	80	32	--	20	08
3	DSC3	4	4	4		3	80	32	--	20	08
4	DSC4	2	2	2		2	40	16	--	10	04

5	DSE1	4	4	4	3	80	32	--	20	08
6	RM	4	4	4	3	80	32	--	20	08
Total		22	22	22		440		--	110	
SEE + IA: 440 + 110 = 550										

Semester - II												
Teaching Scheme							Examination Scheme					
Sr. No.	Theory (TH)				Practical (PR)		Semester - end Examination (SEE)			Internal Assessment (IA)		
	Course Type	No. of Lectures	Hours	Credits	Hrs.	Credits	Paper Hours	Max	Min	Internal	Max	Min
1	DSC5	4	4	4	--	--	3	80	32	--	20	08
2	DSC6	4	4	4			3	80	32	--	20	08
3	DSC7	4	4	4			3	80	32	--	20	08
4	DSC8	2	2	2			2	40	16	--	10	04
5	DSE2	4	4	4			3	80	32	--	20	08
6	OJT/FP	-	-	-	4	4	RS*	80	32	VV#	20	08
Total		18	18	18	4	4		440			110	
										SEE + IA: 440 + 110 = 550		
Semester I and II		40	40	40	4	4		880	-	SEE + IA: 880 + 220 = 1100		
Total credits required for completing. M. Com. I: 44 credits												

RS = Report Submission: Certified Submission of Dissertation/OJT

Report/Project Report # VV= Viva-Voce/Presentation

9. List of Courses:

List of Courses for Online M. Com. Part - I (Semester - I & II) is given in the annexure.

10. Scheme of Examination:

The Question paper in each Semester for each theory course (paper) for Online M. Com. (all Semesters) shall be of 80 marks. Total marks for each course shall be based on continuous assessments and semester-end examination. Combination of internal assessment and semester-end examination for M. Com. will be as follows:

Total marks for each course = 100

Internal Assessment = 20

Semester-end Examination = 80

Internal Assessment Process shall be as follows:

(a) The Internal Assessment (for 20 % Marks) shall be based on test, assignment, seminar, case study, field work, project work etc. This assessment process should be conducted

after completing 50% of syllabus of the course/s.

- (b) In case a student has failed to attend for internal assessment through online mode on scheduled date, it shall be deemed that the student has dropped the test. However, in case of student who could not take the test on scheduled date due to genuine reasons, such a candidate may appeal to the Programme Coordinator. The Programme coordinator in consultation with the concerned course coordinator shall decide about the genuineness of the case and decide to conduct special test to such candidate on the date fixed by the concerned Programme Coordinator but before commencement of the concerned semester-end examination.

List of the Courses for Online M. Com. Semester-I and II

Sr. No.	Course Code	Course Category	Title of the Course	Credits
1	MMA-I	Major	Adv. Accountancy Paper-I	4
2	MMA-II	Mandatory	Adv. Accountancy Paper-II (Management Accounting)	4
3	MMA-III		Adv. Accountancy Paper-III (Taxation)	4
4	MMA-IV		Adv. Accountancy Paper-IV (Introduction to Income Tax)	2
5	EBM-I	Elective	Business Management	4
6	EME-I		Managerial Economics	4
7	MRM	Minor	Research Methodology	4
8	MMA-V	Major	Adv. Accountancy Paper-V	4
9	MMA-VI	Mandatory	Adv. Accountancy Paper-VI (Cost Accounting)	4
10	MMA-VII		Adv. Accountancy Paper-VII (Auditing)	4
11	MMA-VIII		Adv. Accountancy Paper-VIII (Introduction to Auditing)	2
12	EBM-II	Elective	Organization Behavior	4
13	EME-II		International Business	4
14	OJT	OJT	On the job training	4

Shivaji University, Kolhapur
Syllabus of Online M. Com.
Faculty of Commerce and Management
Syllabus in accordance with NEP2020
Introduced from Academic Year 2025-26
Online M. Com. – I Semester - I

**Title of Paper-Advanced Accountancy -Paper I
(DSC-1) (MMAI)**

Course Outcomes

After Studying this course, students shall be able to:

1. Understand concept of Accounting Standards and practical implications of AS-1 and AS-2
2. Familiar with preparing final accounts of service industries.
3. Demonstrate preparation of consolidated financial statements of holding company and its subsidiaries.
4. Understand preparation of financial statements of Insurance Companies with Schedules.

Total 60 Hours

4 Credits

Unit	Contents	No. of Hours
I	Introduction to Accounting Standard- Theory- Meaning, Objectives and Need of Accounting Standard, Introduction to IFRSs, Distinction between GAAPs and IFRSs, Disclosure of Accounting Policies (AS-1) and Valuation of Inventories(AS-2) Practical- a)Visit Chartered Accountant's Office and discuss the ideas of accounting standards, IFRSs and GAAPs b) Arrange group discussion or seminar on AS-1and AS-2	15
II	Accounting for Holding Company Theory- Group Accounts with one subsidiary Co.-AS-21(Vertical Form only) Practical Collect consolidated financial statements from the website of any group of companies and arrange group discussion on it.	15
III	Accounting of Life Insurance Companies Theory- Introduction, Accounting forms, Financial Statements with schedules, IRDA Regulations related to financial statements of Life insurance companies. Practical- a) Download financial statements of Life Insurance Co. and discuss on them in the classroom. b) Arrange visit to Life insurance company branch office to know their accounting process	15

IV	Accounting of General Insurance Companies Theory -Introduction, Accounting forms, Financial Statements with schedules, IRDA Regulations related to financial statements of General insurance companies. Practical – a) Download financial statements of General insurance company and discuss on them in the classroom. b) Arrange visit to General insurance company branchoffice to know their accounting process	15
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Reference Books:

- 1) Gupta, S. C.; Gupta, M. P.; Shukla, M. C.; Agrawal, B. M. and Grewal, T. S.(2019). Advanced CorporateAccounting, S. Chand & Company, New Delhi.
- 2) Shukla, M. C.; Grewal, T. S. and Gupta, S. C.; (2016). Advanced Accounts, S.Chand & Company, New Delhi.
- 3) Arulnandan, M. A. and Raman, K. S. (2018). Advanced Accountancy (Corporate Accounting) Vol. II,Himalaya Publishing House, Mumbai.
- 4) Gupta, R. L. andRadhaswamy, M. (2018). Advanced Accountancy Vol. II,Sultan Chand and Sons; New Delhi.
- 5) Maheshwari, S. N.; Maheshwari, Suneel and Maheshwari, Sharad K. (2018).Corporate Accounting. Vikas Publication House, New Delhi.
- 6)Shukla M. C. ; Grewal T.S. and Gupta S.C. - Advanced Accounts; S.Chand and Co. New Delhi.
- 7) Jain, S. P.; Narang, K. L.; Agrawal, Simmi and Sehgal, Monik (2018). Advanced Accountancy (Corporate Accounting) Vol. II, Kalyani Publishers, New Delhi.
- 8) Hanif, M. and Mukharjee, A (2018). Modern Accountancy Vol. II, McGraw HillEducation India (Private) Ltd., Noida.

