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| M.B.A.  **DISASTER MANAGEMENT** |
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| **SYLLABUS** |
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| **from the academic year**  **2023 - 2024** |
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| **TAMILNADU STATE COUNCIL FOR HIGHER EDUCATION, CHENNAI – 600 005** |

**MBA – DISASTER MANAGEMENT**

**(FULL TIME)**

**Choice Based Credit System**

# Program Educational Outcomes;

# PEO 1 – Employability: To develop students with industry specific knowledge & skills to meet the industry requirements and also join Public sector undertaking through competitive examinations.

# PEO 2 - Entrepreneur: To create effective business service owners, with a growth mindset by enhancing their critical thinking, problem solving and decision-making skills.

# PEO3 – Research and Development: To instill and grow a mindset that focusses efforts towards inculcating and encouraging the students in the field research and development.

# PEO 4 – Contribution to Business World: To produce ethical and innovative business professionals to enhance growth of the business world.

# PEO 5 – Contribution to the Society: To work and contribute towards holistic development of society by producing competent MBA professionals.

# Program Outcomes:

**PO1: Problem Solving Skill:** Application of tools & techniques relevant to management theories and practices in analyzing & solving business problems.

**PO2: Decision Making Skill:** Fostering analytical and critical thinking abilities for data-based decision making.

**PO3: Ethical Value:** Ability to develop value based leadership attributes.

**PO4: Communication Skill:** Ability to understand, analyze and effectively communicate global, economic, legal and ethical aspects of business.

**PO5: Individual and Team Leadership Skill:** Ability to be self-motivated in leading & driving a team towards achievement of organizational goals and contributing effectively to establish industrial harmony.

**PO6: Employability Skill:** Foster and enhance employability skills through relevant industry subject knowledge.

**PO7: Entrepreneurial Skill:** Equipped with skills and competencies to become a global entrepreneur.

**PO8: Contribution to Society:** Strive towards becoming a global influencer and motivating future generation towards building a legacy that contributes to overall growth of humankind.

# PEO – PO MAPPING

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | PO 1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 |
| PEO 1 | Y | Y | Y | Y | Y | Y | Y | Y |
| PEO 2 | Y | Y | Y | Y | Y |  | Y | Y |
| PEO3 | Y | Y | Y | Y | Y | Y |  | y |
| PEO 4 | Y | Y | Y | Y | Y | Y | Y | Y |
| PEO 5 | Y | Y | Y | Y | Y | Y | Y | Y |

# Y - Yes

# FIRST SEMESTER

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | **Inst. Hours** | **Marks** | | |
| **CIA** | **External** | **Total** |
|  | Management Principles and Business Ethics | Core | 4 | - | - | - | 4 | 60 | 25 | 75 | 100 |
|  | Quantitative Techniques and Research Methods in Business | Core | 3 | 1 | - | - | 4 | 60 | 25 | 75 | 100 |
|  | Managing Organizational Behaviour | Core | 4 | - | - | - | 4 | 60 | 25 | 75 | 100 |
|  | Accounting for Managers | Core | 3 | 1 | - | - | 4 | 60 | 25 | 75 | 100 |
|  | Managerial Economics | Core | 4 | - | - | - | 4 | 60 | 25 | 75 | 100 |
|  | Legal Systems in Business | Core | 4 | - | - | - | 4 | 60 | 25 | 75 | 100 |
|  | Entrepreneurship Development | Extra Disciplinary | 3 | - | - | - | 3 | 45 | 25 | 75 | 100 |
|  | Soft Skills I – Executive Communication | Soft Skills | - | - | 2 | - | 2 | 30 | 25 | 75 | 100 |

# SECOND SEMESTER

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | **Inst. Hours** | **Marks** | | |
| **CIA** | **External** | **Total** |
|  | Applied Operations Research | Core | 3 | 1 | - | - | 4 | 60 | 25 | 75 | 100 |
|  | Human Resource Management | Core | 4 | - | - | - | 4 | 60 | 25 | 75 | 100 |
|  | Marketing Management | Core | 4 | - | - | - | 4 | 60 | 25 | 75 | 100 |
|  | Operations Management | Core | 3 | 1 | - | - | 4 | 60 | 25 | 75 | 100 |
|  | Financial Management | Core | 3 | 1 | - | - | 4 | 60 | 25 | 75 | 100 |
|  | Strategic Management | Core | 4 | - | - | - | 4 | 60 | 25 | 75 | 100 |
|  | International Business | Extra Disciplinary | 3 | - | - | - | 3 | 45 | 25 | 75 | 100 |
|  | Soft Skills II – Business Etiquette | Soft Skills | - | - | 2 | - | 2 | 30 | 25 | 75 | 100 |
|  | Soft Skills III – Computing Skills | Soft Skills | - | - | 2 | - | 2 | 30 | 25 | 75 | 100 |

# THIRD SEMESTER

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | **Inst. Hours** | **Marks** | | |
| **CIA** | **External** | **Total** |
|  | Information Systems for Business | Core | 4 | - | - | - | 4 | 60 | 25 | 75 | 100 |
|  | \*\*Choose any one from the list | Elective | 3 | - | - | - | 3 | 45 | 25 | 75 | 100 |
|  | \*\*Choose any one from the list | Elective | 3 | - | - | - | 3 | 45 | 25 | 75 | 100 |
|  | \*\*Choose any one from the list | Elective | 3 | - | - | - | 3 | 45 | 25 | 75 | 100 |
|  | \*\*Choose any one from the list | Elective | 3 | - | - | - | 3 | 45 | 25 | 75 | 100 |
|  | \*\*Choose any one from the list | Elective | 3 | - | - | - | 3 | 45 | 25 | 75 | 100 |
|  | \*\*Choose any one from the list | Elective | 3 | - | - | - | 3 | 45 | 25 | 75 | 100 |
|  | Employability skills | Extra Disciplinary | 3 | - | - | - | 3 | 45 | 25 | 75 | 100 |
|  | Soft Skills IV – Leadership and Team Building Skills | Soft Skills | - | - | 2 | - | 2 | 30 | 25 | 75 | 100 |
|  | \*\*\*Summer Internship | Internship | - | - | - | 1 | 3 | - | 100 | - | 100 |

**\*\* Students should choose six elective Course from the specialization list in consultation with the Head of the Institution.**

**For the categorization of specialization students can either opt for either single or dual specialization.**

**In case of students opting for single specialization, they should compulsorily choose 6 elective papers from one area specialization from the list given below:**

**In case of students opting for dual specialization. They should choose 3 elective papers from respective area of specialization.**

**\*\*\* Internship will be carried out during the summer vacation after the first year. Viva Voce will be conducted by the college and marks shall be sent to the University and the same will be included in the Third Semester Marks Statement.**

# FOURTH SEMESTER

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | **Inst. Hours** | **Marks** | | |
| **CIA** | **External** | **Total** |
|  | # Project Work & Viva- Voce | Core | - | - | - | Y | 12 | - | 75 | 225 | 300 |

**L-Lecture T-Tutorial P- Practical O-Project**

**# The Project Work will be evaluated jointly by TWO Examiners (i.e. one Internal and the other External) for a Maximum of 225 Marks (9 Credits).**

**# The Viva- Voce will be conducted with Two Examiners (i.e. one Internal and the other External) for a Maximum of 75 Marks (3 Credits).**

**SPECIALIZATION COURSES: DISASTER MANAGEMENT**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | **Inst. Hours** | **Marks** | | |
| **CIA** | **External** | **Total** |
|  | Basics of Disaster Management | Elective | 3 | - | - | - | 3 | 45 | 25 | 75 | 100 |
|  | Disaster Risk Governance | Elective | 3 | - | - | - | 3 | 45 | 25 | 75 | 100 |
|  | Disaster Preparedness and Decision Making | Elective | 3 | - | - | - | 3 | 45 | 25 | 75 | 100 |
|  | Ecosystems and Habitat | Elective | 3 | - | - | - | 3 | 45 | 25 | 75 | 100 |
|  | Environmental Economics and Management | Elective | 3 | - | - | - | 3 | 45 | 25 | 75 | 100 |
|  | Principles of Remote Sensing and GIS | Elective | 3 | - | - | - | 3 | 45 | 25 | 75 | 100 |
|  | Crisis Management | Elective | 3 | - | - | - | 3 | 45 | 25 | 75 | 100 |
|  | Geology and Meteorology | Elective | 3 | - | - | - | 3 | 45 | 25 | 75 | 100 |
|  | Disaster Mitigation | Elective | 3 | - | - | - | 3 | 45 | 25 | 75 | 100 |
|  | Geoinformatics in Disaster  Mitigation | Elective | 3 | - | - | - | 3 | 45 | 25 | 75 | 100 |
|  | Climate Change and Disaster Management | Elective | 3 | - | - | - | 3 | 45 | 25 | 75 | 100 |
|  | Psycho-social Ramifications and Resource Mobilization | Elective | 3 | - | - | - | 3 | 45 | 25 | 75 | 100 |
|  | Disaster Economics and Financing | Elective | 3 | - | - | - | 3 | 45 | 25 | 75 | 100 |
|  | Preventive Laws In Disaster Management | Elective | 3 | - | - | - | 3 | 45 | 25 | 75 | 100 |
|  | Disaster Response | Elective | 3 | - | - | - | 3 | 45 | 25 | 75 | 100 |

**# Choose any 6 electives from the above list in consultation with the HOD or Head.**

**SYLLABUS**

**SEMESTER I**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Management Principles and Business Ethics** | Core | 4 | - | - | - | 4 | | 60 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To familiarize the students to the basic concepts of management in order to aid in understanding how an organization functions. | | | | | | | | | | | | |
| C2 | To provide insights on Planning & Decision Making | | | | | | | | | | | | |
| C3 | To throw light on Organizing, Managing Change and Innovation | | | | | | | | | | | | |
| C4 | To elucidate on Leadership, Communication and Controlling. | | | | | | | | | | | | |
| C5 | To create awareness and importance of Business Ethics and Social Responsibility. | | | | | | | | | | | | |
| **SYLLABUS** | | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | **Introduction:** Nature of Management – Concepts and Foundations of Management- Managerial Functions- Management Skills- The Evolution of Management Thought – Tasks of a Professional Manager –Organizational Culture - Environment– Systems Approach to Management – Levels in Management – Disaster Management | | | | | | | 12 | | | C1 | | |
| II | **Planning & Decision Making:** Steps in Planning Process – Scope and Limitations – Short Term and Long Term Planning – Flexibility in Planning – Characteristics of a Sound Plan – Management By Objectives (MBO). Strategic Management ProcessDecision Making Process and Techniques. Business Models | | | | | | | 12 | | | C2 | | |
| III | **Nature of Organizing:** Organization Structure and Design - Authority Relationships – Delegation of Authority and Decentralization – Interdepartmental Coordinator – emerging Trends in corporate Structure, Strategy and Culture – Impact of Technology on Organizational design – Mechanistic vs. Adoptive Structures – Formal and Informal Organization. Span of control – Pros and Cons of Narrow and Wide Spans of Control – Optimum Span - Managing Change and Innovation. | | | | | | | 12 | | | C3 | | |
| IV | **Leadership and Control:** Leadership: Approaches to Leadership and Communication.  Control: Concept of Control – Application of the Process of Control at Different Levels of Management (top, middle and first line). Performance Standards – Measurements of Performance – Remedial Action - An Integrated Control system in an Organization – Management by Exception (MBE) – | | | | | | | 12 | | | C4 | | |
| V | **Business Ethics:** Importance of Business Ethics – Ethical Issues and Dilemmas in Business - Ethical Decision Making and Ethical Leadership – Ethics Audit - Business Ethics and - CSR Models. | | | | | | | 12 | | | C5 | | |
|  | **Total** | | | | | | | **60** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Possess the knowledge on the basic concepts of management and understand how an organization functions. | | | | | | | PO4, PO6, PO8 | | | | | |
| **CO2** | Possess knowledge on planning & decision making. | | | | | | | PO1, PO2 | | | | | |
| **CO3** | Have insights on organizing, managing change and Innovation | | | | | | | PO5, PO6, PO7 | | | | | |
| **CO4** | Learn leadership, communication and controlling skills. | | | | | | | PO4, PO5 | | | | | |
| **CO5** | Have better understanding on business ethics and social responsibility. | | | | | | | PO3, PO8 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | https://deb.ugc.ac. In | | | | | | | | | | | | |
| 2. | http://wwww.managementconcepts. Com | | | | | | | | | | | | |
| 3. | International journal of Management Concepts and Philosophy | | | | | | | | | | | | |
| 4. | Journal of Management, Sage Publications | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Mukherjee, K., Principles of Management, 2nd Edition, Tata McGraw Hill Education Pvt. Ltd., 2009 | | | | | | | | | | | | |
| 2. | S. K. Mandal., Management Principles and practice, 3rd Edition, Jaico Publishing House, Jan.2011. | | | | | | | | | | | | |
| 3. | Griffin, R. W., Management, 11th Edition, South-Western College Publication, January 2018. | | | | | | | | | | | | |
| 4. | Koontz, H. and Weihrich, H., Essentials of Management: An International Perspective, 11th Edition, Tata McGraw Hill Education Private Ltd., July 2020 | | | | | | | | | | | | |
| 5. | Certo, S C. and Certo, T, Modern Management, 13th Edition, Prentice Hall, January 2014. | | | | | | | | | | | | |
| 6. | Robbins, S and Coulter, M, 11th Edition, Management, Prentice Hall, 11th edition, January 2012 | | | | | | | | | | | | |
| 7. | Shaikh Ubaid, Disaster Management, Technical publications, 1st edition, 2020 | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** |  |  |  | 2 |  | 2 |  | 2 |
| **CO 2** | 2 | 3 |  |  |  |  |  |  |
| **CO 3** |  |  |  |  | 2 | 2 | 2 |  |
| **CO 4** |  |  |  | 3 | 3 |  |  |  |
| **CO 5** |  |  | 3 |  |  |  |  | 3 |