Suggested Additional Readings: (if web source then provide url)

- 1) Chakraborty, Hrishikesh, Advanced Accountancy, Oxford University Press
- 2) Original documents of Accounting Standards issued by ICAI
- 3) Companies Act 2013

Suggested Research Journal:

- 1) Indian Journal of Accounting
- 2) Indian Journal of Commerce
- 3) The Chartered Accountant
- 4) Management Accountant

	Shivaji University, Kolhapur Nature of Question Paper M.Com. I Semester I (NEP) Advanced Accountancy –Paper I	
Marks: 80	Duration: 3 hours.	
Instructions:		
1. Question number 1 and 2 are compulsory.		
2. Attempt any three questions from question number 3 to 6		
3. Use of Calculator is allowed		
Q. 1 a. Choose the appropriate alternative		(10)
b. True or false		(6)
Q.2 Short Notes (any 4 out of 6)		(16)
Q.3 Practical Problem		(16)
Q.4 practical problem		(16)
Q.5 practical problem		(16)
Q. 6. a. Short problem		(8)
b. Short Problem		(8)

(Theory questions 40% and Practical questions 60%)

Shivaji University, Kolhapur

Syllabus of Online M.Com.

Faculty of Commerce and Management

Syllabus in accordance with NEP 2020

Introduced from Academic Year 2025-26

Online M.Com. – I Semester- I

Title of Paper- Advanced Accountancy Paper II

(Management Accounting)

(DSC-2) (MMA-II)

Course Outcomes:

After Studying this course, students shall be able to:

1. Understand the fundamentals of Management Accounting.
2. Explain the analysis and interpretation of financial statements.
3. Demonstrate the estimation of working capital requirements.
4. Practice to analyze the changes in financial position.

Total 60 Hours

4 Credits

Unit	Contents	No. of Hours
I	Introduction: Theory: Meaning of Management Accounting, Scope and Functions of Management Accounting, Role of Management Accountant in Decision Making, Management Accounting vs. Financial Accounting, Management Accounting vs. Cost Accounting, Tools and Techniques of Management Accounting Practical: Group discussion can be conducted in the classroom on the contents of Unit-I	10
II	Analysis of Financial Statements: Part I Theory: Meaning and Types of Financial Statements, Analysis of financial statements: Comparative Statement Analysis, Common- size Statement Analysis, Trend Analysis Practical: Download financial statements of any company and analyze with any one or more techniques of financial analysis and state your interpretation.	15
III	Analysis of Financial Statements: Part II Theory: Ratio Analysis- Classification of Ratios, Advantages and Limitations of Accounting ratios. Calculation of ratios and Interpretation. Practical: Download financial statements of any company and analyse with the help of ratios and state your interpretation	20

IV	Working Capital: Theory: Meaning, Significance and Determinants of Working Capital, Operating Cycle, Types of Working Capital, Estimation of Working Capital Requirements Practical: Exercise for Simulation of estimation of working capital can be arranged in the classroom	15
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Reference Books:

1. Khan M.Y. and Jain P.K. Management accounting, Tata McGraw Hill,
2. New Delhi
3. Charles T. Horngren, Introduction to management Accounting, Prentice
4. Hall of India, New Delhi.
5. Horngren, Charles T. George Foster and Shrikant M. Daliar : Cost
6. Accounting : A Managerial Emphasis, Prentice Hall, Delhi
7. Pandey I. M. Management Accounting, Vani Publication, Delhi. ‘
8. Welsch Glenn A., Ronald W. Hilton and Paul N. Gordon : Budgeting,
9. Profit Planning and control, Prentice Hall, New Delhi.
10. Manmohan & Goyal : Principles of Management Accounting
11. Maheshwari: Principles of Management Accounting
12. Robet Anthony and Vijay Govindrajan - Management Control System

Shivaji University, Kolhapur Nature of Question Paper M.Com. I Semester I (NEP) Advanced Accountancy Paper II (Management Accounting)	
Marks: 80	Duration: 3 hours.
Instructions: 4. Question number 1 and 2 are compulsory 5. Attempt any three questions from question number 3 to 6 6. Use of Calculator is allowed	
Q. 1 a. Choose the appropriate alternative	(10)
b. True or false	(6)
Q.2 Short Notes (any 4 out of 6)	(16)
Q.3 Practical Problem	(16)
Q.4 practical problem	(16)
Q.5 practical problem	(16)
Q. 6. a. Short problem	(8)
b. Short Problem	(8)

(Theory Questions – 40% and Practical Problems – 60%)

Shivaji University, Kolhapur
Syllabus of Online M. Com.
Faculty of Commerce and Management
Syllabus in accordance with NEP 2020
Introduced from Academic Year 2025-26
Online M. Com. – I Semester- I
Title of Paper - Advanced Accountancy Paper III
(Taxation)
(DSC-3) (MMA-III)

60 hours

4 Credits

Course outcomes

Students will be able to-

- 1) Compute Income from Salary
- 2) Compute Income from Business or Profession and House Property
- 3) Compute Total Income and Tax Liability
- 4) File E- Return and make E – Payment of Tax