**3-Strong 2-Medium 1-Low**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Quantitative Techniques and Research Methods in Business** | Core | 3 | 1 | - | - | 4 | | 60 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To provide the students with an introduction to probability theory and discuss how probability calculations may facilitate their decision making. | | | | | | | | | | | | |
| C2 | To construct a coherent research proposal that includes an abstract, literature review, research questions, ethical considerations and methodology. | | | | | | | | | | | | |
| C3 | To understand the basic statistical tools for analysis & interpretation of qualitative and quantitative data. | | | | | | | | | | | | |
| C4 | To recognize the principles and characteristics of the multivariate data analysis techniques. | | | | | | | | | | | | |
| C5 | To become familiar with the process of drafting a report that poses a significant problem | | | | | | | | | | | | |
| **SYLLABUS** | | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | **Introduction:** Probability - Rules of probability- Probability distribution; Binomial, Poisson and Normal Distributions, their applications in Business and Industrial Problem- Baye’s Theorem and its applications - Decision Making under risk and uncertainty; Maximax, Maximin, Regret Hurwitz and Laplace Criteria in Business and Decision Making - Decision tree. | | | | | | | 17 | | | C1 | | |
| II | **Research Methods:** Research - Definition - Research Process - Research Design – Definition- Types Of Research Design - Role of Theory in Research - Variables in Research – Objectives - Hypothesis -Types of Data; Preliminary Vs Secondary- Methods of Primary Data Collection; Survey, Observation, Experiments - Construction Of Questionnaire - Questionnaire Schedule- Validity and Reliability of Instruments - Types of Scales; Nominal, Ordinal, Interval - Types of Attitude Measurement Scales – Sampling Techniques; Probability And Non probability Techniques- Optimal Sample Size determination. | | | | | | | 10 | | | C2 | | |
| III | **Data Preparation and Analysis:** Data Preparation - Editing –Coding- Data Entry- Data Analysis- Testing Of Hypothesis Univariate and Bivariate Analysis -Parametric And Nonparametric Tests and Interpretation of Test Results- Chi-Square Test- Correlation; Karl Pearson’s Vs Correlation Coefficient and Spearman's Rank Correlation- Regression Analysis - One Way and Two Way Analysis of Variance. | | | | | | | 15 | | | C3 | | |
| IV | **Multivariate Statistical Analysis:** Exploratory and Confirmatory Factor Analysis -Discriminant Analysis- Cluster Analysis -Conjoint Analysis -Multiple Regression- Multidimensional Scaling- Their Application In Marketing Problems -Application of Statistical Software For Data Analysis- SEM Analysis | | | | | | | 09 | | | C4 | | |
| V | **Report Writing and Ethics in Business Research:** Research Reports- Different Types -Report Writing Format- Content of Report- Need For Executive Summary- Chapterization -Framing the Title of the Report- Different Styles Of Referencing -Academic Vs Business Research Reports - Ethics In Research. | | | | | | | 09 | | | C5 | | |
|  | **Total** | | | | | | | 60 | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Be able to develop problem-solving techniques needed to accurately calculate probabilities. | | | | | | | PO1, PO2, PO6, PO7 | | | | | |
| **CO2** | Be able to devise research methods, techniques and strategies in the appropriate manner for managerial decision making and conduct research for the industry. | | | | | | | PO4, PO6 | | | | | |
| **CO3** | Be able to apply and interpret the different types of quantitative and qualitative methods of data analysis. | | | | | | | PO4, PO6 | | | | | |
| **CO4** | Be able to use multivariate techniques appropriately, undertake multivariate hypothesis tests, and draw appropriate conclusions. | | | | | | | PO4, PO6 | | | | | |
| **CO5** | Be able to present orally their research or a summary of another’s research in an organized, coherent, and compelling fashion. | | | | | | | PO4, PO6 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | <https://www.dartmouth.edu/~chance/teaching_aids/books_articles/probability_book/amsbook.mac.pdf> | | | | | | | | | | | | |
| 2. | <https://study.com/academy/topic/probability.html> | | | | | | | | | | | | |
| 3. | <https://onlinecourses.nptel.ac.in/noc18_ma07/preview> | | | | | | | | | | | | |
| 4. | <https://hbr.org/1964/07/decision-trees-for-decision-making> | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Kumar, R., Research Methodology: A Step-by-Step guide for Beginners, Sage, South Asia, 4th Edition, 2014. | | | | | | | | | | | | |
| 2. | Srivastava, T.N. and Rego, S., Statistics for Management, 2nd Edition, Tata McGraw Hill, 3rd Edition, 2016. | | | | | | | | | | | | |
| 3. | Cooper, D.R., Schindler, P. And Business Research Methods, Tata- McGrew Hill,12th Edition, 2012. | | | | | | | | | | | | |
| 4. | Cooper, D.R., Schindler, P. and Sharma, J.K., Business Research Methods,11th Edition, Tata-McGraw Hill, 12 th Edition, 2018. | | | | | | | | | | | | |
| 5. | Johnson, R.A., and Wichern, D.W., Applied Multivariate Statistical Analysis, PHI Learning Pvt. Ltd., 6 th Edition, 2012. | | | | | | | | | | | | |
| 6. | Anderson, Sweeny, Williams, Camm and Cochran, Statistics for business and Economics, Cengage Learning, New Delhi, 13th Edition, 2017 | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** | 3 | 3 |  |  |  | 3 | 3 |  |
| **CO 2** |  |  |  | 3 |  | 3 |  |  |
| **CO 3** |  |  |  | 2 |  | 2 |  |  |
| **CO 4** |  |  |  | 2 |  | 2 |  |  |
| **CO 5** |  |  |  | 2 |  | 3 |  |  |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Managing Organizational Behaviour** | Core | 4 | - | - | - | 4 | | 60 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To familiarize the students to the basic concepts of managing Organizational Behaviour in order to aid in understanding how an men behave in an organization. | | | | | | | | | | | | |
| C2 | To provide insights on Individual Differences, perception, learning, Attitudes values and motivation | | | | | | | | | | | | |
| C3 | To throw light on Group Dynamics and Interpersonal Communication | | | | | | | | | | | | |
| C4 | To elucidate on Leadership, Politics, Conflicts and Negotiation. | | | | | | | | | | | | |
| C5 | To create awareness and importance of work stress and Emotional Intelligence and its influence on employees in an organization. | | | | | | | | | | | | |
| **SYLLABUS** | | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | **Introduction to Organizational Behaviour:** Historical background of OB - Concept Relevance of OB – Contributing disciplines - to the field of OB, challenges and opportunities for OB, foundations of Individual Behaviour. Theory – social theory- Organizational Citizenship Behaviour | | | | | | | 12 | | | C1 | | |
| II | **Individual Difference -** Personality – concept and determinants of personality – theories of personality – type of theories – trait theory – psycho analytic theory - social learning theory – Erikson’s stages of Personality Development Chris Argyris Immaturity to Maturity Continuum. Personality – Job fit.  **Perception:** Meaning Process – Factors influencing perception – Attribution theory  **Learning:** Classical, Operant and Social Cognitive Approaches – Managerial implications**.**  **Attitudes and Values**:– Components, Attitude – Behaviour relationship, formation, values.  **Motivation**: Early Theories of Motivation – Hierarchy of needs theory, Theory X and Theory Y, Two factor theory, McClelland’s theory of needs and Contemporary theories of motivation – Self – Determination theory, Job Engagement, Goal Setting theory, Self– efficacy theory, Re – inforcement theory, Equity theory, Expectancy theory. | | | | | | | 12 | | | C2 | | |
| III | **Group Dynamics –** Foundations of Group Behaviour – Group and Team - Stages of Group Development–Factors affecting Group and Team Performance - Group Decision making  **Interpersonal Communication –** Communication Process – Barriers to Communication– Guidelines for Effective Communication | | | | | | | 12 | | | C3 | | |
| IV | **Leadership –** Trait, Behavioural and Contingency theories, Leaders vs Managers Power and  **Politics:** Sources of Power – Political Behaviour in Organizations – Managing Politics.  **Conflict and Negotiation:** Sources and Types of Conflict –Negotiation Strategies– Negotiation Process. | | | | | | | 12 | | | C4 | | |
| V | **Work Stress:** Stressors in the Workplace – Individual Differences on Experiencing Stress - Managing Workplace Stress. Organizational Culture and Climate: Concept and Importance – Creating and Sustaining Culture.  **Emotional Intelligence,** Work Life Integration Practices.  Knowledge based enterprise- systems and Processes; Networked and virtual organizations. | | | | | | | 12 | | | C5 | | |
|  | **Total** | | | | | | | **60** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Possess the knowledge on the basic concepts of managing Organizational Behaviour in order to aid in understanding how an men behave in an organization | | | | | | | PO4 | | | | | |
| **CO2** | Possess knowledge on Individual Differences, perception, learning, Attitudes values and motivation | | | | | | | PO3, PO6 | | | | | |
| **CO3** | Have insights on Group Dynamics and Interpersonal Communication | | | | | | | PO2, PO4, PO5 | | | | | |
| **CO4** | Learn Leadership, Politics, Conflicts and Negotiation. | | | | | | | PO5 | | | | | |
| **CO5** | Have better understanding on work stress and Emotional Intelligence and its influence on employees in an organization. | | | | | | | PO6, PO8 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | [www.himpub.com](http://www.himpub.com) | | | | | | | | | | | | |
| 2. | <https://iedunote.com.organisational-behaviour> | | | | | | | | | | | | |
| 3. | [www.yourarticlelibrary.com/organisation/](http://www.yourarticlelibrary.com/organisation/) | | | | | | | | | | | | |
| 4. | Journal of Organizational Behaviour – wiley Online Library | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Prasad .L.M., Organisational Behaviour ,Sultan Chand and Sons, 2019 | | | | | | | | | | | | |
| 2. | C.B.Guptha, A Textbook Of Organisational Behaviours ,S.Chand & Company,2019 | | | | | | | | | | | | |
| 3. | K. Aswattappa, Organisational Behaviour, Himalaya Publishing House, 12th Edition, 2016. | | | | | | | | | | | | |
| 4. | Luthans, F. Organizational Behaviour, 12th Edition, Tata McGraw Hill Education, 2017. | | | | | | | | | | | | |
| 5. | McShane, S.L., Von Glinow, M.A., and Sharma, R.R., Organizational Behaviour, 5th Edition, Tata McGraw-Hill Education Pvt. Ltd., 2011. | | | | | | | | | | | | |
| 6. | Stephen P. Robins, Timothy A. Judge and Neharika Vohra, Essentials of Organisational Behaviour, 18th Edition, Pearson Education, 2019. | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** |  |  |  | 2 |  |  |  |  |
| **CO 2** |  |  | 3 |  |  | 3 |  |  |
| **CO 3** |  | 3 |  | 3 | 3 |  |  |  |
| **CO 4** |  |  |  |  | 3 |  |  |  |
| **CO 5** |  |  |  |  |  | 3 |  | 2 |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Accounting For Managers** | Core | 3 | 1 | - | - | 4 | | 60 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To acquaint the students with the fundamentals of principles of financial, cost and management accounting | | | | | | | | | | | | |
| C2 | To enable the students to prepare, analyses and interpret financial statements | | | | | | | | | | | | |
| C3 | To acquaint the students with the tools and techniques of financial analysis | | | | | | | | | | | | |
| C4 | To enable the students to take decisions using management accounting tools. | | | | | | | | | | | | |
| C5 | To enable the students to prepare the reports with the accounting tools and facilitate managerial decision making. | | | | | | | | | | | | |
|  | **SYLLABUS** | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | Financial Accounting – Meaning - Objectives - functions. Branches of Accounting: Financial, Cost and Management Accounting - Accounting Concepts and conventions. Journal – Ledger – Trial Balance – Preparation of Final Accounts: Trading, Profit and Loss Account and Balance Sheet (problems); International Accounting Standards - IFRS | | | | | | | 12 | | | C1 | | |
| II | Financial Statement Analysis - Objectives - Techniques of Financial Statement Analysis: Common Size and Comparative Financial Statements, Trend analysis, Ratio Analysis.  Fund Flow Statement - Statement of Changes in Working Capital - Preparation of Fund Flow Statement - Cash Flow Statement Analysis- Distinction between Fund Flow and Cash Flow Statement – problem. | | | | | | | 12 | | | C2 | | |
| III | Marginal Costing - Definition - distinction between marginal costing and absorption costing - Break even point Analysis - Contribution, p/v Ratio, margin of safety - Decision making under marginal costing system-key factor analysis, make or buy decisions, export decision, sales mix decision- Problems. | | | | | | | 12 | | | C3 | | |
| IV | Budget, Budgeting, and Budgeting Control - Types of Budgets - Preparation of Flexible and fixed Budgets, master budget and Cash Budget - Problems - Zero Base Budgeting. | | | | | | | 12 | | | C4 | | |
| V | Cost Accounting : meaning – Objectives - Elements of Cost – Cost Sheet(Problems) – classification of cost – Cost Unit and Cost Centre – Methods of Costing – Techniques of Costing. Standard costing and variance analysis Reporting to Management – Uses of Accounting information in Managerial decision-making. Reporting-Accounting Standards and Accounting Disclosure practices in India; Exposure to Practical Knowledge of using Accounting software- Open Source. | | | | | | | 12 | | | C5 | | |
|  | **Total** | | | | | | | **60** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Be able to understand the fundamentals of principles of financial, cost and management accounting | | | | | | | PO6 | | | | | |
| **CO2** | Be able to prepare, analyze and interpret financial statements | | | | | | | PO1, PO2, PO4, PO6, PO7 | | | | | |
| **CO3** | Be able to use the tools and techniques of financial analysis. | | | | | | | PO1, PO2, PO3, PO6, PO7 | | | | | |
| **CO4** | Be able to take decisions using management accounting tools. | | | | | | | PO1, PO2, PO6, PO7 | | | | | |
| **CO5** | Be able to prepare the reports with the accounting tools and facilitate and take managerial decisions. | | | | | | | PO2, PO3, PO4, PO6, PO7, PO8 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | [http://files.rajeshindukuristudyplace.webnode.com/200000014-9621c971b8/ accounting%20 for%20 managers.pdf](http://files.rajeshindukuristudyplace.webnode.com/200000014-9621c971b8/%20accounting%20%20for%20%20managers.pdf) | | | | | | | | | | | | |
| 2. | <http://shodhganga.inflibnet.ac.in/bitstream/10603/70588/9/09_chapter%201.pdf> | | | | | | | | | | | | |
| 3. | <http://educ.jmu.edu/~drakepp/principles/module6/capbudtech.pdf> | | | | | | | | | | | | |
| 4. | [https://www.researchgate.net/publication/313477460\_concept\_of\_working\_capital\_management](https://www.researchgate.net/publication/313477460_CONCEPT_OF_WORKING_CAPITAL_MANAGEMENT) | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Gupta, A., Financial Accounting for Management: An Analytical Perspective, 5th Edition, Pearson, 2016. | | | | | | | | | | | | |
| 2. | Khan, M.Y. and Jain, P.K., Management Accounting: Text, Problems and Cases, 8thEdition, Tata McGraw Hill Education Pvt. Ltd., 2021. | | | | | | | | | | | | |
| 3. | Nalayiram Subramanian, Contemporary Financial Accounting and reporting for Management – a holistic perspective- Edn. 1, 2014 published by S. N. Corporate Management Consultants Private Limited | | | | | | | | | | | | |
| 4. | Horngren, C.T.,Sundem, G.L., Stratton, W.O., Burgstahler, D. and Schatzberg, J., 16th Edition, Pearson, 2013 | | | | | | | | | | | | |
| 5. | Noreen, E., Brewer, P. and Garrison, R., Managerial Accounting for Managers, 13th Edition, Tata McGraw-Hill Education Pvt. Ltd., 2009. | | | | | | | | | | | | |
| 6. | Rustagi,R. P., Management Accounting, 2nd Edition, Taxmann Allied Services Pvt. Ltd, 2011 | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** |  |  |  |  |  | 2 |  | 2 |
| **CO 2** | 3 | 3 |  | 3 |  | 3 | 2 |  |
| **CO 3** | 3 | 3 | 3 |  |  | 3 | 2 |  |
| **CO 4** | 3 | 3 |  |  |  | 3 | 3 |  |
| **CO 5** |  | 3 | 3 | 3 |  | 3 | 2 | 2 |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Managerial Economics** | Core | 4 | - | - | - | 4 | | 60 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To familiarize the students about managerial economics and to know the fundamental concepts affecting business decisions. | | | | | | | | | | | | |
| C2 | To understand the concept of utility and demand analysis and demand forecasting | | | | | | | | | | | | |
| C3 | To know about production function and market structure | | | | | | | | | | | | |
| C4 | To have an idea and understanding about Macroeconomics like National Income, savings and investment, Indian economic policy and Planning. | | | | | | | | | | | | |
| C5 | To Provide insights on Money Market, Inflation and Deflation, Monetary and Fiscal policies, FDI and cashless economy. | | | | | | | | | | | | |
| **SYLLABUS** | | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | Introduction: Definition of Managerial Economics. Decision Making and the Fundamental Concepts Affecting Business Decisions – the Incremental Concept, Marginalism, Equi-marginal Concept, the Time Perspective, Discounting Principle, Opportunity Cost Principle- Micro and Macro Economics. | | | | | | | 12 | | | C1 | | |
| II | Utility Analysis and the Demand Curve: Elasticity of Demand - Demand Analysis: Basic Concepts, and tools of analysis for demand forecasting. Use of Business Indicators: Demand forecasting for consumer, Consumer Durable and Capital Goods. Input-Output Analysis – Consumer Behavior-Consumer Equilibrium | | | | | | | 12 | | | C2 | | |
| III | The Production Function: Production with One Variable Input – Law of Variable Proportions – Production with Two Variable Inputs – Production Isoquants – Isocost Lines Estimating Production Functions- Returns to Scale– Economies Vs Diseconomies of Scale – Cost Concepts – Analysis of cost – Short and long run costs.  Market Structure: Perfect and Imperfect Competition – Monopoly, Duopoly, Monopolistic Competition – Pricing Methods. | | | | | | | 12 | | | C3 | | |