	Course Content	
Unit-I:	Income from Salary	(20 hours)
Theory	Exemptions under salary income, valuation of perquisites, Deductions from salaries u/s 16, Computation of Income from Salary considering the exemptions and deductions available under Regular (Old) Tax Regime and Alternative (New) Tax Regime.	
Practical	Collect data from individuals regarding salary income and compute income from salary	
Unit-II:	Income from Business or Profession, Income from House Property, Capital Gains and Income from other Sources (of Individuals only)	(15 hours)
Theory	Computation of income from business or profession and Income from House Property considering the exemptions and deductions available under Regular (Old) Tax Regime and Alternative (New) Tax Regime. Brief information about Capital Gains and Income from other Sources.	
Practical	Collect data from any individual regarding income from business or profession and income from House Property and compute the income.	
Unit-III:	Deductions under Chapter VIA, Computation of Total Income and Tax Liability (of Individuals only)	(15 hours)
Theory	Deductions available to individuals, Computation of Total (Taxable) Income and Tax Liability under Regular (old) Tax Regime and Alternative (New) Tax Regime, when information about two or more sources of income is given	

Practical	Collect data of income from all sources from any individual and compute Total Income and Tax Liability.	
Unit-IV:	Clubbing of Income Set-off and Carry Forward of Losses, E-Filing and E- Payment:	(10 hours)
Theory	Clubbing of Income, Set-off and Carry Forward of Losses, E- Filing of Returns, E- Payment of Tax.	
Practical	Discuss with Tax Consultant regarding e-filing of IT return of any individual.	

Reference Books:

- 1) Singhania – Student’s Guide to Income Tax
- 2) Prasad Bhagwati – Income Tax Law & Practice
- 3) Mehrotra H.C. – Income Tax Law
- 4) Dinkar Pagare –Income Tax Law and Practice
- 5) Ahuja and Gupta – Systematic Approach to Income Tax

Nature of Question Paper

M.Com. Part-I (Semester-I)

Advanced Accountancy Paper III (Taxation)

Instructions

1. Question No.1, Q. No. 2 and Q. No. 3 are Compulsory.
2. Attempt any Two Questions from Q. No.4 to 6.
3. Use of calculator is allowed

Q.No.1	a) Choose Correct Alternative (10 Marks)	
	b) State True or False (6 Marks)	16 Marks
Q.No.2	Write Short Notes (Any 2 out of 4)	16 Marks
Q.No.3	Problem on Computation of Total Income and Tax Liability	16 Marks
Q.No.4	Practical Problem	16 Marks
Q.No.5	Practical Problem	16 Marks
Q.No.6	a. Short Problem	8 Marks
	b. Short Problem	8 Marks

(Theory questions – 40% and Practical Problems – 60%)

Shivaji University, Kolhapur
Syllabus of Online M. Com.
Faculty of Commerce and Management Syllabus in
accordance with NEP 2020 Introduced from
Academic Year 2025-26
Online M. Com –I Semester- I
Advanced Accountancy Paper IV Title
of Paper- Introduction to Income Tax
(DSC-4) (MMA-IV)

2 Credits

Course outcomes
Students will -

1. Know the basic information related to income tax.
2. Know important terms and how to determine Residential Status of an Assessee
3. Understand procedure of assessment and Income Tax Authorities

	Course Content	
Unit-I:	Introduction to Income Tax	10 hours
Theory	Introduction to Income Tax Act 1961 and Finance Act, Indian Tax System – Direct Tax and Indirect Tax, Introduction to Income tax – meaning, Characteristics, procedure of charging tax and Income Tax Return, meaning of PAN, TAN, TDS	
Practical	Organize discussion with Tax Consultant to know the current practice.	
Unit-II	Basic Information about Income Tax	20 hours
Theory	Important Definitions Under the Income Tax Act, 1961, Residential Status, Procedure of Assessment (Sec. 139 to 149), Income Tax Authorities	
Practical	Group discussion can be conducted in the classroom on the contents of Unit-II	

Reference Books:

- 6) Singhania – Student's Guide to Income Tax
- 7) Prasad Bhagwati – Income Tax Law & Practice
- 8) Mehrotra H.C. – Income Tax Law
- 9) Dinkar Pagare – Income Tax Law and Practice
- 10) Ahuja and Gupta – Systematic Approach to Income Tax

Nature of Question Paper
M.Com. Part-I (Semester-I)
Introduction to Income Tax

Instructions:

1. Question No.1, and Q. No. 2 are Compulsory.
2. Attempt any Three Questions from Q. No.3 to 6.

Q.No.1	a) Choose Correct Alternative	(5 Marks)	
	b) State True or False	(3 Marks)	8 Marks
Q.No.2	Write Short Notes (Any 2 out of 4)		8 Marks
Q.No.3	Long answer question (considering the marks and time)		8 Marks
Q.No.4	Long answer question (considering the marks and time)		8 Marks
Q.No.5	Long answer question (considering the marks and time)		8 Marks
Q.No.6	a. Short answer question		4 Marks
	b. Short answer question		4 Marks

Shivaji University, Kolhapur

Syllabus of Online M. Com.

Faculty of Commerce and Management

Syllabus in accordance with NEP 2020

Introduced from Academic Year 2025-26

Online M.Com. – I Semester- II

Title of Paper-Advanced Accountancy -Paper V
(DSC-5) (MMA-V)

Course Outcomes - students will be able to -

4 Credits

1. accounting of business combination of companies
2. accounting of consumer co-operatives societies.
3. Understand the accounting for lease.
4. Understand the accounts of Electricity Companies.

Marks:- 80	Total- 60 Hours
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Syllabus Contents

Unit 1: a) Theory	Accounting for Mergers and Acquisitions of companies. (Purchase Method only)	15 Hours
b) Practical	Arrange group discussions on reasons of mergers and acquisitions and Analysis any case study of mergers or acquisitions.	
Unit 2: a) Theory	Theory - Final Accounts of Cooperative Societies as per Maharashtra Cooperatives Societies Act	15 Hours

b) Practical	Practical - 1. Visit any co-operative societies to see their Accounting process and discuss with respective authority who look after accounting in the concern co-operative 2. Take interview of auditor of any co-operative society or CA in respect of Cooperative accounting.	
Unit 3: a) Theory	Accounting for Lease (AS-19) Introduction, Types of lease, Accounting for operating lease and finance lease.	15 Hours
b) Practical	1. Arrange students seminar, quiz or group discussions on the difference between operating lease and finance lease. 2. Arrange guest lectures or workshop by inviting CA, Cost Accountant, and Expert in lease business.	
Unit 4: a) Theory	Accounts of Electricity Companies – Final Accounts	15 Hours
b) Practical	Download annual report of any electricity company and observe the financial statements	