| IV | Macro Economic Variables – National Income- Concepts – Gross Domestic Product, Gross National Product, Net National Product – Measurement of National Income, Savings, Investment - Business Cycles and Contracyclical Policies – Role of Economic Policy – Indian Economic Planning | | | | | | | 12 | | | C4 | | |
| V | Commodity and Money Market: Demand and Supply of Money – Money Market Equilibrium – Monetary Policy – Inflation – Deflation – Stagflation-Role of Fiscal Policies- Indian Fiscal Policies - Government Policy towards Foreign Capital and Foreign Collaborations – Globalization and its Impact. Cashless economy and digitalized cash transfers; Economic models and its steps; FEMA-GST-Industrial Policy in India and its effects on growth. | | | | | | | 12 | | | C5 | | |
|  | **Total** | | | | | | | **60** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Be able to understand the basic concepts of managerial economics that helps the firm in decision making process. | | | | | | | PO2, PO4 | | | | | |
| **CO2** | Be familiar about the Basic concepts of Demand, Supply and Equilibrium and their determinants | | | | | | | PO4, PO6, PO7 | | | | | |
| **CO3** | Have better idea and understanding about production function and market structure | | | | | | | PO6, PO7 | | | | | |
| **CO4** | Have better insights about macroeconomics concepts like National income, Savings and Investment, Indian Economic Policy and planning | | | | | | | PO8 | | | | | |
| **CO5** | Possess better knowledge about Money market, Monetary and Fiscal policy, inflation and deflation, FDI and globalization and Cashless economy and digitalized cash transfers. | | | | | | | PO7 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | <http://pearsoned.co.in/prc/book/paul-g-keat-managerial-economics-economic-tools-todays-decision-makers6e-6/9788131733530> | | | | | | | | | | | | |
| 2. | [http://www.onlinevideolecture.com/mba-programs/kmpetrov/managerial economics/?courseid=4207](http://www.onlinevideolecture.com/mba-programs/kmpetrov/managerial%20economics/?course_id=4207) | | | | | | | | | | | | |
| 3. | <https://www.slideshare.net/dvy92010/nature-and-scope-of-managerial-economics-76225857> | | | | | | | | | | | | |
| 4. | The Indian Economic Journal - SAGE Journals | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | 1. Damodaran, S., Managerial Economics, 2nd Edition, Oxford University Press, 2011. | | | | | | | | | | | | |
| 2. | Dwivedi, D.N., Managerial Economics, Vikas Publishing House, 2011. | | | | | | | | | | | | |
| 3. | R. L. Varshney , K.L. Maheshwari., Managerial Economics, Sultan Chand & Sons, 2014. | | | | | | | | | | | | |
| 4. | William F. Samuelson, Stephen G. Marks, Jay L., Zagorsky., Managerial Economics, Wiley Publishers, 9th Edition (2021) | | | | | | | | | | | | |
| 5. | H. L. Ahuja., Managerial Economics., Atlantic Publishers and distributors(P) Ltd., 2017. | | | | | | | | | | | | |
| 6. | Dominick Salvatore, Managerial Economics: Principles and worldwide applications, 9E Adaptation, Oxford university press, 9th Edition, 2020. | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** |  | 2 |  | 3 |  |  |  |  |
| **CO 2** |  |  |  | 3 |  | 2 | 2 |  |
| **CO 3** |  |  |  |  |  | 3 | 3 |  |
| **CO 4** |  |  |  |  |  |  |  | 2 |
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**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Legal Systems in Business** | Core | 4 | - | - | - | 4 | | 60 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To create knowledge and understanding on law of contracts | | | | | | | | | | | | |
| C2 | To describe about sale of goods and Negotiable instrument act | | | | | | | | | | | | |
| C3 | To have an overall understanding about partnership act and company law. | | | | | | | | | | | | |
| C4 | To familiarize various labor laws for effective administration of Human Resource of an organization. | | | | | | | | | | | | |
| C5 | To provide insights and awareness about consumer protection act, Cyber-crimes, Intellectual property Rights. | | | | | | | | | | | | |
| **SYLLABUS** | | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | **The Law of Contracts:** Definition of Contact Offer and Acceptance – Essential Elements of a Valid Contract: Free Consent – Competency of Parties – Lawful Consideration – Legality of Object. Void, Voidable, Unenforceable and Illegal Contracts – Performance of Contracts – Privity of Contracts – Assignment of Contracts – By Whom Contract must be Performed – Time and Place of Performance – Performance of Reciprocal Promises – Contracts which need not be performed, Discharge of Contracts : By Performance, By Agreement, By Impossibility, By Lapse of Time, By Operation of Law and By Breach of Contracts – Remedies for Breach of Contracts. | | | | | | | 12 | | | C1 | | |
| II | **Sale of Goods Act:** Definition of a Sale and a Contract of Sale – Difference between (1) Sale and an Agreement to Sell (2) Sale and a Contract Form (3) Sale and Bailment (4) Sale and Mortgage of Goods (5) Sale and Time Purchase Conditions and Warranties – Passing of Property of Goods – Rights of an Unpaid Seller.  **Negotiable Instruments Act:** Negotiable Instruments in General: Cheques, Bills of Exchange and Promissory Notes – Definition and Characteristics | | | | | | | 12 | | | C2 | | |
| III | **Partnership Act:** Evolution – Definition of Partnership – Difference between Partnership and Joint Family Business – Kinds of Partnerships – Registration – Rights and Liabilities of Partners – Dissolution.  **Company Law:** Evolution of Company Form of Organisation – Companies Separate Legal Entity – Comparison of Company with Partnership and Joint Hindu Family Business – Kinds of Companies – Comparison of Private and Public Companies – Formation of Companies – General Idea About Memorandum and Articles of Association, Prospectus, Statement in lieu of Prospectus – Management of Companies – General Idea of Management of Companies – Officers, Meetings – Resolutions – Account and Audit – Winding up of Companies – General Idea of the Different Modes of Winding Up. | | | | | | | 12 | | | C3 | | |
| IV | **Labour Law:** Factories Act, Minimum Wages Act, Industrial Disputes Act, Employees Compensation Act, Payment of Bonus Act 1965. Payment of Gratuity Act 1972. ESI Act, Employees Provident Fund and Miscellaneous Provisions Act 1952, Maternity Benefits Act, Child labour Abolition & Regulation Act,1986- Inter-state Migrant Workmen (Regulation of Employment & Conditions of services) Act 1979- Bonded Labour system (Abolition)Act 1976- Sexual Harassment of women at Workplace (Prevention, Prohibition & Redressal) Act 2013- Contract Labour (Regulation and Abolition) Act- Four Labour Codes and Rules-RTI Act 2005. | | | | | | | 12 | | | C4 | | |
| V | Consumer Protection Act, Competition Act 2002, Cyber Crimes, IT Act 2008 – Intellectual Property Rights: Types of Intellectual Property – Trademarks Act 1999 – The Copyright Act 1957 – International Copyright Order, 1999 – Design Act, 2000; UNICITRAL – United Nations Commission on International Trade Law. | | | | | | | 12 | | | C5 | | |
|  | **Total** | | | | | | | **60** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Have knowledge on understandings on law of contract. | | | | | | | PO4, PO6, PO7 | | | | | |
| **CO2** | Know the sale of Goods & Negotiable instrument act. | | | | | | | PO6 | | | | | |
| **CO3** | Have understandings on partnership and company law | | | | | | | PO6, PO7 | | | | | |
| **CO4** | Have familiarize with various labour laws. | | | | | | | PO5, PO6, PO7 | | | | | |
| **CO5** | Possess insights & awareness about consumer protection Act Cyber Crimes, Intellectual Property Rights. | | | | | | | PO8 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | <http://www.legalserviceindia.com/article/> | | | | | | | | | | | | |
| 2. | [http://www.freebookcentre.net/Law/Law-Books.html 2](http://www.freebookcentre.net/Law/Law-Books.html%202) | | | | | | | | | | | | |
| 3. | <https://www.mooc-list.com/course/business-law-wma> | | | | | | | | | | | | |
| 4. | <https://ilj.law.indiana.edu/> | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Kapoor ND., Legal Systems in Business, Edition 2 (2021), Sultan Chand & Sons. | | | | | | | | | | | | |
| 2. | Rao, P.M., Mercantile Law, PHI Learning, 2011. | | | | | | | | | | | | |
| 3. | Majumdar, A. K. and Kapoor, G.K., Company Law, 15th Edition, Taxmann Publications Pvt. Ltd., 2012. | | | | | | | | | | | | |
| 4. | Majumdar, A. K. and Kapoor, G.K., Company Law and Practice, 17th Edition, Taxmann Publications Pvt. Ltd., 2012. | | | | | | | | | | | | |
| 5. | Intellectual Property Laws, Universal Law Publishing, 2012. | | | | | | | | | | | | |
| 6. | Daniel Albuquerque , Legal systems in Business, Oxford University Press India, 2nd Edition, 2015. | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** |  |  |  | 2 |  | 2 | 2 |  |
| **CO 2** |  |  |  |  |  | 2 |  |  |
| **CO 3** |  |  |  |  |  | 2 | 2 |  |
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**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Entrepreneurship Development** | Extra Disciplinary | 3 | - | - | - | 3 | | 45 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To introduce students to entrepreneurship and its growth in India. | | | | | | | | | | | | |
| C2 | To impart knowledge on innovation, its types, role of technology in innovation, patents and licensing. | | | | | | | | | | | | |
| C3 | To orient the students on new venture creation | | | | | | | | | | | | |
| C4 | To enable students to prepare a feasible business plan | | | | | | | | | | | | |
| C5 | To give inputs on various types of financing available for new ventures. | | | | | | | | | | | | |
| **SYLLABUS** | | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | Introduction: The Entrepreneur – Definition – Characteristics of Successful entrepreneur. Entrepreneurial scene in India; MSME; Analysis of entrepreneurial growth in different communities – Case histories of successful entrepreneurs. Similarities and Distinguish between Entrepreneur and Intrapreneur. | | | | | | | 9 | | | C1 | | |
| II | Innovation in Business: Types of Innovation – Creating and Identifying Opportunities for Innovation – Design Thinking- The Technological Innovation Process – Creating New Technological Innovation and Intrapreneurship – Licensing – Patent Rights – Innovation in Indian Firms | | | | | | | 9 | | | C2 | | |
| III | New Venture Creation: Identifying Opportunities for New Venture Creation: Environment Scanning – Generation of New Ideas for Products and Services. Creating, Shaping, Recognition, Seizing and Screening of Opportunities. Feasibility Analysis: Technical Feasibility of Products and Services – Marketing Feasibility: Marketing Methods – Pricing Policy and Distribution Channels | | | | | | | 9 | | | C3 | | |
| IV | Business Plan Preparation: Benefits of a Business Plan – Elements of the Business Plan – Developing a Business Plan – Guidelines for preparing a Business Plan – Format and Presentation; Start-ups and e-commerce Start-ups. Business Model Canvas | | | | | | | 9 | | | C4 | | |
| V | Financing the New Venture: Capital structure and working capital Management: Financial appraisal of new project, Role of Banks – Credit appraisal by banks. Institutional Finance to Small Industries – Incentives – Institutional Arrangement and Encouragement of Entrepreneurship. | | | | | | | 9 | | | C5 | | |
|  | **Total** | | | | | | | **45** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Be able to know about growth of entrepreneurship in India | | | | | | | PO4, PO7 | | | | | |
| **CO2** | Gain knowledge on innovation, its types, role of technology in innovation, patents and licensing | | | | | | | PO7, PO8 | | | | | |
| **CO3** | Obtain knowledge on new venture creation | | | | | | | PO6, PO7 | | | | | |
| **CO4** | Be able to prepare a business plan | | | | | | | PO7, PO8 | | | | | |
| **CO5** | Gian knowledge on various types of financing available for new ventures. | | | | | | | PO7, PO8 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | <http://www.jimssouthdelhi.com/sm/BBA6/ED.pdf> | | | | | | | | | | | | |
| 2. | https://[www.cengage.com/highered](http://www.cengage.com/highered) | | | | | | | | | | | | |
| 3. | <https://roadmapresearch.com/entrepreneurship-beyond-curriculum> | | | | | | | | | | | | |
| 4. | The International Journal of Entrepreneurship and Innovation | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Reddy, N., Entrepreneurship: Text and Cases, Cengage Learning, 2010. | | | | | | | | | | | | |
| 2. | Roy, R., Entrepreneurship, 2nd Edition, Oxford University Press, 2011. | | | | | | | | | | | | |
| 3. | Barringer, B., Entrepreneurship: Successfully Launching New Ventures,  3rd Edition, Pearson, 2011. | | | | | | | | | | | | |
| 4. | Bessant, J., and Tidd, J., Innovation and Entrepreneurship, 2nd Edition, John  Wiley &amp; Sons, 2011. | | | | | | | | | | | | |
| 5. | Desai, V., Small Scale Industries and Entrepreneurship, Himalaya Publishing  House, 2011. | | | | | | | | | | | | |
| 6. | Entrepreneurship: Successfully Launching New Ventures, Global Edition, 6th  Edition Bruce R. Barringer, Texas A & amp; M University, R. Duane Ireland,  ©2018 |Pearson | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** |  |  |  | 3 |  |  | 3 |  |
| **CO 2** |  |  |  |  |  |  | 3 | 2 |
| **CO 3** |  |  |  |  |  | 2 | 3 |  |
| **CO 4** |  |  |  |  |  |  | 3 | 2 |
| **CO 5** |  |  |  |  |  |  | 3 | 3 |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Soft Skills I – Executive Communication** | Soft Skills | - | - | 2 | - | 2 | | 30 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To acquire communication awareness they are going to get for the industry. | | | | | | | | | | | | |
| C2 | To make the customer realize that you can provide them with information and other essential things | | | | | | | | | | | | |
| C3 | To explore the skill of writing business proposals | | | | | | | | | | | | |
| C4 | To **develop a** plan for the meetings and interviews | | | | | | | | | | | | |
| C5 | To analyze the skills required for non-verbal communication | | | | | | | | | | | | |
| **SYLLABUS** | | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | **UNIT 1- Communication:** Meaning and Significance of Communication for Management- Types of Communication Factors Affecting Effectiveness of Communication- Barriers to Communication- Principles of Effective Communication Dyadic Communication- Face-to-face Communication. Other Modes of Communication. | | | | | | | 6 | | | C1 | | |
| II | **UNIT 11- Business Correspondence:** Planning Business Messages: Analyzing the Task, Anticipating the Audience. Adapting the Message Organizing and Writing Business Messages: Patterns of organization, Use of Tools such as Mind Maps, Composing the Message- Norms for Business Letters Letters for Different Kinds of Situation: Personalized Standard Letters, Enquiries, Inviting Quotations, Sending Quotations, Placing Orders, Inviting tenders, Claim letters, Customers Complaints, Collection Letters, Sales Promotion Letters- Revising Business Messages: Revising for Clarity. Conciseness and Readability, Proof reading and Evaluating- Letters of application and resume. | | | | | | | 6 | | | C2 | | |
| III | **UNIT III- Business Reports and Proposals:** Structure of Reports- Long and Short Reports: Formal and Informal Reports- Writing Research Reports- Technical Reports- Norms for Including Exhibits and Appendices- Writing Business Proposals. | | | | | | | 6 | | | C3 | | |
| IV | **UNIT IV- Conducting Meetings and Interviews:** Procedure for Conducting Meetings- Preparing Agenda, Minutes and Resolutions- Conducting Seminars and Conferences- Procedure of Regulating Speech- Evaluating Oral Presentations Drafting Speech- Participating in Debates and Group Discussions- Presentation Skills- Fluency Development Strategies- Attending and Conducting Interviews- Listening. | | | | | | | 6 | | | C4 | | |
| V | **UNIT V- Non-verbal Communication:** Personal Appearance- Posture- Body Language- Reading Nonverbal Messages- Use of Charts. Diagrams and Tables- Visual and Audio-visual Aids for Communication. | | | | | | | 6 | | | C5 | | |
|  | **Total** | | | | | | | **30** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Understanding of theories and concepts, types and various modes of communication in organizations | | | | | | | PO4, PO6 | | | | | |
| **CO2** | Development of skills on developing Business Correspondence | | | | | | | PO4, PO6 | | | | | |
| **CO3** | Development of skills onpreparing Business Reports and Proposals | | | | | | | PO4, PO6 | | | | | |
| **CO4** | To draft effective business correspondence with brevity, and clarity in designing and developing clean and lucid organizing skills. | | | | | | | PO4, PO6 | | | | | |
| **CO5** | To demonstrate his/her verbal and non-verbal communication ability through presentations. | | | | | | | PO4, PO6 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | <https://www.skillsyouneed.com/ips/communication-skills.html> | | | | | | | | | | | | |
| 2. | <https://mtbt.fpg.unc.edu/more-baby-talk/10-ways-promote-language-and-communication-skills-infants-and-toddlers> | | | | | | | | | | | | |
| 3. | <http://skillopedia.com> | | | | | | | | | | | | |
| 4. | <https://www.habitsforwellbeing.com/9-effective-communication-skills> | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Chaney, L. and Martin, J., Intercultural Business Communication. Person, 4 ed., 2008. | | | | | | | | | | | | |
| 2. | Chaturvedi, Business Communication, Person, 2 edition, 2011 | | | | | | | | | | | | |
| 3. | Bovec L. Courtland and John V. Thill, Business Communication Today, 10 ed., Pearson Education, New Delhi, 2011. | | | | | | | | | | | | |
| 4. | American Management Association, The AMA Handbook of Business Writing: The Ultimate Guide to Style, Usage, Punctuation, Construction and Formatting, 2010. | | | | | | | | | | | | |
| 5. | Gerson, Sharan J., and Steven M Gerson, Technical Writing: Process and Product, Person Education, New Delhi, 2008 | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** |  |  |  | 3 |  | 3 |  |  |
| **CO 2** |  |  |  | 3 |  | 3 |  |  |
| **CO 3** |  |  |  | 3 |  | 3 |  |  |
| **CO 4** |  |  |  | 3 |  | 3 |  |  |
| **CO 5** |  |  |  | 3 |  | 3 |  |  |

**3-Strong 2-Medium 1-Low**

**SEMESTER II**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Applied Operations Research** | Core | 3 | 1 | - | - | 4 | | 60 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To provide the students with introduction on OR and its models to aid in understanding its applicability in the various functional areas of management. | | | | | | | | | | | | |
| C2 | To understand the concept of linear programming models in determining profit maximization and cost minimization | | | | | | | | | | | | |
| C3 | To learn about various methods adopted in transportation and Assignments models. | | | | | | | | | | | | |
| C4 | To determine about inventory models, replacement models, job sequencing, networking model and Queuing model | | | | | | | | | | | | |
| C5 | To throw light on dynamic model and game models and the application of pure and mixed strategies in competitive environment. | | | | | | | | | | | | |
| **SYLLABUS** | | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | Introduction: Overview of operations research – Origin – Nature, scope & characteristics of OR – Models in OR – Application of operations research in functional areas of management | | | | | | | 08 | | | C1 | | |
| II | Linear Programming Problem: Linear programming problem model – Formulation – Maximization & Minimization problem – Graphical method – Simplex method – Artificial variable –- Primal & Dual. | | | | | | | 12 | | | C2 | | |
| III | Transportation problem: Basic Solution – North / West corner Solution, LCM, VAM, Matrices method – Optimal Solution – Stepping stone method – Vogel’s approximation method – Modi method – Degeneracy – Imbalance matrix. Assignment model: Hungarian method – Traveling salesmen problem. | | | | | | | 12 | | | C3 | | |
| IV | Project Scheduling and Resource Management: Deterministic Inventory models – Purchasing & Manufacturing models – Probabilistic inventory models – Replacement model – Sequencing – Brief Introduction to Queuing models. Networking – Programme Evaluation and Review Technique (PERT) and Critical Path Method (CPM) for Project Scheduling- Crashing – Resource allocation and Resource Scheduling. | | | | | | | 18 | | | C4 | | |
| V | Game Theory and Strategies: Games theory – two player zero sum game theory – Saddle Point –Mixed Strategies for games without saddle points – Dominance method – Graphical and L.P Solutions- Goal Programming; Simulation; Integer programming and Dynamic programming. | | | | | | | 10 | | | C5 | | |
|  | **Total** | | | | | | | **60** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Obtain insight on the origin and nature of OR and also the application of various models of OR. | | | | | | | PO4, PO6 | | | | | |
| **CO2** | Learn about the graphical, Simplex, Big M and dual methods of Linear programming problem. | | | | | | | PO1, PO2, PO6, PO7 | | | | | |
| **CO3** | Be well versed with the concept of transportation and Assignments models | | | | | | | PO1, PO2, PO6, PO7 | | | | | |
| **CO4** | Have better understanding on inventory models, replacement models, job sequencing, networking model and Queuing model | | | | | | | PO1, PO2, PO6, PO7 | | | | | |
| **CO5** | Be imparted knowledge on the various methods of game model | | | | | | | PO2, PO7 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | [www.cbom.atozmath.com](http://www.cbom.atozmath.com) | | | | | | | | | | | | |
| 2. | <http://www.pondiuni.edu.in/storage/dde/downloads/mbaii_qt.pdf> | | | | | | | | | | | | |
| 3. | [http://164.100.133.129;81/econtent/Uploads/Operations\_Research.pdf](http://164.100.133.129:81/econtent/Uploads/Operations_Research.pdf) | | | | | | | | | | | | |
| 4. | <https://www.journals.elsevier.com/operations-research-perspectives> | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Anderson, D.R., Sweeney, D.J., Williams, T.A. and Martin, K., An Introduction to Management Science: Quantitative Approach to Decision Making, 14th Edition Paperback – 1, Cengage Learning India Pvt. Ltd., 2019 | | | | | | | | | | | | |
| 2. | Gupta, P.K., and Comboj, Introduction to Operations Research, S. Chand, 2014 | | | | | | | | | | | | |
| 3. | Hiller, F., Liebermann, Nag and Basu, Introduction to Operations Research, 11th Edition Paperback, Tata McGraw-Hill Publishing Co. Ltd., 2021 | | | | | | | | | | | | |
| 4. | Khanna, R.B., Quantitative Techniques for Managerial Decision Making, 3rd Edition – Paperback, New Age International Publishers, 2018 | | | | | | | | | | | | |
| 5. | Taha, H.A., Operations Research: An Introduction, 10th Edition, Pearson, 2019 | | | | | | | | | | | | |
| 6. | Vohra,N.D., Quantitative Techniques in Management, 5th Edition, Tata McGraw Hill Education Pvt. Ltd., 2017. | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** |  |  |  | 2 |  | 2 |  |  |
| **CO 2** | 3 | 2 |  |  |  | 2 | 2 |  |
| **CO 3** | 3 | 3 |  |  |  | 3 | 2 |  |
| **CO 4** | 3 | 3 |  |  |  | 2 | 2 |  |
| **CO 5** |  | 3 |  |  |  |  | 2 |  |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Human Resource Management** | Core | 4 | - | - | - | 4 | | 60 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To embark importance of HRM role, functions and need | | | | | | | | | | | | |
| C2 | To assimilate theoretical and practical implications of HRP | | | | | | | | | | | | |
| C3 | To critically use appropriate training tools | | | | | | | | | | | | |
| C4 | To analyze and implement an effective performance management | | | | | | | | | | | | |
| C5 | To extrapolate and design compensation management techniques | | | | | | | | | | | | |
| **SYLLABUS** | | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | **Introduction:** Introduction of Human Resource Management: Importance of Human Resources, Definition and Objectives of Human Resources Management, Qualities of a good HR manager – Evolution and growth of Human Resource Management in India. Functions of Human Resource Management. Strategic Human Resource Management (SHRM).Human Resource Policies: Need, type and scope, Human Resource Accounting and Audit- Gig Economy. | | | | | | | 12 | | | C1 | | |
| II | **Human Resource Planning (HRP):** Human Resources Planning: Long and Short term planning, Job Analysis, Skills inventory, Job Description, Job Specification and Succession Planning, Strategic Human Resource Planning.  Recruitment and selection: Purposes, types and methods of recruitment and selection, Relative merits and demerits of the different methods, Recruitment and Social Media.  Placement, Induction, Transfers, Promotions, Dismissal, Resignation, Exit Interviews, Reduction of attrition rate- Attrition and retention management | | | | | | | 12 | | | C2 | | |
| III | **Training, Development & Career Management:**  Importance and benefits of Training and Development, Types of Training Methods, Executive Development Programs, Concept and process of Career Management; Competency mapping, Knowledge Management & Talent Management. | | | | | | | 12 | | | C3 | | |
| IV | **Performance Management:**  Importance, process and Methods: Ranking, rating scales, critical incident method, Removing subjectivity from evaluation, MBO as a method of appraisal, Performance Feedback, Online PMS. Human Resource Information System; International Human Resource Management; Cross cultural diversity management; Hybrid work culture; work-life balance; Quality of work-life; HR Analytics. | | | | | | | 12 | | | C4 | | |
| V | **Compensation Management:** Wage and Salary Administration: Job Evaluation, Calculation of Wage, Salary, Prerequisites, Compensation Packages, Cost of Living Index and Calculation of Dearness Allowance, Rewards and Incentives; ESOP-Financial and non-financial incentives, Productivity – linked Bonus, Compensation Criteria, Rewards and Recognition. | | | | | | | 12 | | | C5 | | |
|  | **Total** | | | | | | | **60** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Gain an understanding of HRM policies and importance. | | | | | | | PO4, PO6 | | | | | |
| **CO2** | Implement appropriate HRP in workplace. | | | | | | | PO6 | | | | | |
| **CO3** | Apply feasible Training method and manage career progressions. | | | | | | | PO5, PO6, PO7 | | | | | |
| **CO4** | Demonstrate managing performance of human resources. | | | | | | | PO6, PO7 | | | | | |
| **CO5** | Design and justify compensation framework. | | | | | | | PO4, PO6, PO7 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | <https://businessjargons.com/performance-management.html> | | | | | | | | | | | | |
| 2. | <https://www.hr-guide.com/data/G400.htm> | | | | | | | | | | | | |
| 3. | <https://www.managementstudyguide.com/training-development-hr-function.htm> | | | | | | | | | | | | |
| 4. | <https://www.tandfonline.com/toc/rijh20/current> | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Ashwathappa, K., Human Resource Management, 9th Edition, Tata McGraw-Hill Education Pvt. Ltd., 2021. | | | | | | | | | | | | |
| 2. | Ivanecevich, J.M., Human Resource Management, 12th Edition, Tata McGraw-Hill Education Pvt. Ltd., 2020. | | | | | | | | | | | | |
| 3. | Gary Dessler & Biju Varrkey, Human Resource Management, 16th Edition, Pearson India Pvt. Ltd., 2020. | | | | | | | | | | | | |
| 4 | DeCenzo, D.A., Robbins S.P., Susan L Verhulst, Human Resource Management, 11th Edition, Wiley India Pvt. Ltd., 2015. | | | | | | | | | | | | |
| 5. | Leigh Thompson, Making the team, A guide for Managers, Pearson, 6th Edition 2019. | | | | | | | | | | | | |
| 6. | Gary Dessler, Fundamentals of Human Resource Management, Pearson, 4th Edition 2017. | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** |  |  |  | M |  | M |  |  |
| **CO 2** |  |  |  |  |  | M |  |  |
| **CO 3** |  |  |  |  | S | S | M |  |
| **CO 4** |  |  |  |  |  | M | M |  |
| **CO 5** |  |  |  | M |  | M | M |  |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Marketing Management** | Core | 4 | - | - | - | 4 | | 60 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To develop an understanding and enhance the knowledge about marketing theories, principles, strategies and concepts and how they are applied. | | | | | | | | | | | | |
| C2 | To provide with opportunities to analyze marketing activities within the firm. | | | | | | | | | | | | |
| C3 | To analyze and explore the buyer behavior pattern in marketing situations. | | | | | | | | | | | | |
| C4 | To understand the branding, pricing and strategies in marketing a product. | | | | | | | | | | | | |
| C5 | To upgrade the knowledge and awareness of Consumer Rights in the Market. | | | | | | | | | | | | |
| **SYLLABUS** | | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | Introduction: Marketing Management Philosophies – What is marketing- The concepts of marketing- Marketing and Services – Digital Marketing – Social Media Marketing – Current marketing challenges; Rural Marketing – E-Rural Marketing – International Marketing – Industrial Marketing. | | | | | | | 12 | | | C1 | | |
| II | Strategic Marketing– Marketing Management Process – Analysis of Marketing opportunities, Selecting Target Consumers, developing Marketing Mix Analysis of Macro and Micro environment Marketing Research as an Aid to Marketing, Marketing Research Process – Sales Forecasting –Techniques. Marketing Tactics, The Mix Service and Retail Marketing. | | | | | | | 12 | | | C2 | | |
| III | MIS: Marketing Information Systems- Customer Relationship Management (CRM) Customer Engagement Marketing – Sales force Automation- Marketing Analytics | | | | | | | 12 | | | C3 | | |
| IV | Buyer Behaviour: Factors Influencing Consumer Behaviour – Buying situation– Buying Decision Process – Industrial Buyer Behaviour. Market Segmentation : Targeting and Positioning – Competitive Marketing Strategies. Customer Life Cycle – Customer Life time Value, Product Portfolio Management. | | | | | | | 12 | | | C4 | | |
| V | Product Policies: Consumer and Industrial Product Decisions, Branding, Packaging and Labelling – New Product Development and Product Life Cycle Strategies, Pricing – Pricing Strategies and approaches, Promotion Decisions: Promotion Mix – Integrated Marketing Communication – Advertising and Sales Promotion - Sales Force Decisions, Selection, Training, Compensation and Control – Publicity and Personal Selling – Distribution Management – Channel Management: Selection, Co-operation and Conflict Management – Vertical, Horizontal and Multi-channel Systems Consumer Protection – Awareness of Consumer Rights in the Market Place. | | | | | | | 12 | | | C5 | | |
|  | **Total** | | | | | | | **60** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Understand the fundamental principles of marketing, marketing concepts and ideas. | | | | | | | PO4, PO6, PO7 | | | | | |
| **CO2** | Understand the organization’s marketing strategy and marketing environment. Familiar with marketing research with forecasting techniques. | | | | | | | PO4, PO6 | | | | | |
| **CO3** | Understand the buyer behavior and market segmentation and competitive marketing strategies. | | | | | | | PO4, PO6, PO7 | | | | | |
| **CO4** | Think strategically about branding, pricing and marketing issues. | | | | | | | PO3, PO4, PO6, PO7 | | | | | |
| **CO5** | Familiar with Promotion decisions along with awareness on Consumer Rights in the Market Place. | | | | | | | PO6, PO8 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | <https://ocw.mit.edu/courses/sloan-school-of-management/15-810-marketing-management-fall-2010/lecture-notes/> | | | | | | | | | | | | |
| 2. | <https://cpbucket.fiu.edu/mar3023vd1131/syllabus.html> | | | | | | | | | | | | |
| 3. | <https://www.ama.org/ama-academic-journals/> | | | | | | | | | | | | |
| 4. | <https://www.emerald.com/insight/publication/issn/0736-3761> | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Pillai & Baghawathy, Marketing Management, S.Chand , 2010. | | | | | | | | | | | | |
| 2. | Gupta Prachi, Aggarwal Ashita , et al., Marketing Management: Indian Cases, 1st Edition, 2017 | | | | | | | | | | | | |
| 3. | G.Shainesh Philip Kotler, et..al., Marketing Management; Indian Case Studies included, 16th Edition, Pearson, 2022 | | | | | | | | | | | | |
| 4. | [Warren J. Keegan](https://www.amazon.in/Warren-J-Keegan/e/B001ILHKJY?ref=sr_ntt_srch_lnk_2&qid=1656309878&sr=1-2), Global Marketing Management, 8thEdition, Pearson, 2017. | | | | | | | | | | | | |
| 5. | Mullins, Marketing Management: A Strategic Decision Making Approach, 7th Edition, McGraw-Hill, 2010. | | | | | | | | | | | | |
| 6. | Philip Kotler and  [Keven Lane Keller](https://www.amazon.in/s/ref=dp_byline_sr_book_2?ie=UTF8&field-author=Keven+Lane+Keller&search-alias=stripbooks), Marketing Management, 15th Edition, Pearson, 2015 | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** |  |  |  | 2 |  | 2 | 2 |  |
| **CO 2** |  |  |  | 3 |  | 3 |  |  |
| **CO 3** |  |  |  | 2 |  | 2 | 2 |  |
| **CO 4** |  |  | 2 | 2 |  | 2 | 2 |  |
| **CO 5** |  |  |  |  |  | 2 |  | 2 |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Operations Management** | Core | 3 | 1 | - | - | 4 | | 60 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To understand the production function, production design & capacity planning, | | | | | | | | | | | | |
| C2 | Exploring the Make or Buy decision, and thus understanding the role of inventory management | | | | | | | | | | | | |
| C3 | To determine multiple plant location decisions and effective utilization of plant layout. To explain the models, concepts, and techniques adopted in the areas of inventory control and maintenance. | | | | | | | | | | | | |
| C4 | To elucidate the importance and usefulness of work-study and quality control tools | | | | | | | | | | | | |
| C5 | To provide insights on service operations management and waiting line analysis. | | | | | | | | | | | | |
| **SYLLABUS** | | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | INTRODUCTION: Operations Management- Nature, Scope, Historical Development, Functions- Long term Vs Short term issues- A Systems Perspective- Challenges- Manufacturing Trends in India-Production Design and Process Planning- Types of Production Processes- Plant Capacity-Capacity Planning- Make or Buy Decisions- Use of Crossover Chart for Selection Processes-Types of Charts used in Operations Management. | | | | | | | 12 | | | C1 | | |
| II | FACILITY DESIGN: Plant Location: Factors to be considered in Plant Location- Location Analysis Techniques- Choice of General Region, Particular community and Site- Multiple Plant Location Decision- Plant Location Trends. Layout of Manufacturing Facilities: Principles of a Good Layout- Layout Factors- Basic Types of Layout- Principles of Materials Handling- Materials Handling Equipment - Role of Ergonomics in Job Design. | | | | | | | 12 | | | C2 | | |
| III | INVENTORY CONTROL AND MAINTENANCE: Basic Inventory Models- Economic Order Quantity- Economic Batch Quantity- Reorder Point-Safety Stock- Inventory Costs-Classification and Codification of Stock- ABC Classification-Materials Requirement Planning (MRP)- JIT- Implications of Supply Chain Management. Maintenance: Preventive Vs Breakdown Maintenance- Group Replacement Vs Individual Replacement- Breakdown Time Distribution- Maintenance of Cost Balance- Procedure for Maintenance. | | | | | | | 12 | | | C3 | | |
| IV | DESIGN OF WORK SYSTEMS AND QUALITY CONTROL: Work Study- Objectives- Procedure- Method Study and Motion Study- Work Measurement-Time Study-Performance Rating- Allowance Factors- Standard Time- Work Sampling Techniques- Job Sequencing and Scheduling. Quality Control: Purpose of Inspection and Quality Control- Different Types of Inspection- Acceptance Sampling- The Operating Characteristic Curve- Control Charts for Variables and Attributes; Quality Circles; TQM – Six Sigma, Kaizen | | | | | | | 14 | | | C4 | | |
| V | SERVICE OPERATIONS MANAGEMENT: Introduction to Services Management- Nature of Services- Types of Services- Service Encounter-Designing Service Organizations- Service Facility Location and Layout- Service Blueprinting-Waiting Line Analysis for Service Improvement- Service Processes and Service Delivery. | | | | | | | 10 | | | C5 | | |
|  | **Total** | | | | | | | **60** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Understand the concepts of production and its design, capacity planning and make or buy decisions. | | | | | | | PO2, PO4 | | | | | |
| **CO2** | Be cognizant of the complexity involved in plant location decisions and utilization of plant layout. | | | | | | | PO2, PO7 | | | | | |
| **CO3** | Understand the Inventory models and the importance of maintenance techniques. | | | | | | | PO6, PO7 | | | | | |
| **CO4** | Be aware of work-study procedures and the importance on quality control tools | | | | | | | PO1, PO2, PO6, PO7 | | | | | |
| **CO5** | Have insight on service operations, service delivery and waiting line analysis. | | | | | | | PO2, PO6, PO7 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | [www.shsu.edu/~mgt\_ves/mgt560/ServiceManagement.ppt](http://www.shsu.edu/~mgt_ves/mgt560/ServiceManagement.ppt) | | | | | | | | | | | | |
| 2. | zums.ac.ir/files/research/site/ebooks/strategy/operations-strategy.pdf | | | | | | | | | | | | |
| 3. | <https://www.emerald.com/insight/publication/issn/0144-3577> | | | | | | | | | | | | |
| 4. | <https://www.inderscience.com/jhome.php?jcode=ijaom> | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Aswathappa K and Shridhara Bhat K, Production and Operations Management, 2nd Edition, Himalaya Publishing House, 2021. | | | | | | | | | | | | |
| 2. | Mahadevan B, Operations Management Theory and Practice, 3rd Edition, Pearson Education, 2015. | | | | | | | | | | | | |
| 3. | Russel and Taylor, Operations and Supply Chain Management, 8th Edition, Wiley, 2021. | | | | | | | | | | | | |
| 4. | William J Stevenson, Operations Management, 14th Edition, McGraw Hill, 2021. | | | | | | | | | | | | |
| 5. | Gerard Cachon and Christian Terwiesch, Operations Management, 3rd Edition, McGraw Hill, 2022. | | | | | | | | | | | | |
| 6. | Prof. K C Jain, Production and Operations Management, 1st Edition, Wiley, 2022. | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** |  | 2 |  | 2 |  |  |  |  |
| **CO 2** |  | 2 |  |  |  |  | 2 |  |
| **CO 3** |  |  |  |  |  | 2 | 2 |  |
| **CO 4** | 2 | 2 |  |  |  | 2 | 2 |  |
| **CO 5** |  | 2 |  |  |  | 2 | 2 |  |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Financial Management** | Core | 3 | 1 | - | - | 4 | | 60 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To create an understanding and familiarize the students to the fundamentals of financial management and create awareness on the various sources of finance. | | | | | | | | | | | | |
| C2 | To create awareness on the various investment techniques on the investment decision making. | | | | | | | | | | | | |
| C3 | To throw light on the concept of cost of capital and familiarize on the technique of identifying the right source of capital. | | | | | | | | | | | | |
| C4 | To educate on the concept of capital structure and the create understanding on the concept of dividend. | | | | | | | | | | | | |
| C5 | To create an understanding on the concept of working capital, its need, importance, factors and forecasting technique | | | | | | | | | | | | |
| **SYLLABUS** | | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | Introduction: Financial management: Definition and scope – objectives of Financial Management – Profit Maximization - wealth maximization - functions and role of finance manager. Sources of finance – short term – Bank Sources – Long term – Shares – Debentures – Preferred stock – Debt: Hire purchase, Leasing, Venture Capital – Private equity- International Financial Management- Financial Planning- Behavioural Finance- Capital Market- Money Market- Micro Finance- Financial Information System. | | | | | | | 12 | | | C1 | | |
| II | Investing Decision - Capital Budgeting Process – Techniques of Investment Appraisal: Pay Back Period; Accounting Rate of Return, Time Value of Money- DCF Techniques –Net Present Value, Profitability Index and Internal Rate of Return- Problems - Risk analysis in Capital Budgeting- Introduction to Fintech – Digital Currency - Cryptocurrency – Financial Modeling; Hurdle Rate. | | | | | | | 12 | | | C2 | | |
| III | Cost of Capital - Cost of specific sources of capital – Cost of equity capital – Cost of debt – Cost of preference – Cost of retained earnings - weighted average cost of capital. EBIT -EPS Analysis - Operating Leverage - Financial Leverage-problems. | | | | | | | 12 | | | C3 | | |
| IV | Capital structure - Factors influencing capital structure – optimal capital structure - capital structure theories – Net Income Approach – Net Operating Income (NOI) Approach – Modigliani - Miller(MM) Approach – Traditional Approach – Practical Problems. Dividend and Dividend policy: Meaning, classification - sources available for dividends -Dividend policy general, determinants of dividend policy. | | | | | | | 12 | | | C4 | | |
| V | Working Capital Management - Definition and Objectives - Working Capital Policies - Factors affecting Working Capital requirements - Forecasting Working Capital requirements (problems) - Cash Management - Receivables Management and - Inventory Management - Working Capital Financing - Sources of Working Capital and Implications of various Committee Reports- Financial Analytics. | | | | | | | 12 | | | C5 | | |
|  | **Total** | | | | | | | **60** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Be aware of the basic concepts of financial management and understand the various sources of finance. | | | | | | | PO4, PO6, PO7 | | | | | |
| **CO2** | Possess knowledge on investment decision making. | | | | | | | PO1, PO2, PO6, PO7 | | | | | |