Reference Book:-

1. Gupta S.C., Gupta M.P., Shukla M.C., Agrawal B.M. and Grewal T.S.(2019)Advanced Corporate accounting, S. Chand and Company, New Dehli.
2. Shukla M.C., Grewal T.S., and Gupta S.C (2016)Advanced accounts, S. Chand and Company, New Dehli.
3. Dehli.
4. Gupta R.L. and Radhaswamy M. (2018) Advanced accountancy Vol II, Sultan Chand and Sons, New Dehli
5. Arulnandan M.A. and Raman K.S. (2018), Advanced Accountancy (Corporate accounting), Vol. II, Himalaya Publishing house Mumbai.
6. Maheshwari S.M., Maheshwari Sunil and Maheshwari Sharad k. (2018), Corporate Accounting, Vikas Publication House, New Dehli.
7. Shukla M.C., Grewal T.S. and Gupta S.C., Advanced accounts, S. Chand and Company, New Dehli.
8. Jain S.P.; Narang K.L. ; Agrawal Simmi and Sehgal, Monik (2018). Advanced Accountancy (Corporate Accounting) Vol II, Kalyani Publishers, New Delhi.
9. Hanif M. and Mukharjee A. (2018). Modern Accountancy Vol. II, Mc Graw Hill Education India (Private)Ltd. Noida.

Suggested Additional Readings: (if web source then provide url)

1. Chakraborty, Hrishikesh, Advanced Accountancy , Oxford University Press.
2. Original documents of Accounting Standards issued by ICAI.
3. Companies Act 2013.

Suggested Research Journal:

1. Indian Journal of Accounting.
2. Indian Journal of Commerce.
3. The Chartered Accountant.
4. Management Accountant.

Shivaji University, Kolhapur

Nature of Question Paper

Online M. Com. - I Semester - II

Title of Paper-Advanced Accountancy -Paper V

Instruction:

1. Question Number 1 and 2 are Compulsory.
2. Attempt any three questions from question number 3 to 6.
3. Use of calculator is allowed

Q.1	a) Choose the appropriate alternatives (10) b) True and False (6)	16
Q.2	Short Notes(any 4 out of 6)	16
Q.3	Practical Problem	16
Q.4	Practical Problem	16
Q.5	Practical Problem	16
Q.6	a) Short Practical Problem	8
	b) Short Practical Problem	8

Theory questions - 40% and Practical Problems – 60%

Shivaji University, Kolhapur
Syllabus of Online M.Com.
Faculty of Commerce and Management
Syllabus in accordance with NEP 2020
Introduced from Academic Year 2025-26
Online M.Com. – I Semester - II
Title of Paper-Advanced Accountancy Paper VI
(Cost Accounting)
(DSC-6) (MMA-VI)

4 Credits

Course Outcomes:

1. Students will acquire the knowledge of elements of cost and cost sheet.
2. Students will acquaint the knowledge and skill to prepare job cost sheet and contract account.
3. Students will be able to explain the costing process for processing units and service organizations.
4. Students will understand to reconcile the cost and financial accounts.

	Course Content	
Unit-I:	Introduction and Elements of Cost:	(10 hours)
Theory	a) Meaning, scope, objectives and advantages of cost accounting b) Elements of Cost – Material Cost, Labour Cost and Overheads; Classification of cost, preparation of cost sheet and quotation.	
Practical	Collect cost data from any organization and prepare costsheet and quotations	
Unit-II:	Job Costing and Unit Costing	(15 hours)
Theory	Meaning, Features, Practical Applications of Job Costing and Unit Costing, Preparation of Job Cost Sheet.	
Practical	a) Collect cost data from organization which are working on job basis and observe job cost sheet	
Unit-III	Process Costing	(20 hours)
Theory	A) Process Costing: Meaning and its Applications, Concept of Equivalent Production, Preparation of Process Accounts, Concepts of Joint Products and By Products.	
Practical	Visit any processing unit and observe Process Accounts	
Unit-IV	Contract Costing	(15 hours)
Theory	Contract Costing- Contract Costing: Meaning, Features, Accounting Procedure, Retention money, Escalation Clause, Work in Progress, Cost Plus Contract. Preparation of Contract Account	
Practical	Collect cost data from any contractor and prepare contract account for a single contract	

Reference Books

1. Cost accounting – B.K.Bhar
2. Cost accounting – Jain and Narang
3. Cost accounting – S N Maheshwari
4. Cost accounting (Problems & Solutions) – Khanna, Pandey, Arora & Ahuja
5. Cost accounting – Shukla, Grewal & Gupta

Nature of Question Paper

M.Com. Part-I (Semester-II)

Advanced Accountancy Paper

VI (Cost Accounting)

Instructions

:

6. Question No.1, and Q. No. 2 are Compulsory.
7. Attempt any Three Questions from Q. No.3 to 6.
8. Use of calculator is allowed

Q.No.1	a) Choose Correct Alternative (10 Marks)	
	b) State True or False (6 Marks)	16 Marks
Q.No.2	Write Short Notes (Any 2 out of 4)	16 Marks
Q.No.3	Problem	16 Marks
Q.No.4	Problem	16 Marks
Q.No.5	Problem	16 Marks
Q.No.6	a. Short Problem	8 Marks
	b. Short Problem	8 Marks

(Theory questions – 40% and Practical Problems – 60%)

Shivaji University, Kolhapur
Syllabus of Online M.Com.
Faculty of Commerce and Management Syllabus
in accordance with NEP 2020 Introduced from
Academic Year 2025-26
Online M. Com. – I Semester- II
Title of Paper-Advanced Accountancy Paper VII
(Auditing)
(DSC-7) (MMA-VII)

Course Outcomes

After Studying this course, students shall be able to:

1. Understand the basic concepts and objectives of audit
2. Gain working knowledge of generally accepted auditing procedures
3. Identify the skills and techniques of conducting audit of various entities
4. Know the recent trends in practice of audit