| **CO3** | Have insights on the cost of capital and would have familiarized themselves with the technique of calculating the cost of capital. | | | | | | | PO2, PO7 | | | | | |
| **CO4** | Have learnt the concept of capital structure and dividend | | | | | | | PO6, PO7 | | | | | |
| **CO5** | Have good understanding on the concept of working capital, its need, importance, factors and the methods of forecasting it. | | | | | | | PO1,PO2, PO4, PO7 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | https://accountingexplained.com/managerial/capital-budgeting/ | | | | | | | | | | | | |
| 2. | http://www.studyfinance.com/lessons/workcap/ | | | | | | | | | | | | |
| 3. | Journal of International Financial Management & Accounting | | | | | | | | | | | | |
| 4. | The Management Accountant Journal - icmai-rnj.in | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | S.N.Maheswari, Finanacial Management, Sulthan Chand & Sons, 15th Edition, 2019 | | | | | | | | | | | | |
| 2. | I.M. Pandey Financial Management, Vikas Publishing House Pvt. Ltd., 11th edition, 2018. | | | | | | | | | | | | |
| 3. | Van Horne, J.C., Financial Managememt and Policy, 13th Edition, Pearson, 2015. | | | | | | | | | | | | |
| 4. | Prasanna Chandra, Financial Management, 10th edition, Tata McGraw Hill, 2019 | | | | | | | | | | | | |
| 5. | Periasamy, P., Financial Management, 4th Edition, Tata McGraw-Hill Education Pvt. Ltd., 2017. | | | | | | | | | | | | |
| 6. | Brigham, E.F. and Ehrhardt, M.C., Financial Management: Theory and Practice, 14th Edition, 2015. | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** |  |  |  | 2 |  | 2 | 2 |  |
| **CO 2** | 2 | 3 |  |  |  | 2 | 2 |  |
| **CO 3** |  | 2 |  |  |  |  | 3 |  |
| **CO 4** |  |  |  |  |  | 2 | 3 |  |
| **CO 5** | 2 | 2 |  | 3 |  |  | 2 |  |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | **Inst. Hours** | | **Marks** | | | |
| **CIA** | **External** | **Total** | |
|  | **Strategic Management** | Core | 4 | - | - | - | 4 | 60 | | 25 | 75 | 100 | |
| **Course Objectives** | | | | | | | | | | | | |
| C1 | To enable the students understand the importance of vision and mission in framing corporate strategy. | | | | | | | | | | | |
| C2 | To provide insights on how business is responsible socially and ethically. | | | | | | | | | | | |
| C3 | To highlight on the environmental analysis framework. | | | | | | | | | | | |
| C4 | To throw light on strategic formulation and strategic choice. | | | | | | | | | | | |
| C5 | To understand strategic implementation and strategic control. | | | | | | | | | | | |
| **SYLLABUS** | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | **No. of Hours** | | | **Course Objectives** | | | |
| I | Introduction: Strategy – Strategic Management Process – Developing a Strategic Vision –Mission- Setting Objectives– Strategies and Tactics – Importance of Corporate Strategy – the 7-S Framework- Corporate Governance– Board of Directors: Role and Functions – Board Functioning – Top Management: Role and Skills. | | | | | 12 | | | C1 | | | |
| II | Corporate Policy and Planning in India: Importance – Characteristics – Objectives - Policy Formulation and Development – Types of Business Policies-Implementation of Policies. Society and Business: Social Responsibility of Business –Corporate Governance and Ethical Responsibility. | | | | | 12 | | | C2 | | | |
| III | Environmental Analysis: Environmental Scanning – Industry Analysis - The Synthesis of External Factors - Internal Scanning – Value Chain Analysis – SWOT Audit –Scenario planning- Creating an Industry Matrix. | | | | | 12 | | | C3 | | | |
| IV | Strategy Formulation and Analysis: Strategy Formulation – Strategic Factors Analysis Summary Matrix (SFAS) Portfolio Analysis – Business Strategy- TOWS Matrix– Corporate Strategy – Functional Strategy – Strategic Choice – Generic, Competitive Strategies; ETOP, TOWS | | | | | 12 | | | C4 | | | |
| V | Strategy Implementation: Strategy Implementation - Corporate Culture – Matching Organisation Structure to Strategy – Mergers and Acquisitions and Diversifications – Strategic Leadership Strategic Control: Measurement in Performance- Problems in Measurement of Performance- Strategy Audit-Strategic Control Process – Du Pont’s Control Model – Balanced Score Card – Michael Porter’s Framework for Strategic Management – Future of Strategic Management – Strategic Information System. | | | | | 12 | | | C5 | | | |
|  | **Total** | | | | | **60** | | |  | | | |
| **Course Outcomes** | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | **Program Outcomes** | | | | | | |
| **CO1** | Be able to frame vision and mission statements. | | | | | PO3, PO4, PO7 | | | | | | |
| **CO2** | Be social and ethically responsible. | | | | | PO3, PO8 | | | | | | |
| **CO3** | Possess insights on making environmental analysis. | | | | | PO3, PO8 | | | | | | |
| **CO4** | Possess knowledge on learning strategic formulation & strategy choice. | | | | | PO2, PO5, PO7 | | | | | | |
| **CO5** | Understanding strategic implementation and control. | | | | | PO4, PO5, PO7 | | | | | | |
| **Reading List** | | | | | | | | | | | | |
| 1. | Strategic Management Journal – Wiley online Library | | | | | | | | | | | |
| 2. | Journal of strategy and Management – Emerald Insight | | | | | | | | | | | |
| 3. | Mastering Strategic Management – [www.opentextbooks.org.hk](http://www.opentextbooks.org.hk) | | | | | | | | | | | |
| 4. | Mastering Strategic Management – [www.saylor.org](http://www.saylor.org). | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | |
| 1. | V S P Rao, Strategic Management Text and Cases, 2nd edition 2013. | | | | | | | | | | | |
| 2. | Kazmi, A., Strategic Management and Business Policy, 15th Edition, Tata McGraw-Hill Education, 2018. | | | | | | | | | | | |
| 3. | Dess, G., Lumpkin, G.T. and Eisner, A., Strategic Management, 8th Edition, Tata McGraw-Hill, 2018. | | | | | | | | | | | |
| 4. | Hill, C.W.L. and Jones, G.R., Strategic Management: An Integrated Approach, 9th Edition, Cengage Learning, 2012. | | | | | | | | | | | |
| 5. | Pearce II, J., Robinson, R.B. and Mittal, A., Strategic Management: Formulation, Implementation and Control, 12th Edition, McGraw-Hill, 2017. | | | | | | | | | | | |
| 6. | Wheelen, T.L. and Hunger, D., Strategic Management and Business Policy, 13th Edition, Pearson, 2012. | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** |  |  | 3 | 2 |  |  | 3 |  |
| **CO 2** |  |  | 3 |  |  |  |  | 3 |
| **CO 3** |  |  | 2 |  |  |  |  | 3 |
| **CO 4** |  | 2 |  |  | 3 |  |  | 2 |
| **CO 5** |  |  |  | 3 | 3 |  |  | 3 |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **International Business** | Extra Disciplinary | 3 | - | - | - | 3 | | 45 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To understand and analyze international situations and evaluate international collaborative arrangements and strategic alliances. | | | | | | | | | | | | |
| C2 | To apply knowledge of political, legal, economic and cultural country differences to develop competitive strategies in foreign, regional and global markets. | | | | | | | | | | | | |
| C3 | To throw light on international trade theories and the management of business functional operations in an international context. | | | | | | | | | | | | |
| C4 | To analyze and evaluate barriers, opportunities, market entry modes and the process of internationalization. | | | | | | | | | | | | |
| C5 | To know about regional economic integration and contemporary issues in international business. | | | | | | | | | | | | |
| **SYLLABUS** | | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | Introduction: Introduction to International Business: Importance, nature and scope of International business-International Business Vs. Domestic Business; Tariff and non-tariff barriers- transition from Domestic to International Business; Advantages and disadvantages of International business; Balance of Payments; Balance of Trade; Balance of Current Account . Modes of entry into International Business- Internationalization process and managerial implications- Multinational Corporations and their involvement in International Business- Issues in foreign investments, technology transfer, pricing and regulations- International collaborative arrangements and strategic alliances- Counter Trade; Import-Export Process and Documentation. | | | | | | | 9 | | | C1 | | |
| II | International Business Environment and Cultural Differences: International Business Environment: Economic, Political, Cultural and Legal environments in International Business. Framework for analyzing International Business environment. Differences in Culture: Introduction — Social Structure — Religion — Language — Education —Culture and the Workplace — Cultural Change — Cross-cultural Literacy — Culture and Competitive Advantage. | | | | | | | 9 | | | C2 | | |
| III | International Trade Theory: Introduction — Mercantilism, Neo-Mercantilism — Theory of Absolute Advantage — Theory of Comparative Advantage — Heckscher-Ohlin Theory — The New Trade Theory — National Competitive Advantage — Porter's Diamond —General Agreement on Tariff and Trade (GATT)- World Trade Organization (WTO)-GATS-UNCTAD- Trade Blocks; Customs Union-EU- PTA- European Free Trade Area (EFTA)-Central American Common Market(CACM)-Latin American Free Trade Association(LAFTA)- North American Free Trade Agreement(NAFTA)- Association of South East Asian Nations(ASEAN)- CARICOM- GSTP-GSP-SAPTA-Indian Ocean RIM Initiative- BIMSTEC- Bretton Woods Twins- World Bank & IMF, International Finance Corporation- Multilateral Investment Guarantee Agency (MIGA). | | | | | | | 9 | | | C3 | | |
| IV | Global Trading and Investment Environment: Recent Trends in India’s Foreign Trade- India’s Commercial Relations and Trade Agreements with other countries- Institutional Infrastructure for export promotion in India- Export Assistance- Export Finance- Export Processing Zones (EPZs) - Special Economic Zones (SEZs)- Exports by Air, Post and Sea- Small Scale Industries (SSI) and Exports- Role of ECGC- Role of EXIM Bank of India- Role of Commodity Boards- Role of State Trading Agencies in Foreign Trade- STC, MMTC, etc. Foreign Exchange Market- Functions of Foreign Exchange Market- Foreign Direct Investments (FDI); forms of FDI — Horizontal and Vertical Foreign Direct Investment — Advantages of FDI to Host and Home Countries. | | | | | | | 9 | | | C4 | | |
| V | Contemporary Issues: Contemporary Issues in International Business- International Sales Contract- Major Laws- INCO terms- Standard Clauses of International Sales Contract- Role of Indian Council of Arbitration / International Chamber of Commerce in solving Trade disputes. Export Regulations: Procedure for export of goods- Quality Control and Pre- shipment Inspection- Customs Clearance- Port formalities- Exchange regulations for Export- Role of Clearing and Forwarding Agents. | | | | | | | 9 | | | C5 | | |
|  | **Total** | | | | | | | **45** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Be aware of the international situations and evaluate international collaborative arrangements and strategic alliances. | | | | | | | PO2, PO4, PO7 | | | | | |
| **CO2** | Possessed knowledge of political, legal, economic and cultural country differences to develop competitive strategies in foreign, regional and global markets. | | | | | | | PO4, PO7 | | | | | |
| **CO3** | Know the various international trade theories and the management of business functional operations in an international context. | | | | | | | PO4, PO6, PO7 | | | | | |
| **CO4** | Be able to evaluate barriers, opportunities, market entry modes and the process of internationalization. | | | | | | | PO2, PO4, PO7 | | | | | |
| **CO5** | Have better understanding on regional economic integration and contemporary issues in international business. | | | | | | | PO6, PO7, PO8 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | [www.internationalbusinesscorporation.com](http://www.internationalbusinesscorporation.com) | | | | | | | | | | | | |
| 2. | [www.business-ethics.org](http://www.business-ethics.org) | | | | | | | | | | | | |
| 3. | <https://www.jstor.org/journal/jintebusistud> | | | | | | | | | | | | |
| 4. | Journal of International Business and Management (JIBM) | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | International Business: Competing in the Global Marketplace (SIE) | 11th Edition – 14 August 2018 by [Charles W. L. Hill](https://www.amazon.in/Charles-W-L-Hill/e/B001IGNO5S/ref=dp_byline_cont_book_1)  (Author), [G. Tomas M. Hult](https://www.amazon.in/s/ref=dp_byline_sr_book_2?ie=UTF8&field-author=G.+Tomas+M.+Hult&search-alias=stripbooks) (Author), [Rohit Mehtani](https://www.amazon.in/s/ref=dp_byline_sr_book_3?ie=UTF8&field-author=Rohit+Mehtani&search-alias=stripbooks) (Author) | | | | | | | | | | | | |
| 2. | International Business | Fourth Edition | By Pearson – 30 November 2017 by [S. Tamer Cavusgil](https://www.amazon.in/s/ref=dp_byline_sr_book_1?ie=UTF8&field-author=S.+Tamer+Cavusgil&search-alias=stripbooks) (Author), [Gary Knight](https://www.amazon.in/s/ref=dp_byline_sr_book_2?ie=UTF8&field-author=Gary+Knight&search-alias=stripbooks) (Author), [John Riesenberger](https://www.amazon.in/s/ref=dp_byline_sr_book_3?ie=UTF8&field-author=John+Riesenberger&search-alias=stripbooks) (Author) | | | | | | | | | | | | |
| 3. | Cherunilam, F., International Business: Text and Cases, 5th Edition, PHI Learning, 2010. | | | | | | | | | | | | |
| 4. | Paul, J., International Business, 5th Edition, PHI Learning, 2010. | | | | | | | | | | | | |
| 5. | Deresky, H., International Management: Managing Across Borders and Cultures, 6th Edition, Pearson, 2011. | | | | | | | | | | | | |
| 6. | Griffin, R., International Business, 7th Edition, Pearson Education, 2012. | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** |  | 2 |  | 3 |  |  | 2 |  |
| **CO 2** |  |  |  | M |  |  | 2 |  |
| **CO 3** |  |  |  | 3 |  | 3 | 3 |  |
| **CO 4** |  | 3 |  | 3 |  |  | 3 |  |
| **CO 5** |  |  |  |  |  | 3 | 3 | 3 |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Soft Skills II - Business Etiquette** | Soft Skills | - | - | 2 | - | 2 | | 30 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To analyze the Business etiquette at workplace | | | | | | | | | | | | |
| C2 | To determine the Principles of exceptional work behavior | | | | | | | | | | | | |
| C3 | To explore Tech etiquette in using various telecommunication devices and channels | | | | | | | | | | | | |
| C4 | To successfully handle Multi-cultural challenges | | | | | | | | | | | | |
| C5 | To ascertain sensitivity to new and emerging issues in etiquette | | | | | | | | | | | | |
| **SYLLABUS** | | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | Introduction to business etiquette: The ABCs of etiquette Meeting and greeting scenarios-Developing a culture of excellence The principles of exceptional work behaviour - What is the role of Good Manners in Business?-Enduring Words  Greetings and Introductions: Guideline for receptionists - Making introductions and greeting people- Greeting Components- The protocol of shaking hands- Introductions - Introductory scenarios - Addressing individuals. | | | | | | | 6 | | | C1 | | |
| II | Meeting and Boardroom Protocol: Guidelines for planning a meeting - Before the meeting - On the day of the Meeting - Guidelines for Attending the meeting - For the Chairperson- For attendees - For Presenters - Planning a power point presentation-Dealing with customer complaints.  Entertaining Etiquette: Planning a meal- Issuing invitations -Business meals basics - Basics of table etiquette - Holding and resting utensils - Business dining etiquette - Multi-cultural Highlight: Japanese Dinning-Specific food Etiquette guidelines. | | | | | | | 6 | | | C2 | | |
| III | Telephone Etiquette: Cell phone etiquette-Social Media Usage etiquette- Telephone etiquette guidelines - Mastering the telephone courtesy - Active listening - Putting callers on hold -Transferring a call - Screening calls - Taking at message - Voice Mail-Closing the call - When Making calls - Closing the call-Handling rude or impatient clients  Internet & email etiquette: Internet usage in the workplace Email- Netiquette - Online chat - Online chat etiquette - Online chat etiquette guidelines | | | | | | | 6 | | | C3 | | |
| IV | Business Attire & Professionalism: Business style and professional image - Dress code - Guidelines for appropriate business attire - Grooming for  success - Guidelines for appropriate business attire - Grooming for success - Multicultural dressing  Diversity Management- Gender Sensitivity- Social Media and Communication with colleagues-Preventing sexual harassment-Disability Etiquette: Basic disability Etiquette practices - Courtesies for wheelchair users Courtesies for blind or visually impaired - Courtesies for the deaf- People with speech impairments. | | | | | | | 6 | | | C4 | | |
| V | Business Ethics: Ethics in the workplace - The challenge of business ethics - Creating an ethical compass - Business ethics and advantages - Ethical Issues - Conflict Management- Conflict resolution strategies - Choosing the appropriate gift in the business environment  Multi-cultural challenges: Multi-cultural etiquette - Example of cultural sensitivity - Cultural differences and their effect on business etiquette- onsite projects-Cultural Highlight: China-Cultural Highlight: India. | | | | | | | 6 | | | C5 | | |
|  | **Total** | | | | | | | **30** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Learn using business etiquette at work place | | | | | | | PO4, PO6, PO7 | | | | | |
| **CO2** | Be able to acquire knowledge about the Principles of exceptional work behaviour | | | | | | | PO4, PO6, PO7 | | | | | |
| **CO3** | Be able to enhance their knowledge of latest Tech etiquette in using various telecommunication devices and channels. | | | | | | | PO4, PO6, PO7 | | | | | |
| **CO4** | Get familiarized with the Successful handling of Multi-cultural challenge | | | | | | | PO4, PO6, PO7 | | | | | |
| **CO5** | Become sensitive to new and emerging issues in etiquette | | | | | | | PO4, PO6, PO7 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | https://accountingexplained.com/managerial/capital-budgeting/ | | | | | | | | | | | | |
| 2. | http://www.studyfinance.com/lessons/workcap/ | | | | | | | | | | | | |
| 3. | Journal of International Financial Management & Accounting | | | | | | | | | | | | |
| 4. | The Management Accountant Journal - icmai-rnj.in | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Gonda, C. M. (2016) Master of Business Etiquette: The Ultimate Guide to Corporate Etiquette and Soft Skills Embassy Books, First Edition. | | | | | | | | | | | | |
| 2. | Mehra, S. K. (2012) Business Etiquette A Guide For The Indian Professional. Noula: HarperCollins | | | | | | | | | | | | |
| 3. | Pachter, B. (2013). The Essentials of Business Etiquette: How to Greet, Eat, and Tweet Your Way to Success (1) edition New York: McGraw-Hill Education. | | | | | | | | | | | | |
| 4. | Past, K. (2008). Indian Business Etiquette: 1 (First edition). Ahmedabad Jaico Publishing House. | | | | | | | | | | | | |
| 5. | Travis, R. (2013). Tech Eliquette: OMG, 2 Edition, RLT Publishing. | | | | | | | | | | | | |
| 6. | Gonda, C. M. (2016) Master of Business Etiquette: The Ultimate Guide to Corporate Etiquette and Soft Skills Embassy Books, First Edition. | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** |  |  |  | 2 |  | 2 | 2 |  |
| **CO 2** |  |  |  | 2 |  | 2 | 2 |  |
| **CO 3** |  |  |  | 2 |  | 2 | 2 |  |
| **CO 4** |  |  |  | 2 |  | 2 | 2 |  |
| **CO 5** |  |  |  | 2 |  | 2 | 2 |  |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Soft Skills III – Computing Skills** | Soft Skills | - | - | 2 | - | 2 | | 30 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To create awareness and understanding on the basic functions of MS Excel | | | | | | | | | | | | |
| C2 | To elucidate the students on the various advanced functions of MS Excel | | | | | | | | | | | | |
| C3 | To educate the students on MS Access and its application in database management | | | | | | | | | | | | |
| C4 | To enable the students to understand the functions and usage of various cloud based apps like Google Drive, Google Sheets and Google Docs | | | | | | | | | | | | |
| C5 | To enable the students learn the functions and usage of Cloud based apps like Google Forms, Google Slides and Google Cloud Printing. | | | | | | | | | | | | |
| **SYLLABUS** | | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | MS Excel – Basic Functions - Workbook – Building – modifying - navigating; Worksheet – Auto fill copying and moving cells, inserting and deleting rows, printing; Formulas and functions-Troubleshooting formulas, Functions and its forms like database, reference, Databases – creating, sorting filtering and linking. | | | | | | | 6 | | | C1 | | |
| II | MS Excel Advanced Functions – Vlookup – Hlookup – Charts – Count - Countif – Sum - Sumif – Product – Sumproduct.  Functions: Mathematical - Financial - logic – Text - Statistical | | | | | | | 6 | | | C2 | | |
| III | MS Access – Components, creating a database and project, import and exporting, customizing; Tables – creating and setting fields; Queries – types, creating, wizards – Reports – creating and layout. | | | | | | | 6 | | | C3 | | |
| IV | Cloud based apps – Google Drive, Google Sheets, Google Docs, | | | | | | | 6 | | | C4 | | |
| V | Cloud based apps - Google Forms, Google Slides – Google Cloud Print | | | | | | | 6 | | | C5 | | |
|  | **Total** | | | | | | | **30** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Have awareness and understanding on the basic functions of MS Excel | | | | | | | PO4, PO6, PO7 | | | | | |
| **CO2** | Know the advanced functions of MS Excel | | | | | | | PO4, PO6, PO7 | | | | | |
| **CO3** | Possess knowledge on MS Access and its application in database management | | | | | | | PO2, PO4, PO6, PO7 | | | | | |
| **CO4** | Understand and possess knowledge on the functions and usage of various cloud based apps like Google Drive, Google Sheets and Google Docs | | | | | | | PO4, PO5, PO6, PO7 | | | | | |
| **CO5** | Understand and be aware of the functions and usage of Cloud based apps like Google Forms, Google Slides and Google Cloud Printing. | | | | | | | PO4, PO6, PO7 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | Humphrey M.L., Excel For Beginners, Kindle Edition, 2017 | | | | | | | | | | | | |
| 2. | Richard Rost, Learning MS Access Kindle Edition, 2013 | | | | | | | | | | | | |
| 3. | Sachin Srivastava, Google Cloud Platform, Kindle Edition, 2021 | | | | | | | | | | | | |
| 4. | Valarie Lestourgeon, A Beginner’s Guide to GCP, Kindle Edition, 2021 | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Gonda, C. M. (2016) Master of Business Etiquette: The Ultimate Guide to Corporate Etiquette and Soft Skills Embassy Books, First Edition. | | | | | | | | | | | | |
| 2. | Mehra, S. K. (2012) Business Etiquette A Guide For The Indian Professional. Noula: HarperCollins | | | | | | | | | | | | |
| 3. | Pachter, B. (2013). The Essentials of Business Etiquette: How to Greet, Eat, and Tweet Your Way to Success (1) edition New York: McGraw-Hill Education. | | | | | | | | | | | | |
| 4. | Past, K. (2008). Indian Business Etiquette: 1 (First edition). Ahmedabad Jaico Publishing House. | | | | | | | | | | | | |
| 5. | Travis, R. (2013). Tech Eliquette: OMG, 2 Edition, RLT Publishing. | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** |  |  |  | 3 |  | 3 | 3 |  |
| **CO 2** |  |  |  | 3 |  | 3 | 3 |  |
| **CO 3** |  | 3 |  | 3 | 3 | 3 | 3 |  |
| **CO 4** |  |  |  | 3 | 3 | 3 | 3 |  |
| **CO 5** |  |  |  | 3 |  | 3 | 3 |  |

**3-Strong 2-Medium 1-Low**

**SEMESTER III**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Information Systems for Business** | Core | 4 | - | - | - | 4 | | 45 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To enable students to understand the fundamentals of information system and its role of information in managerial decision making | | | | | | | | | | | | |
| C2 | To throw light on fundamentals of information systems like TPS, DSS, and EIS. | | | | | | | | | | | | |
| C3 | To manage system applications and data to best support functional areas of business | | | | | | | | | | | | |
| C4 | To provide insights in securely managing database and information using the process of | | | | | | | | | | | | |
| C5 | To elucidate the need and importance of ERP, its selection and implementation in workplace | | | | | | | | | | | | |
| **SYLLABUS** | | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | Introduction to information system**-**The management, structure and activities- Information needs and sources-Types of management decisions and information need. System classification Elements of system, input, output, process and feedback. | | | | | | | 12 | | | C1 | | |
| II | Transaction Processing information system, Office Automation System (OAS) - Knowledge workers System(KWS); MIS; Information system for managers, Intelligence information system –Decision support system-Executive information systems. | | | | | | | 12 | | | C2 | | |
| III | Functional Management Information System: Production / Operations Information system, Marketing Information Systems, Accounting Information system, Financial Information system, Human resource Information system. | | | | | | | 12 | | | C3 | | |
| IV | System Analysis and Design: The work of a system analyst- SDLC-System design – AGILE Model – Waterfall Model – Spiral Model – Iterative and Incremental Model - RAD Model - Requirement analysis-Data flow diagram, relationship diagram, design- Implementation-Evaluation and maintenance of MIS, Database System: Overview of Database- Components-advantages and disadvantages of database; Data Warehousing and Data Mining; Business Intelligence; Artificial Intelligence; Expert System; Big Data; Cyber Safety and Security- Cryptography; RSA Model of Encryption; Data Science - Block Chain Technology; E-commerce and E-Business models; IOT - RFID. | | | | | | | 12 | | | C4 | | |
| V | Enterprise Resource Planning (ERP) System, Benefits of the ERP, ERP how different from conventional packages , Need for ERP , ERP components , Selection of ERP Package, ERP implementation, Customer Relationship management. Organisation & Types, Decision Making, Data & information, Characteristics & Classification of information, Cost & value of information, various channels of information and MIS; Information system audit and control – E-Governance. | | | | | | | 12 | | | C5 | | |
|  | **Total** | | | | | | | **60** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Learn the importance of data and information in managerial decision making. | | | | | | | PO1, PO2, PO6 | | | | | |
| **CO2** | Possess on the various IS and the its relevance to Organizational environment | | | | | | | PO3, PO5, PO8, | | | | | |
| **CO3** | Understand the application of IS on the various functions like Accounting, Finance, Marketing, Operations and HR | | | | | | | PO1, PO3, PO5, PO8 | | | | | |
| **CO4** | To study the various models and new technologies | | | | | | | PO1, PO2, PO6, PO7 | | | | | |
| **CO5** | Be exposed on the importance of selecting the appropriate ERP and its implementation | | | | | | | PO1, PO2, PO5, PO8 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | Information Systems for Business and Beyond – opentextbooks.site. | | | | | | | | | | | | |
| 2. | Management Information Systems: Managing the Digital firm – www.textbooks.com | | | | | | | | | | | | |
| 3. | Information systems Journal – Wiley Online Library. | | | | | | | | | | | | |
| 4. | Information Systems management in Business and development organisations – Harekrishna Misra – PHI Learning. | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Azam, M., Management Information System, McGrawHill Education, 2012 | | | | | | | | | | | | |
| 2. | Laudon, K., Laudon, J. and Dass, R., Management Information Systems – Managing the Digital Firm, 11th Edition, Pearson, 2010. | | | | | | | | | | | | |
| 3. | Murdick, R.G., Ross, J.E. and Claggett, J.R., Information Systems for Modern Management, 3rd Edition, PHI, 2011. | | | | | | | | | | | | |
| 4. | O’Brien, J.A., Morakas, G.M. and Behl, R., Management Information Systems, 9th Edition, Tata McGraw-Hill Education, 2009. | | | | | | | | | | | | |
| 5. | Saunders, C.S. and Pearson, K.E., Managing and Using Information Systems, 3rd Edition, Wiley India Pvt. Ltd., 2009. | | | | | | | | | | | | |
| 6. | Stair, R. and Reynolds, G., Information Systems, 10th Edition, Cengage Learning,2012. | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** | 3 | 2 |  |  |  | 3 |  |  |
| **CO 2** |  |  | 3 |  | 3 |  |  | 3 |
| **CO 3** | 2 |  | 3 |  | 2 |  |  | 3 |
| **CO 4** | 3 | 3 |  |  |  | 2 | 3 |  |
| **CO 5** | 3 | 2 |  |  | 2 |  |  | 3 |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **EMPLOYABILITY SKILLS** | Extra Disciplinary | 3 | - | - | - | 3 | | 45 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To learn about the employability skills | | | | | | | | | | | | |
| C2 | To understand dimensions of task oriented skills | | | | | | | | | | | | |
| C3 | To study on critical problem-solving techniques | | | | | | | | | | | | |
| C4 | To develop employability skills | | | | | | | | | | | | |
| C5 | To understand the logical and reasoning skills | | | | | | | | | | | | |
| **SYLLABUS** | | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | **INTRODUCTION TO EMPLOYABILITY SKILLS**  Meaning – Definition – Hard skills and soft  skills –Employability skills and vocational skills – Employability and employment –  Employability attributes. | | | | | | | 9 | | | C1 | | |
| II | **UNPACKING EMPLOYABILITY SKILLS**  Embedded employability skills – Dimensions of  competency – Task skills –Task Management skills – Contingency Management skills –  Job/Role Environment skills. | | | | | | | 9 | | | C2 | | |
| III | **INTER – RELATIONSHIPS OF EMPLOYABILITY SKILLS**  Communication – Team work –  Problem solving – Initiative and Enterprise – Planning and Organizing – Self management –  Learning – Technology. | | | | | | | 9 | | | C3 | | |
| IV | **RESUME WRITING**  Meaning – Features of good resume – Model (Exercise). Etiquettes – Dress, Cleanliness, Etiquettes to be followed inside the employment seeking process. | | | | | | | 9 | | | C4 | | |
| V | **Arithmetic and Logical Reasoning Skills – Exercise.** | | | | | | | 9 | | | C5 | | |
|  | **Total** | | | | | | | **45** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | | | | | | |
| **CO1** | Acquire employability skills | | | | | | | PO4, PO6, PO7 | | | | | |
| **CO2** | understand dimensions of task oriented skills | | | | | | | PO4, PO6, PO7 | | | | | |
| **CO3** | study on critical problem-solving techniques | | | | | | | PO4, PO6, PO7 | | | | | |
| **CO4** | develop employability skills | | | | | | | PO4, PO6, PO7 | | | | | |
| **CO5** | understand the logical and reasoning skills | | | | | | | PO4, PO6, PO7 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | <https://www.jobjumpstart.gov.au/article/what-are-employability-skills> | | | | | | | | | | | | |
| 2. | <https://www.simplilearn.com/why-are-employability-skills-important-article> | | | | | | | | | | | | |
| 3. | <https://blog.hubspot.com/marketing/employability-skills> | | | | | | | | | | | | |
| 4. | <https://www.indeed.com/career-advice/finding-a-job/employability-skills> | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Soft Skills, Dr. K. Alex | | | | | | | | | | | | |
| 2. | Winning Interview Skills, Complied & Edited by J.K. Chopra. | | | | | | | | | | | | |
| 3. | A Modern Approach to Verbal and Non- Verbal Reasoning, R. S. Aggarwal. | | | | | | | | | | | | |
| 4. | Fafinski, S., Finch, E. (2014). Employability Skills for Law Students. United Kingdom: OUP Oxford. | | | | | | | | | | | | |
| 5. | Trought, F. (2017). Brilliant Employability Skills: How to Stand Out from the Crowd in the Graduate Job Market. United Kingdom: Pearson Education Limited. | | | | | | | | | | | | |
| 6. | Chaita, M. V. (2016). Developing Graduate Employability Skills: Your Pathway to Employment. United States: Universal Publishers. | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** |  |  |  | 3 |  | 3 |  |  |
| **CO 2** |  |  |  | 3 |  | 3 |  |  |
| **CO 3** |  | 2 |  | 3 |  | 3 |  |  |
| **CO 4** |  |  |  | 3 | 2 | 3 | 1 |  |
| **CO 5** |  |  |  | 3 |  | 3 |  |  |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Soft Skills IV – Leadership & Team Building Skills** | Soft Skills | - | - | 2 | - | 2 | | 30 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To understand the characteristics, style, traits of leaders, and theories of leadership. | | | | | | | | | | | | |
| C2 | To learn more about self-leadership and developing team-building skills through case studies and examples. | | | | | | | | | | | | |
| C3 | To understand how to form, manage and lead the team. | | | | | | | | | | | | |
| C4 | To understand the measures of conflict in a team | | | | | | | | | | | | |
| C5 | To explore team roles & processes in developing and managing a team | | | | | | | | | | | | |
| **SYLLABUS** | | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | **Leadership Theories:** Nature of leadership theories & models of leadership - attributes of effective leaders - traits of leadership - interpersonal competence & leadership | | | | | | | 6 | | | C1 | | |
| II | **Leadership Styles:** Leadership qualities -styles of leadership -attitudes-role models & new leadership - cultural differences and diversity in leadership - leader behaviour leadership in different countries- leadership ethics & social responsibility. | | | | | | | 6 | | | C2 | | |
| III | **Leadership Skills:** Leadership skills - Leadership & management - transactional & transformational in leadership -Strength based leadership in practice - Tasks & Relationship approach in leadership - influence tactics of leaders- motivation and coaching skills. Establishing constructive climate- listening to out group members- communication and conflict resolution skills. | | | | | | | 6 | | | C3 | | |
| IV | **Team Work:** Working in group & teams - characteristics of effective team- types- team development: Tuckman's team development stages- Belbin team roles - Ginnett - team effectiveness leadership model. | | | | | | | 6 | | | C4 | | |
| V | **Exploring team roles & processes:** mapping the stages of group development -Building: and developing teams-overcoming resistance coping and conflict and Ego-leading a team managing meetings. | | | | | | | 6 | | | C5 | | |
|  | **Total** | | | | | | | **30** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Critical understanding of theories and concepts of leadership and teamwork in organizations | | | | | | | PO4, PO5, PO6, PO7 | | | | | |
| **CO2** | Critical awareness of the importance of teamwork and development of the skills for building effective teams | | | | | | | PO4, PO5, PO6, PO7 | | | | | |
| **CO3** | Understanding of the techniques and practical understanding of how to apply theories and concepts to improve leadership skills. | | | | | | | PO2, PO4, PO5, PO6, PO7 | | | | | |
| **CO4** | Development of skills in effective leadership and professional communication | | | | | | | PO4, PO5, PO6, PO7 | | | | | |
| **CO5** | Demonstrate effective written communication skills for plans, strategies and outcomes. | | | | | | | PO4, PO6, PO7 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | Uday Kumar Haldar, Leadership and Team Building, | | | | | | | | | | | | |
| 2. | D.K. Tripathy, Team Building and Leadership with Texts and Cases, Himalaya Publishing House, 2014 | | | | | | | | | | | | |
| 3. | International Journal on Leadership, Publishing India Group | | | | | | | | | | | | |
| 4. | International Journal of Organizational Leadership, CIKD | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Gonda, C. M. (2016) Master of Business Etiquette: The Ultimate Guide to Corporate Etiquette and Soft Skills Embassy Books, First Edition. | | | | | | | | | | | | |
| 2. | Mehra, S. K. (2012) Business Etiquette A Guide For The Indian Professional. Noula: HarperCollins | | | | | | | | | | | | |
| 3. | Pachter, B. (2013). The Essentials of Business Etiquette: How to Greet, Eat, and Tweet Your Way to Success (1) edition New York: McGraw-Hill Education. | | | | | | | | | | | | |
| 4. | Past, K. (2008). Indian Business Etiquette: 1 (First edition). Ahmedabad Jaico Publishing House. | | | | | | | | | | | | |
| 5. | Travis, R. (2013). Tech Eliquette: OMG, 2 Edition, RLT Publishing. | | | | | | | | | | | | |
| 6. | Gonda, C. M. (2016) Master of Business Etiquette: The Ultimate Guide to Corporate Etiquette and Soft Skills Embassy Books, First Edition. | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** |  |  |  | 3 | 3 | 3 | 3 |  |
| **CO 2** |  |  |  | 3 | 3 | 3 | 3 |  |
| **CO 3** |  | 3 |  | 3 | 3 | 3 | 3 |  |
| **CO 4** |  |  |  | 3 | 3 | 3 | 3 |  |
| **CO 5** |  |  |  | 3 |  | 3 | 3 |  |