4 Credits

Unit	Contents:	No. of Hours
I	Auditing and Assurance Standards Theory - Evolution of Auditing and Assurance Standards, Updated List of Auditing and Assurance Standards. Specific study of - AAS 1: Basic Principles Governing an Audit AAS 2: Objectives and Scope of Audit of Financial Statements AAS 3: Documentation AAS 5: Audit Evidence AAS 8: Audit Planning AAS 28: Auditor's Report on Financial Statements Practical: Visit to any firm of Chartered Accountants and organize discussion with the auditor on Auditing and Assurance Standards	15
II	Internal Control System Theory – Nature, Scope, Objectives and Limitations of Internal Control. Need for evaluation Internal Control System and techniques of evaluation of Internal Control System Practical: Visit to any company and observe internal control system and find out strengths and weaknesses of the system.	15
III	Specific Types of Audit Cost Audit, Tax Audit, Management Audit and Social Audit Audit of Computerized Accounting Practical: Visit any manufacturing company and understand the process of conducting cost audit and tax audit. Visit to any institute which is applying Computerised Accounting and try to understand the process of Audit of Computerized Accounting	15

IV	Audit of Various Entities Audit of Public Sector Undertakings, Audit of Educational Institutions Practical: Visit to educational institute and understand the process of conducting an audit. Download Auditor's Report of Public Sector Undertaking and discuss it in group discussion.	15
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Shivaji University, Kolhapur Nature of Question Paper M. Com. I Semester II Advanced Accountancy Paper VII (Auditing) Marks: 80 Duration: 3 hours	
Instructions: 1. Question number 1 and 2 are compulsory 2. Attempt any three questions from question number 3 to 6	
Q. 1 a. Choose the appropriate alternative	(10)
b. True or false	(6)
Q.2 Long answer question	(16)
Q.3 Short Notes (any 4 out of 6)	(16)
Q.4 Long answer question	(16)
Q.5 Long answer question	(16)
Q. 6. a. Short answer question	(8)
b. Short answer question	(8)

References:

1. A Handbook of Practical Auditing: Dr. B.N. Tandon, Dr. Sudharsanam, Dr. Sundarbhai, S. Chand Publications
2. Auditing and Assurance: Sanjib Kumar Basu, Pearson Publishing House
3. Advanced Auditing and Professional Ethics: CA Vinodkumar Agarwal, CA Aarati Lahoti, a. A.S. Foundation
4. Auditing and Assurance Services: Karen Hooks, Wiley Publishers
5. Auditing and Assurance: CA Surabhi Bansal, Bestword Publications
6. Audit and Assurance Standards in India: M P Vijaykumar, Snow White Publication
7. Fundamentals of Auditing: Kumar and Sharma, Prentice Hall (India) Publishers
8. Study Material of CA (IPCC and Final): The Institute of Chartered Accountants of India

Journals

9. The Chartered Accountant, The Institute of Chartered Accountants of India
10. Journal of Accounting, Auditing and Finance, Sage Publications
11. International Journal of Auditing, Wiley Publishers

Shivaji University, Kolhapur
Syllabus of Online M.Com.
Faculty of Commerce and Management
Syllabus in accordance with NEP2020
Introduced from Academic Year 2025-26
Online M.Com. – I Semester- II
Advanced Accountancy -Paper VIII Title of
Paper- Introduction to Auditing
(DSC-8) (MMA-VIII)

After Studying this course, students shall be able to:

1. Understand the basic concepts and objectives of audit
2. Gain working knowledge of generally accepted auditing procedures
3. Identify the skills and techniques of conducting audit of various entities
4. Know the recent trends in practice of audit

2 Credits

Unit	Contents:	No. of Hours
I	Basic Concepts of Audit: Theory - Meaning and Definitions of Audit, Scope of Audit, Objectives of Audit, Basic Principles Governing an Audit, Types of Audit. Practical: Visit to a firm of Chartered Accountants and discuss with C. A. on his / her practical experiences regarding audit of various entities.	15
II	Audit Procedure and Audit Report Theory - Concept of Vouching, Verification and Valuation Auditor's Report – Contents of Audit Report, Types of Audit Report Adverse Opinion and Disclaimer of Opinion Practical – Visit to an organization where actual audit in process and observe the process and report.	15

Reference Books:

1. A Handbook of Practical Auditing: Dr. B.N. Tandon, Dr. Sudharsanam, Dr. Sundarbhai, S. Chand Publications
2. Auditing and Assurance: Sanjib Kumar Basu, Pearson Publishing House
3. Advanced Auditing and Professional Ethics: CA Vinodkumar Agarwal, CA Aarati

Lahoti, A.S. Foundation

4. Auditing and Assurance Services: Karen Hooks, Wiley Publishers
5. Auditing and Assurance: CA Surabhi Bansal, Bestword Publications
6. Audit and Assurance Standards in India: M P Vijaykumar, Snow White Publication
7. Fundamentals of Auditing: Kumar and Sharma, Prentice Hall (India) Publihsers
8. Study Material of CA (IPCC and Final): The Institute of Chartered Accountants of India

Journals

1. The Chartered Accountant, The Institute of Chartered Accountants of India
2. Journal of Accounting, Auditing and Finance, Sage Publications
3. International Journal of Auditing, Wiley Publishers

Shivaji University, Kolhapur Nature of Question Paper Online M. Com. I Semester II Advanced Accountancy -Paper VIII (Introduction to Auditing)	
Marks: 40	Duration: 2 hours.
Instructions: 3. Question number 1 and 2 are compulsory 4. Attempt any three questions from question number 3 to 6	
Q. 1 a. Choose the appropriate alternative b. True or false	(5) (3)
Q.2 Case Study (preparation of Audit Report with the help of given information)	(8)
Q.3 Short Notes (any 4 out of 6)	(8)
Q.4 Long answer question (considering the marks and time)	(8)
Q.5 Long answer question (considering the marks and time)	(8)
Q. 6. a. Short answer question	(4)
b. Short answer question	(4)

Shivaji University, Kolhapur Syllabus of Online M.Com. Faculty of Commerce and Management Syllabus in accordance with NEP 2020 Introduced from Academic Year 2023-24 Online M.Com. – I Semester-I Elective I (BM): Paper I Business Management (DSE – 1) (EBM – 1)			
Course Outcomes	Understand the theoretical aspects of management and strategic management Describe the theoretical aspects of management and strategic management Understand the contemporary issues in management.		
	4 Credits		
Marks : 80	Total Hours of Teaching: 60	Theory: 60	Practical: Student Workload
Syllabus Contents:			
Unit 1: a) Theory	Introduction to Management: Definition, Nature, Significance, Managerial Skills, Mitzberg's Role, Management as a Profession, Code of Conduct for Managers. Functional areas of Management - Human Resource, Finance, Production and Marketing.		15 Hours
b) Practical	Visit any organisation and study the role of managers. Visit and study the functional activities of the companies. Submit the hand written report to the College/ Institution/ Department		
Unit 2: a) Theory	Contribution towards Management Thought: A) Contribution of Frank Gilbreth, Mary Parker Follett. Tom Peters and Robert Waterman. B) Organizational Learning Approach- Need and Evaluation. Virtual Organization - Features and Implications.		15 Hours
b) Practical	Visit any organization and study the management thought of concern organization and submit the hand written report to the College/ Institution/ Department.		
Unit 3: a) Theory	Strategic Management: (A) Concept, Importance, Levels of Strategy, Strategic Intent, Different type of Strategies, Strategic Analysis and Choice - Corporate Level Analysis (GAP analysis, BCG Matrix, GE9 Cell Matrix), Industry Level Analysis (Porter's 5 Forces Model). (B) Strategy implementation and control- Techniques of Strategy Evaluation - Functional Issues, Behavioural Issues and McKinsey's 7-S Model. Strategic Control Technique.		15 Hours
b) Practical	Visit to company, bank, NGOs etc. and study the adopted strategies by the same. Develop strategies for the companies. Submit the best suggested strategies for the visited company to the College/ Institution/ Department.		

Unit 4: a) Theory	. Contemporary Issues in Management: (A) Ethical Issues- Social, Cultural, Financial, Marketing and Environment related Issues. (B) Management of 21 st Century Organization - Challenges and Opportunities in E-Commerce, E-Business and M-Commerce.	15 Hours
b) Practical	Visit to company, social organizations etc. for collecting 21 st Century issues in management and submit the hand written report about ethical issues and challenges before the organization to the College/ Institution/ Department.	

Note:	Practical should be considered for Internal Examination for 5 (Five) Marks (Out of 10 Internal Marks)	
Reference Books: In Search of Excellence - Tom Peters and Robert H. Waterman, Strategic management – Azhar Kazmi Principles of management – P.C.Tripathi and P.N.Reddy Principles of Management – Koontz, O'Donnell and Weihrich		

	Shivaji University, Kolhapur Syllabus of Online M.Com. Faculty of Commerce and Management Syllabus in accordance with NEP 2020 Introduced from Academic Year 2023-24 Online M. Com. –I Semester-II Elective I (BM): Paper II Organizational Behaviour (DSE – 2) (EBM – II)		
Marks : 80	Total Hours of Teaching: 60	Theory: 60	4 Credits
Course Outcomes:	Describe theoretical concepts of organizational Behaviour. Classify types of personalities Summarize types of conflicts. Summarize adoption of organizational culture.		Number of hours lecture
Unit 1	Introduction to Organizational Behaviour: Concept, significance, Nature and scope of OB, contributing disciplines to OB, relationship between management and organizational Behaviour, Ethical issues in OB, Historical Development of OB, Models of OB.		15
Practical	Visit any nearby organization and observe management functions perform therein and report. Submit handwritten report.		

Unit 2	Individual and Group Behaviour: A. Foundations of Individual Behaviour – Personality (Concepts, Determinants and types), Perception (meaning, process, factors affecting perception), Attitude (Concept, formation and types), Values (Concept, types and formation) and Job Satisfaction (Concept, Determinants and Measurements), Learning (Meaning, determinants, principles) B. Foundations of Group Behaviour: Definition and importance of group, Types of group, Process of group development, Group Behaviour (Norms, Cohesion, Role intergroup Conflicts), Group performance factors, Quality Circle and Work Teams.	15
Practical 2	Classify the types of personality of sample employees in nearby organization.	
Unit 3	Organisational Conflict and Negotiation A. Organizational Conflict: Concept, types, sources and levels of organizational conflict, Traditional and modern approach to conflict, Functional and dysfunctional organizational conflict, conflict process, resolution of conflict. B. Negotiation: bargaining strategies, the negotiation process, individual differences in negotiation effectiveness, third party negotiations.	15
Practical 3	Prepare a poster on organizational conflicts and their resolution.	
Unit 4	Organizational Culture and Work Life Balance: A. Organizational culture: Definition, types, functions, creating, sustaining and changing culture a culture. B. Quality of Work life: concept, constituents of QWL, QWL in Indian context. Managing work life conflicts in organizations.	15
Practical 4	Prepare a report on organizational culture adopted in hereby organization.	
References: 1. Management and Organizational Behaviour – P. Subbarao 2. Organizational Behaviour – Keith Davis 3. Organizational Behaviour – Stephen Robbins 4. Organizational Behaviour – Dr. Anjali Ghanekar 5. Organizational Behaviour – Dr. C.B.Gupta 6. Organizational Behaviour – Dr. S.S.Khanka Organizational Behaviour – Stephen Robbins & Timothy Judge, 15th Edition, Pearson, Prentice Hall.		

Shivaji University, Kolhapur Syllabus of Online M. Com. Faculty of Commerce and Management Syllabus in accordance with NEP 2020 Introduced from Academic Year 2023-24 Online M.Com. – I Semester-I Elective II (ME): Paper I Managerial Economics (DSE – 1) (EME – I)			4 Credits
COURSE OUTCOMES: 1 Student should able to understand the variables and components of Managerial Economics 2 Students should study the applications of demand analysis and concepts related consumer's behaviors. 3 Student should aware regarding production, price determination and pricing practices and they should able to apply these in business decision making policies. 4 Student should understand the business cycle phenomenon and inflation for business decision making.			
UNIT -1	Introduction to Managerial Economics Meaning, Nature, Scope and Importance Economic Theory and Managerial Theory Role and Responsibilities of manager- managerial Economics and Decisions making Objectives of Business Firm		15
UNIT -2	Demand Analysis and Consumer Behavior Demand Function Concept and Types of Elasticity of Demand Measurement of Price Elasticity of Demand- Applications of Elasticity of Demand in Managerial decision Revealed Preference Theory – Theory of Consumer's Choice under Risks Demand Forecasting : Meaning and Methods		15
UNIT -3	Theory of Production, Price Determination and Pricing Practices Production Function : Short run, Long run and Cob-Douglas – Break Even Analysis Price and Output Determination under Monopolistic Competition and Oligopoly (Collusive and Non-Collusive) Pricing Practices: Cost Plus, Multiple, Dumping and Transfer Capital Budgeting- Criteria for Project Appraisal		15
UNIT -4	Theory of Business Cycles and Inflation Meaning, Phases of Business Cycles Theories of Business Cycles: Cob-Web, Hicks Monetary theories of Inflation : Friedman theory, Income theory Structurlist theories :Mark up theory by Ackley- Bottleneck theory by Eckstim		15
References – 1. Branson, William H. Macroeconomic Theory and Policy. HarperCollins India Pvt. Ltd. 2 Oliver J. Blanchard, Macroeconomics, Pearson Education 3 G. S. Gupta, Macroeconomics: Theory and Applications, McGraw-Hill			