**3-Strong 2-Medium 1-Low**

**SPECIALIZATION COURSES: DISASTER MANAGEMENT**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Basics of Disaster Management** | Elective | 3 | - | - | - | 3 | | 45 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To familiarize the students on the basic concepts of disaster management | | | | | | | | | | | | |
| C2 | To create awareness on types of natural disasters | | | | | | | | | | | | |
| C3 | To throw light on manmade disasters and provide relevant case studies | | | | | | | | | | | | |
| C4 | To elucidate on risk disaster and vulnerability | | | | | | | | | | | | |
| C5 | To provide insights on approaches on measuring risk disaster and vulnerability | | | | | | | | | | | | |
|  | **SYLLABUS** | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | **Introduction:** Concepts and definitions- Disaster, Hazard, Vulnerability, Resilience and Risks. Disaster management: Meaning, Nature, Importance, Dimensions & Scope- Disaster Management Cycle. | | | | | | | 9 | | | C1 | | |
| II | **Natural disasters:** Natural Disasters- Meaning and nature of natural disasters, their types and effects. Hydrological Disasters - Floods, Droughts, Cloud bursts. Geological Disasters- Earthquakes, Tsunamis, Landslides, Volcanic eruptions. Wind related- Cyclones, Storms, Storm surges, Tidal waves, Heat and cold Waves. Climate change- Global warming- Sea level rise- Ozone Depletion. Case studies: Floods- Chennai floods 2015, Kerala floods 2018. Cyclones – Odisha 1999, Gaja 2018. Famines and drought- Great Bengal famine in the year of 1876-1878 and 1943, Maharashtra drought 2013.Earthquake- Nepal 2015, Gujarat, Bhuj 2001. Tsunami- Indian Ocean Tsunami2004. | | | | | | | 9 | | | C2 | | |
| III | **Man-made disasters:** CBRN – Chemical disasters, biological disasters, radiological disasters, nuclear disasters. Fire – building fire, coal fire, forest fire, Oil fire. Pollution - air pollution, water pollution. Deforestation, Industrial waste, Desertification, Mine and Quarries. Soil erosion, groundwater depletion, saltwater intrusion, biodiversity loss and biological warfare. Case studies: Kumbakonam School fire 2004, The Bhopal Gas Tragedy 1984, Fukushima Daiichi nuclear disaster, Japan 2011. Biological disasters – Swine flu 2009.War- Atomic bombings of Hiroshima and Nagasaki1945. | | | | | | | 9 | | | C3 | | |
| IV | **Disaster risk and vulnerability**- vulnerability as a cause and consequence of disasters, components of vulnerability, vulnerability poverty and development, links to development perspectives: Sen’s work on famine and entitlements | | | | | | | 9 | | | C4 | | |
| V | **Disaster Risk and vulnerability assessment approaches:** approaches and methods to measuring disaster risk and vulnerability- qualitative and quantitative methods. Indicators of disaster risk and vulnerability. | | | | | | | 9 | | | C5 | | |
|  | **Total** | | | | | | | **45** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Possess knowledge of the basic concepts of disaster management | | | | | | | PO1, PO2, PO3 | | | | | |
| **CO2** | To create awareness of types of natural disasters | | | | | | | PO1, PO2, PO3 | | | | | |
| **CO3** | Learn and understand the various scenarios of manmade disasters | | | | | | | PO1, PO2, PO5, PO8 | | | | | |
| **CO4** | Have a better understanding on risk disaster and vulnerability | | | | | | | PO1, PO2, PO8 | | | | | |
| **CO5** | Have insights on approaches on measuring risk disaster and vulnerability | | | | | | | PO1, PO2, PO3, PO8 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | Disasters – Wiley Online Library | | | | | | | | | | | | |
| 2. | Disaster Management - A Disaster Manager’s Handbook, W. Nick Carter, Asian Development Bank | | | | | | | | | | | | |
| 3. | [International Journal of Disaster Risk Science](https://www.springer.com/journal/13753/), Springer | | | | | | | | | | | | |
| 4. | Disaster Prevention and Management, Emerald | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Alexander, D., & Alexander, D. E., Confronting catastrophe: new perspectives on natural disasters. USA: Oxford University Press, 2000 | | | | | | | | | | | | |
| 2. | Andharia, J, Vulnerability and disasters: Conceptual contours of a people-centred view. In: S. Parasuraman & Unni Krishnan (ed.) India Disaster Report II: Redefining Disasters. Delhi: Oxford University Press, 2013 | | | | | | | | | | | | |
| 3. | Blaikie, P., Cannon, T., Davis, I., & Wisner, B., At risk: natural hazards, people's vulnerability and disasters. Routledge, 2014 | | | | | | | | | | | | |
| 4. | Edward A. Keller and Robert. H. Blodgett, Natural Hazards. Pearson Prentice Hall.USA, 2008 | | | | | | | | | | | | |
| 5. | Goel. S.L, Disaster Administration and Management, New Delhi: Deep & Deep publication, 2007 | | | | | | | | | | | | |
| 6. | Gupta Anil K, Sreeja S. Nair, Environmental Knowledge for Disaster Risk Management, New Delhi: National Institute of Disaster Management, 2011 | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** | 3 | 3 | 2 |  |  |  |  |  |
| **CO 2** | 3 | 3 | 3 |  |  |  |  |  |
| **CO 3** | 2 | 3 |  |  | 3 |  |  | 3 |
| **CO 4** | 3 | 2 |  |  |  |  |  | 2 |
| **CO 5** | 2 | 3 | 3 |  |  |  |  | 3 |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Disaster Risk Governance** | Elective | 3 | - | - | - | 3 | | 45 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To provide insights on theories of disaster governance | | | | | | | | | | | | |
| C2 | To throw light on disaster governance institutions and networks at multiple scales | | | | | | | | | | | | |
| C3 | To familiarize on policy and institutional arrangements for disaster management in India | | | | | | | | | | | | |
| C4 | To create awareness on role of NGO and community in disaster management | | | | | | | | | | | | |
| C5 | To elucidate on policy and institutional arrangements for disaster management | | | | | | | | | | | | |
|  | **SYLLABUS** | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | **Understanding Institutions and governance**- Theories and Concepts of Governance- Defining disaster governance- Application of the concept of governance to disaster and risk. Factors affecting  disaster governance. | | | | | | | 9 | | | C1 | | |
| II | **Disaster governance institutions and networks at multiple scales (international, national and reginal and local scales):** United Nations International Strategy for Disaster Reduction (UNISDR), Hyogo Framework for Action (HFA) 2005, Sendai Framework 2015. Disaster Management Framework. | | | | | | | 9 | | | C2 | | |
| III | **Policy and institutional arrangements for disaster management in India**– Disaster Management Act 2005; National Policy on Disaster Management 2009; Disaster Management Authority responsibilities of government. Important statutes with provisions relevant to Disaster Management | | | | | | | 9 | | | C3 | | |
| IV | Role of NGO coordination and community processes in disaster management. Governance challenges in the context of disasters. | | | | | | | 9 | | | C4 | | |
| V | Policy and institutional arrangements for disaster management in Tamil Nadu- disaster management authority at state, district and local level. | | | | | | | 9 | | | C5 | | |
|  | **Total** | | | | | | | **45** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Have insights on theories of disaster governance | | | | | | | PO2, PO3, PO4 | | | | | |
| **CO2** | Possess knowledge on disaster governance institutions and networks at multiple scales | | | | | | | PO1, PO2, P04, P05 | | | | | |
| **CO3** | Learn and understand policy and institutional arrangements for disaster management in India | | | | | | | PO1, PO2, PO4, PO6 | | | | | |
| **CO4** | Aware on role of NGO and community in disaster management | | | | | | | PO1, PO2, PO4, PO6, PO8 | | | | | |
| **CO5** | Have better understanding on policy and institutional arrangements for disaster management | | | | | | | PO1, PO2, PO4, PO6, PO7, PO8 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | [International Journal of Disaster Risk Science](https://www.springer.com/journal/13753/), Springer | | | | | | | | | | | | |
| 2. | [International Journal of Disaster Risk Reduction](https://www.sciencedirect.com/journal/international-journal-of-disaster-risk-reduction), Elsevier | | | | | | | | | | | | |
| 3. | Disaster Prevention and Management, Emerald | | | | | | | | | | | | |
| 4. | International Journal of Geo-Information, MDPI | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Alemanno, A. (Ed.), Governing disasters: the challenges of emergency risk regulation. Edward Elgar Publishing, 2011 | | | | | | | | | | | | |
| 2. | Chakrabarty, B., & Bhattacharya, M. (Eds.), The governance discourse: a reader, USA: Oxford University Press, 2008 | | | | | | | | | | | | |
| 3. | Chatterjee, P, The politics of the governed: reflections on popular politics in most of the world. Columbia University Press, 2004 | | | | | | | | | | | | |
| 4. | Kundu, A., & Dubey, M. (Eds.), India, Social Development Report USA: Oxford University Press, 2006 | | | | | | | | | | | | |
| 5. | North, D, Institutions, institutional change and economic performance, New York: Cambridge University Press, 1990 | | | | | | | | | | | | |
| 6. | Ostrom, E, A Polycentric Approach for Coping with Climate Change. Background Paper to the 2010 World Development Report (Policy  Research Working Paper 5095, 2010 | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** |  | 3 | 3 | 2 |  |  |  |  |
| **CO 2** | 3 | 2 |  | 3 | 3 |  |  |  |
| **CO 3** | 2 | 3 |  | 3 |  | 2 |  |  |
| **CO 4** | 3 | 3 |  | 2 |  | 3 |  | 2 |
| **CO 5** | 3 | 2 |  | 3 |  | 3 | 2 | 3 |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Disaster Preparedness and Decision Making** | Elective | 3 | - | - | - | 3 | | 45 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To familiarize the students on disaster principles and preparedness | | | | | | | | | | | | |
| C2 | To provide insights on disaster planning and emergency service systems | | | | | | | | | | | | |
| C3 | To throw light on conceptual and applied Issues in emergency management | | | | | | | | | | | | |
| C4 | To elucidate on principles of natural hazard reduction, toxicology and biohazards in emergency management | | | | | | | | | | | | |
| C5 | To create awareness on terrorism preparedness and community relations | | | | | | | | | | | | |
|  | **SYLLABUS** | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | **Global Disaster:** Science and Policy, Institutional framework for disaster preparedness and mitigation- Global and Indian scenario, Managing natural and anthropogenic disasters , risk assessment and analysis, Principles and Practice of disaster response operations and management , Disaster Planning , Public Administration/Policy and Emergency Management,, Incident Command Centre, Training Need Analysis and Human Resource Development Plan, corporate/public agency coordination, the human element in preparedness planning , Current trends in disaster preparedness. | | | | | | | 9 | | | C1 | | |
| II | **Hazard monitoring, tracking and modeling, Early warning systems, warning protocols,India Disaster Resource Network, Environmental Hazards, public health aspects of disaster management and emergency** **services systems, urban hazards and disasters:** an introduction to disaster planning, fire services preparedness , Emergency Sanitation/Shelter environments . | | | | | | | 9 | | | C2 | | |
| III | **Conceptual and Applied Issues in Emergency Management:** Operational decision making, Introduction to Emergency Management and planning, organization and structure for Emergency Management , Emergency Management research - Methods/Analysis , Public Information for Emergency Management, Principles and Practice of Disaster Relief and Recovery , Logistic support system, Computer Applications in Emergency Management . | | | | | | | 9 | | | C3 | | |
| IV | **Principles of natural hazard reduction, Toxicology and Biohazards in Emergency Management:** Critical Infrastructure and Emergency Management ,Emergency Preparedness, Response, and Planning for Hazardous Materials,,Contingency Planning, Contingency Planning for Business and Industry, International Disasters. | | | | | | | 9 | | | C4 | | |
| V | **Terrorism Preparedness and Community Relations:** Emergency Management for Terrorism, WMD, and other contemporary Issues, Incident Management Systems and Emergency Operations Center, Community Emergency Response Team, Community Relations for Environmental and Emergency Managers , | | | | | | | 9 | | | C5 | | |
|  | **Total** | | | | | | | **45** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Possess the knowledge on disaster principles and preparedness | | | | | | | PO1, PO2, PO4 | | | | | |
| **CO2** | Have insights on disaster planning and emergency service systems | | | | | | | PO1, PO2, PO4, P08 | | | | | |
| **CO3** | Learn about conceptual and applied Issues in emergency management | | | | | | | PO1, PO2, PO4, P08 | | | | | |
| **CO4** | Possess knowledge on principles of natural hazard reduction, toxicology and biohazards in emergency management | | | | | | | PO1, PO2, PO4, PO6, P08 | | | | | |
| **CO5** | Have a better understanding on terrorism preparedness and community relations | | | | | | | PO1, PO2, PO4, PO5, P08 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | Difficult Decisions in Disaster Risk and Environmental Management – Special Issue – MDPI | | | | | | | | | | | | |
| 2. | Decision Support Systems for Disaster Management – JSTOR | | | | | | | | | | | | |
| 3. | Journal of Natural Disaster Science, J-Stage | | | | | | | | | | | | |
| 4. | Disasters – Wiley Online Library | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Goel S.L. and Kumar Ram, Disaster Management, Deep and Deep Publications, 2001 | | | | | | | | | | | | |
| 2. | Parasuraman S., India Disasters Report: Towards a Policy Initiatives, Oxford University Press, 2004 | | | | | | | | | | | | |
| 3. | Collins Larry R. and Schneid Thomas D., Disaster Management and Preparedness Taylor and Francis 2000 | | | | | | | | | | | | |
| 4. | Living With Risk: A global Review Of Disaster Reduction Initiatives 2004 Vision, United Nations, 2004. | | | | | | | | | | | | |
| 5. | Arnold, Margaret and Kreimer, Alcira (eds.), “Managing Disaster Risk in Emerging Economies", Disaster Risk Management Series No. 2, World Bank, Washington, D.C., 2000. | | | | | | | | | | | | |
| 6. | Nidhi Gauba Dhawan, Ambrina Sardar Khan - Disaster Management And Preparedness–,CBS Publishers & Distributors,–2012 | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** | 2 | 3 |  | 3 |  |  |  |  |
| **CO 2** | 3 | 2 |  | 2 |  |  |  | 3 |
| **CO 3** | 3 | 3 |  | 3 |  |  |  | 2 |
| **CO 4** | 3 | 2 |  | 3 |  | 3 |  | 2 |
| **CO 5** | 2 | 3 |  | 2 | 3 |  |  | 3 |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Ecosystems and Habitat** | Elective | 3 | - | - | - | 3 | | 45 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To provide insights into ecosystems and habitats | | | | | | | | | | | | |
| C2 | To throw light on aquatic ecosystem and habitat | | | | | | | | | | | | |
| C3 | To familiarize on the types of terrestrial ecosystems | | | | | | | | | | | | |
| C4 | To create awareness of nature conservation Acts in India | | | | | | | | | | | | |
| C5 | To elucidate on Conservation vs. livelihood. | | | | | | | | | | | | |
|  | **SYLLABUS** | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | **Introduction to ecosystems and habitats**- definition, classification, similarities and differences. Introduction to Ecology - cycling of materials; water, carbon, nitrogen and phosphorus. Trophic pyramids and food webs; Alterations of ecosystem function: acid rain, nuclear winter, global warming and ozone hole, origin of life on earth; changes in earth’s Atmosphere. | | | | | | | 9 | | | C1 | | |
| II | **Aquatic ecosystem and habitats:** Introduction to – hydrosphere – hydro- cycle- aquatic systems- subdivisions – Freshwater (rivers and lakes) –Wetlands - Estuarine and marine ecosystems. | | | | | | | 9 | | | C2 | | |