Education	
4 Shapiro, Macroeconomic Analysis	
5 Paul A Samuelson, William D Nordhaus, and Sudip Chaudhuri, Macroeconomic, McGraw-Hill Education	
6 Mithani D.M. Money, Banking, International Trade and Public Finance,	
7 Vaish M.C. Monetary Theory	
8 Agarwal H.S. Principles of Economics	
9 Haberler, Theory of International trade	
10 K.K.Dewett, Monetary Theory	
11 H.L.Ahuja, Macro Economics: Theory and Policy	
Jhingan M.L. Macro Economic Theory	
12 Gupta S.B. Monetary Economics	

Shivaji University, Kolhapur
Nature of Question Paper
Online M. Com. I Semester II
Elective II (ME): Paper I Managerial Economics

Marks: 80

Duration: 3 hours.

Instructions: 1) Que.1 and 2 are compulsory

2) Attempt any three questions from Que. no 3 to 6

Case Study	16
Short answer type question (Any two out of three)	16
Long question	16
Long question	16
Long question	16
Q. 6 Write Short Notes (Any two out of three)	16

Shivaji University, Kolhapur Syllabus of M.Com Faculty of Commerce and Management Syllabus in accordance with NEP 2020 Introduced from Academic Year 2023-24 M.Com –I Semester-II Elective II (ME): Paper II International Business (DSE – 2) (EME – II) 4 Credits		
COURSE OUTCOMES: 1. Students will understand the global economic and business world. 2. Students will equip with proper knowledge, abilities and skills of international business environment. 3. Students will get acquainted with the functions and mechanism of international financial institutions. 4. Students will enable with the knowledge of the plans and strategies to succeed at international business platform.		
UNIT -1	International Business Environment 1.1. Nature and Scope Issues in foreign investment-technology transfer, pricingand regulations, Human resource issues and Environmental issues Emerging economies and trade blocks	15
UNIT -2	International Marketing International Marketing – meaning, features, need and problems Entry strategies, market selection International production and supply chains Methods of Payments in international trade	15
UNIT -3	International Business Regulations 3.1 Bilateral and multilateral trade laws WTO- Settlement and Dhoha round of talks Dispute settlement mechanism under WTO Problems of Patent laws	15
UNIT 4	International Economy and India India’s foreign trade in post globalization era India and IMF, IBRD Role of India in SAARC BRICS and India	15

References –

1. Mead R. (2004) International Management: Cross Cultural Dimensions, 3rd ed. New York Wiley
2. Vyuptakesh Sharan, (2004) International Business: Concept, Environment and Strategy, Pearson education, Singapore
3. Yarbrough B V (2005) The World Economy: Trade and Finance, 7th Ed Thomas south western USA
4. Manab Adhikari, Global (2006) Business Management(An International economic environment), Macmillan India Ltd
5. Hill C.W. L. and Jain A. K. (2007) International Business Competing in Global market Place, McGraw Hill New Delhi
6. Graham John L, Salwan Prashant, Cateora Philip R, (2008) International Marketing 13th Ed. Tata McGraw- Hill,
7. Varshney R.L. and Bhattacharya B, (2012) International Marketing Management -An Indian Perspective, 24th Ed S.Chand New Delhi
8. Jeevnandam C. International Business S.Chand New Delhi 2008
9. Paul Justein International Business, 5th Ed (2011) Prentice Hall of India, Pvt Ltd new Delhi
10. Keegan Warren J. and Green Mark C. Global Marketing, 4th Ed. (2009) Prentice Hall India, Pvt Ltd
11. Bhalla V. K. and Ramu S.S. (2009) International Business Environment, Anmol Prakashan New Delhi

Shivaji University, Kolhapur
Nature of Question Paper
Online M. Com. I Semester II
Elective II (ME): **Paper II**
International Business

Marks: 80

Duration: 3 hours.

Instructions: 1) Que.1 and 2 are compulsory

2) Attempt any three questions from Que. no 3 to 6

Case Study	16
Short answer type question (Any two out of three)	16
Long question	16
Long question	16
Long question	16
Q. 6 Write Short Notes (Any two out of three)	16

Shivaji University, Kolhapur Syllabus of M.Com Faculty of Commerce and Management Syllabus in accordance with NEP 2020 Introduced from Academic Year 2023-24 Online M. Com. – I Semester-I (Minor) Research Methodology (RM) (MRM) 4 Credits		
Course Outcomes	1. Familiarity with basics of research. 2. Designing research protocol for research problem. 3. Preparation of the instrument for data collection. 4. Ability of analysis and interpretation of data.	
Expected Skills Impartation(Through theory and Practical's)	1. Identifying and selecting research problem, 2. Preparing research design. 3. Preparing questionnaire/schedule and collecting data. 4. Analyzing and interpreting data and writing research report.	
Marks : 80		Total 60 Hours
Syllabus Contents:		
Unit 1: a) Theory	Basics of Research: Meaning and objectives of research, research in commerce and Management, Types of research, review of literature, research process, methods of research: Case study and survey method.	15 Hours
b) Practical	(a) Identification of research problem. (b) Classification of research problem according to types. (c) Formulation of research questions and objectives.	
Unit 2: a) Theory	Meaning and components of research design, exploratory research design, descriptive research design, diagnostic research design and experimental research design, Hypothesis: Meaning and Types of Hypothesis, process of formulating hypothesis. Sample Design- sampling techniques: random and non-random sampling methods.	15 Hours
b) Practical	(a) Preparation of Research Design. (b) Formulation of Hypothesis. (c) Selection of appropriate sampling design.	
Unit 3: a) Theory	Meaning of Data, Types of data-quantitative and qualitative, sources- Primary and secondary, methods of primary data collection-questionnaire method, interview method, observation method, focus group interview method, types of questions in questionnaire, sources of secondary data, classification, tabulation and graphical presentation.	15 Hours
b) Practical	(a) Preparation of questionnaire	

	(b) Preparation of interview schedule/observation schedule (c) Extraction of data from secondary sources (RBI, Government websites, national and international apex bodies etc.) (d) Classification of data and tabulation.	
Unit 4: a) Theory	Analysis and Interpretation of Data using various descriptive statistical tools (measure of central tendency, measures of dispersion, correlation and regression) Hypothesis testing by suitable methods. (Parametric and non-parametric tests), Chi-square test, One Sample 't' test and independent sample 't' test, layout of research project, steps involved in report writing, requisites of good research report.	15 Hours
b) Practical	(a) Analysis and interpretation of classified data by using statistical tools. (b) Testing of hypothesis by using appropriate test. (c) Report writing according to objectives and hypothesis. [Use any suitable software for the purpose of (a) and (b)]	
Note:	Questions on theory as well as problems/case on each unit should be asked in university examinations.	
Reference Books: 1. Michael V. P. 'Research Methodology in Management, Himalaya Publishing House, New Delhi 2. Krishnasawami O. R. and Ranganathan M., 'Methodology of Research in Social Sciences', Himalaya Publishing House, New Delhi 3. Kothari C. R., 'Research Methodology-Methods and Techniques', New Age International Publisher 4. Pauline V. Young, 'Scientific Social Surveys and Research', Prentice-Hall of India Pvt. Ltd., New Delhi. 5. Sachdeva J. K., Business Research Methodology, Himalaya Publishing House, New Delhi 6. Gupta S. C., "Fundamentals of Statistics", Himalaya Publishing House. 7. Gupta S. P. "Statistical Methods", Sultan Chand and Sons, New Delhi		
Suggested Additional Readings: 1) Chawla, Deepak and Sondhi, Neena (2018). Research Methodology Concept and Cases, Noida: Vikas Publishing House Pvt. Ltd. 2) Kishore, Ravi M. (2018). Business Statistics,		
Suggested Research Journal : 1) Indian Journal of Commerce 2) Indian Journal of Accounting 3) Indian Journal of Marketing 4) Management Accountant 5) Vikalp 6) Decision 7) IIMB Review		

Shivaji University, Kolhapur
Nature of Question paper
Online M. Com. I Semester - I
Research Methodology

Total Marks: 80:

Duration 3 hours

Instructions: 1) Q. No. 1, 2 and 3 are Compulsory

2) Attempt any two questions from Q. No. 4 to 6

Que. No.	Nature of Question	Marks
1	A) Choose the correct alternative	10
	B) 'True' OR 'False'	6
2	Short notes (Any 4 out of 6)	16
3	Case study or Long answer question	16
4	Long Answer Question	16
5	Long Answer Question	16

Shivaji University Kolhapur
Syllabus in accordance with NEP- 2020
Introduced from Academic Year 2025-26
Online M.Com. Part –I, Semester II
Guidelines for the On the Job Training (OJT) / Internship

1. On the Job Training (OJT) is to be completed by the student at any commercial organisation/NGO. For this purpose, the organisations may include office of Chartered Accountant, Cost and Management Accountant, Company Secretary, Management Consultant Government or Semi-Government organisation, cooperative society, bank, local authority etc. (The list is for reference only; not exhaustive; other similar organisations can be considered for OJT)
2. OJT is to be completed by the candidate/student under the guidance of guide/mentor from the college, affiliated to any recognized university or autonomous institute as well as industry/organisation guide/mentor where he/she is doing internship/apprenticeship.
3. OJT Report is to be prepared which shall be based on the field work and a soft copy of it has to be submitted to the Centre for Distance and Online Education before commencement of semester end examination.
4. The OJT Report shall consist of the following: Title page should cover the following:
 - a. Name of the intern (student)
 - b. Name of the internal guide and external guide/mentor
 - c. Name of the Centre
 - d. Organisation where internship is conducted
 - e. Duration in which internship was completed

The main text of the report should consist of:

- a. Profile of the organisation
 - b. Details of work done during the internship
 - c. Key learning/takeaways/ skills acquired during the internship
 - d. Responsibilities handled during the internship
 - e. Problems faced during the internship
 - f. Any significant contribution/solution provided to the organisation during the internship
 - g. Conclusion
 - h. Attendance sheet (day-wise) signed by industry/organisation guide.
5. Internship/Apprenticeship report shall consist of around 40 to 50 typed pages.
6. All recognized P.G. Teachers and also teachers teaching to M. Com Course under the Faculty of Commerce and Management are eligible to work as mentor or guide of the trainee, affiliated to any recognized university or autonomous institute. The Programme Coordinator of Online M. Com. Programme, may appoint such teachers as guide or mentor.
7. Total duration of OJT shall be of 120 hours. The centre has flexibility to allow the students to complete the Internship/Apprenticeship at any time during the semester, but the soft of project report of OJT has to be submitted before commencement of semester end examination.

8. In case of students registered on online mode and who are already working/employed, they have to submit the OJT report. However, they can complete OJT in the same organisation where they are working/employed. Those students who are registered on online mode, but not working/employed anywhere, have to complete OJT as per the guidelines.

9. Evaluation of On the Job Training

There shall be evaluation of a maximum of 100 marks for OJT on the following criterion and shall be done by Programme Coordinator and Course Co-ordinators of Online M. Com. Programme.

Sr.	Criterion for Evaluation	Maximum Marks
1	Attendance and Engagement	10
2	Relevance of Internship/Apprenticeship with curriculum	10
3	Responsibilities handled during Internship/Apprenticeship	20
4	Skills acquired during Internship/Apprenticeship	20
5	Contribution of Intern/Apprentice to the organisation	20
6	Internship/Apprenticeship Report	20
	Total	100