| III | **Terrestrial Ecosystems:** Tropical forest types- Rain forests and monsoon forests semi-evergreen, deciduous forests, tropical dry evergreen forests and mangroves. Animal life: Richness, diversity and carrying capacity. Niches in the forests and their utilization by animals. | | | | | | | 9 | | | C3 | | |
| IV | **Nature conservation in India:** Legal measures- Brief history of forest conservation in India; Forest Rights Act 2006, Wildlife Protection Act 1972, Environmental Protection Act 1986, Convention on International Trade in Endangered Species (CITES); Conservation vs. development: Costal Regulation Zone Notification (CRZ) 1991 and subsequent amendments, CRZ Notification 2011 and CRZ Notification 2019. | | | | | | | 9 | | | C4 | | |
| V | **Conservation vs. livelihood:** Sea Turtle Conservation in Odisha- Gahirmatha Marine Wildlife Santuary, Gulf of Mannar Marine National Park and Biosphere Reserve in Tamil Nadu, Mudumalai National Park and Wildlife Sanctuary. | | | | | | | 9 | | | C5 | | |
|  | **Total** | | | | | | | **45** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Have insights on ecosystems and habitats | | | | | | | PO2, PO8 | | | | | |
| **CO2** | Possess knowledge on aquatic ecosystem and habitat | | | | | | | PO2, PO5, PO8 | | | | | |
| **CO3** | Have better understanding on the types of terrestrial ecosystems | | | | | | | PO2, PO5, PO8 | | | | | |
| **CO4** | Have awareness of nature conservation Acts in India | | | | | | | PO2, PO3, PO4, PO8 | | | | | |
| **CO5** | Have better understanding on Conservation vs. livelihood. | | | | | | | PO2, PO3, PO4, PO8 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | Protection and Management of Species, Habitats, Ecosystems and Landscapes, Special Issue - MDPI | | | | | | | | | | | | |
| 2. | Ecosystems and People, Taylor & Francis | | | | | | | | | | | | |
| 3. | Frontiers in Ecology and the Environment - ESA | | | | | | | | | | | | |
| 4. | Journal of Ecology – British Ecological Society | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Singh, J.S., Singh, S.P and S. R. Gupta, Ecology, Environment and Resource Conservation, New Delhi: Anamaya Publications, 2006 | | | | | | | | | | | | |
| 2. | Krebs, C.J, Ecology: The Experimental Analysis of Distribution and Abundance, Benjamin Cummings Publications, 2008 | | | | | | | | | | | | |
| 3. | Miller. G.T, Environmental Science. Thomson, California. USA, 2004 | | | | | | | | | | | | |
| 4. | Mills, D.H, An Introduction to Freshwater Ecology, Edinburg: Liver & Boyd, 1972 | | | | | | | | | | | | |
| 5. | Russell K. Monson, Ecology and the Environment. New York: Springer Dordrecht, Heidelberg, 2014 | | | | | | | | | | | | |
| 6. | Chapman, J.L & M.J. Reiss, Ecology: Principles and Applications. Cambridge University Press. UK, 1998 | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** |  | 3 |  |  |  |  |  | 2 |
| **CO 2** |  | 2 |  |  | 3 |  |  | 3 |
| **CO 3** |  | 3 |  |  | 2 |  |  | 3 |
| **CO 4** |  | 3 | 3 | 3 |  |  |  | 2 |
| **CO 5** |  | 2 | 2 | 3 |  |  |  | 3 |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Environmental Economics and Management** | Elective | 3 | - | - | - | 3 | | 45 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To familiarize the students on economics and environment | | | | | | | | | | | | |
| C2 | To provide insights on environmental policies and Issues | | | | | | | | | | | | |
| C3 | To throw light on approaches to environmental valuation | | | | | | | | | | | | |
| C4 | To elucidate on common property resource management | | | | | | | | | | | | |
| C5 | To create awareness on environmental movements and environmentalism | | | | | | | | | | | | |
|  | **SYLLABUS** | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | **Introduction**: Economics and environment- Circular flow model; Material balance model. Sustainability-  meaning; different paradigms. | | | | | | | 9 | | | C1 | | |
| II | **Environmental Policies and Issues: Environmental Externalities** – public goods and private goods; Design of Environmental Policy– Quantity Based Instruments – Market based Instruments – Pigouvian tax and Subsidy Approach, Emission/effluent charges; Non-Market Instruments: Command and Control – Mixed Instruments – Marketable permits – Tradeable Pollution Permits -Bargaining Solution – Property rights and Coase Theorem. | | | | | | | 9 | | | C2 | | |
| III | **Approaches to Environmental Valuation**: Contingent Valuation Method, Travel Cost Method, Hedonic Pricing Method– Social Cost Benefit Analysis. | | | | | | | 9 | | | C3 | | |
| IV | **Common Property Resource (CPR) Management:** Tragedy of the Commons- Hardin; Governing the Commons- Elinor Ostrom; CPRs and Rural Poor in India. | | | | | | | 9 | | | C4 | | |
| V | **Environmental movements and environmentalism:** Environmentalism of the poor**.** Grass Root Movements- Chipko Movement, Save Silent Valley Movement, Narmada Bachao Andolan. | | | | | | | 9 | | | C5 | | |
|  | **Total** | | | | | | | **45** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Possess the knowledge on on economics and environment | | | | | | | PO2, PO8 | | | | | |
| **CO2** | Have insights on environmental policies and Issues | | | | | | | PO2, PO5, PO8 | | | | | |
| **CO3** | Possess knowledge on approaches to environmental valuation | | | | | | | PO2, PO5, PO8 | | | | | |
| **CO4** | Learn about common property resource management | | | | | | | PO2, PO3, PO4, PO8 | | | | | |
| **CO5** | Have better understanding on environmental movements and environmentalism | | | | | | | PO2, PO3, PO4, PO8 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | Journal of Environmental Economics and Management*,* Elsevier | | | | | | | | | | | | |
| 2. | Environmental Economics and Management, Frontiers | | | | | | | | | | | | |
| 3. | [Environmental and Resource Economics](https://www.springer.com/journal/10640/), Springer | | | | | | | | | | | | |
| 4. | [Review of Environmental Economics and Policy](https://www.journals.uchicago.edu/toc/reep/current), The University of Chicago Press Journals | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Baviskar, Amita, In the Belly of the River: Tribal Conflicts over Development in the Narmada Valley, New Delhi: Oxford University Press, 1995 | | | | | | | | | | | | |
| 2. | Callan & Thomas, Environmental Economics and Management: Theory, Policy and Applications, (6th ed.), Cengage Learning, 2013 | | | | | | | | | | | | |
| 3. | Hanley, Nick & Edward Barbier, Pricing Nature: Cost-Benefit Analysis and Environmental Policy. Edward Elgar, 2009 | | | | | | | | | | | | |
| 4. | Kolstad, Intermediate Environmental Economics (2nd ed.), London International: Oxford University Press, 2011 | | | | | | | | | | | | |
| 5. | Tietenberg, Tom & Lewis, Lynne, Environmental and Natural Resource Economics.Routledge. UK, 2011 | | | | | | | | | | | | |
| 6. | Venkatachalam L, Economic Valuation of Ecosystem Services: A Case Study of Ousteri wetland, Puducherry, Research Report submitted to GIZ MoEF, Madras Institute of Development Studies, Chennai, 2015 | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** |  | 3 |  |  |  |  |  | 2 |
| **CO 2** |  | 2 |  |  | 3 |  |  | 3 |
| **CO 3** |  | 3 |  |  | 2 |  |  | 3 |
| **CO 4** |  | 3 | 3 | 3 |  |  |  | 2 |
| **CO 5** |  | 2 | 2 | 3 |  |  |  | 3 |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Principles of Remote Sensing and GIS** | Elective | 3 | - | - | - | 3 | | 45 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To provide insights to the concepts and principles of remote sensing | | | | | | | | | | | | |
| C2 | To throw light on data acquisition types and characteristics | | | | | | | | | | | | |
| C3 | To familiarize on the satellite data products and their characteristics | | | | | | | | | | | | |
| C4 | To create awareness on GIS and development of GPS | | | | | | | | | | | | |
| C5 | To elucidate on GIS software and Geo-databases | | | | | | | | | | | | |
|  | **SYLLABUS** | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | **Introduction: Remote** **sensing** – definition, history & development, concept and principles, Cartography - General Cartography, Types of Maps, Technologies in cartography, Map composition. Concept of Electromagnetic Radiation (EMR) - EMR Spectrum and its properties, EMR wavelength regions and their applications, Atmospheric windows, Interaction of EMR with matter, Spectral signatures. | | | | | | | 9 | | | C1 | | |
| II | **Data Acquisition**: Platforms – types and their characteristics, Satellites and their characteristics – geo-stationary and sun-synchronous, Earth Resources Satellites -LANDSAT, SPOT, IRS, IKONOS satellite series, High Resolution Satellites- Geoeye; Cartosat. Meteorological satellites – INSAT, NOAA,GOES. | | | | | | | 9 | | | C2 | | |
| III | **Data analysis:** Satellite data products and their characteristics, Image processing, Data pre-processing, Atmospheric, Radiometric, Geometric corrections, Basic principles of visual interpretation, Equipment for visual  interpretation. | | | | | | | 9 | | | C3 | | |
| IV | **Basic Concepts:** mapping concepts, definition of GIS, Components of GIS, Variables - points, lines, polygon, Areas of GIS application, Advantage and Limitation of GIS, Spatial and attribute data. Global Positioning System (GPS)- Definition- Development of GPS, GPS – Satellite Systems, GPS Satellite Navigation System and their Segments, Applications of GPs. | | | | | | | 9 | | | C4 | | |
| V | **Data acquisition and analysis:** GIS Software, Open source GIS software, file organization and formats, Geo-database, Rectification, Digitization and map composition. | | | | | | | 9 | | | C5 | | |
|  | **Total** | | | | | | | **45** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Have insights to the concepts and principles of remote sensing | | | | | | | PO1, PO2, PO4 | | | | | |
| **CO2** | Possess knowledge on data acquisition types and characteristics | | | | | | | PO1, PO2, PO4 | | | | | |
| **CO3** | Have better understanding on the satellite data products and their characteristics | | | | | | | PO1, PO2, PO4, PO5 | | | | | |
| **CO4** | Learn about on GIS and development of GPS | | | | | | | PO1, PO2, PO4, PO5, PO6, PO7 | | | | | |
| **CO5** | Learn and understand GIS software and Geo-databases | | | | | | | PO1, PO2, PO4, PO5, PO6, PO8 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | Journal of Remote Sensing & GIS, Walsh Medical Media | | | | | | | | | | | | |
| 2. | Journal of Remote Sensing GIS & Technology, MAT Journals | | | | | | | | | | | | |
| 3. | Remote Sensing, MDPI | | | | | | | | | | | | |
| 4. | Transactions on Geoscience & Remote Sensing, IEEE | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Drury, S.A., Image Interpretation in Geology, UK: Allen and Unwin, 1987 | | | | | | | | | | | | |
| 2. | Gibson, P.J, Digital Image Processing. London: Routledge Publication, 2000 | | | | | | | | | | | | |
| 3. | Gupta, R.P, Remote Sensing Geology, Germany: Springer Verlag, 1990 | | | | | | | | | | | | |
| 4. | Joseph, G, Fundamentals of Remote Sensing, Hyderabad, India: Universities Press, 2004 | | | | | | | | | | | | |
| 5. | Campbell, J, Introduction to Remote Sensing, London: Taylor & Francis, 2002 | | | | | | | | | | | | |
| 6. | Anji Reddy, M, Textbook of Remote Sensing and Geographic  Information System, Hyderabad: B.S. Publication, 2008 | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** | 3 | 3 |  | 2 |  |  |  |  |
| **CO 2** | 3 | 2 |  | 3 |  |  |  |  |
| **CO 3** | 2 | 3 |  | 3 | 3 |  |  |  |
| **CO 4** | 3 | 2 |  | 2 | 3 | 3 | 3 |  |
| **CO 5** | 2 | 3 |  | 3 | 3 | 2 |  | 3 |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Crisis Management** | Elective | 3 | - | - | - | 3 | | 45 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To familiarize the students on disasters issues and crisis management | | | | | | | | | | | | |
| C2 | To provide insights on identifying potential crisis situations | | | | | | | | | | | | |
| C3 | To throw light on crisis management preparedness | | | | | | | | | | | | |
| C4 | To elucidate on disaster recovery planning | | | | | | | | | | | | |
| C5 | To create awareness on the importance of managing the economy and essential services in emergencies | | | | | | | | | | | | |
|  | **SYLLABUS** | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | Disasters Issues and Crisis Management: Definitions and Overview of risks and dangers, Impact of globalization on crisis and mass disasters. | | | | | | | 9 | | | C1 | | |
| II | Identifying Potential Crisis Situations: Discuss selected case studies to analyze the potential impact of disasters, Prepare a foundation of a sound crisis management plan. | | | | | | | 9 | | | C2 | | |
| III | Crisis Management Preparedness: Preparing the plan, Training and Testing, Crisis communication, Stress management, Crisis operation guidelines. | | | | | | | 9 | | | C3 | | |
| IV | The Disaster Recovery Planning: Emergency management teams, National and International disaster recovery policies, | | | | | | | 9 | | | C4 | | |
| V | Managing the economy and essential services in emergencies, Managing the media and popular conscience. | | | | | | | 9 | | | C5 | | |
|  | **Total** | | | | | | | **45** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Possess knowledge on disasters issues and crisis management | | | | | | | PO1, PO2, PO4 | | | | | |
| **CO2** | Have insights on identifying potential crisis situations | | | | | | | PO1, PO2, PO4, P08 | | | | | |
| **CO3** | Possess knowledge on crisis management preparedness | | | | | | | PO1, PO2, PO4, P08 | | | | | |
| **CO4** | Learn about disaster recovery planning | | | | | | | PO1, PO2, PO4, PO6, P08 | | | | | |
| **CO5** | Have better understanding on managing the economy and essential services in emergencies | | | | | | | PO1, PO2, PO4, PO5, P08 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | Journal of Contingencies and Crisis Management, Wiley Online Library | | | | | | | | | | | | |
| 2. | Crisis Response Journal, CRJ | | | | | | | | | | | | |
| 3. | International Journal of Crisis Response and Management, IGI Global | | | | | | | | | | | | |
| 4. | Disaster Recovery Journal, DRJ | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Mutchopadhyaya, A.K, Crisis and disaster management tuberlance and aftermath”, Newage International Publications, New Delhi, 2005 | | | | | | | | | | | | |
| 2. | Manager's Guide to Crisis Management, Jonathan Bernstein, Briefcase Books, 2011 | | | | | | | | | | | | |
| 3. | Crisis Management - Resilience and Change, [Sarah Kovoor-Misra](https://us.sagepub.com/en-us/nam/author/sarah-kovoor-misra-president), Sage Publications, 2019 | | | | | | | | | | | | |
| 4. | Crisis Management - Master the Skills to Prevent Disasters – Harvard Business Press, 2004 | | | | | | | | | | | | |
| 5. | Crisis Management: How to develop a powerful program, Regina Phelps, 2018 | | | | | | | | | | | | |
| 6. | Crisis Management - Planning for the Inevitable – Steven Fink, Backinprint.com, 2000 | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** | 2 | 3 |  | 3 |  |  |  |  |
| **CO 2** | 3 | 2 |  | 2 |  |  |  | 3 |
| **CO 3** | 3 | 3 |  | 3 |  |  |  | 2 |
| **CO 4** | 3 | 2 |  | 3 |  | 3 |  | 2 |
| **CO 5** | 2 | 3 |  | 2 | 3 |  |  | 3 |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Geology and Meteorology** | Elective | 3 | - | - | - | 3 | | 45 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To provide insights into geology and its sub-divisions | | | | | | | | | | | | |
| C2 | To throw light on rock formation and types of rocks | | | | | | | | | | | | |
| C3 | To familiarize on types of volcanos and earthquakes | | | | | | | | | | | | |
| C4 | To create awareness on the importance of structural geology | | | | | | | | | | | | |
| C5 | To elucidate on objectives of meteorology | | | | | | | | | | | | |
|  | **SYLLABUS** | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | **Geology** – Introduction, sub-divisions and relations to other branches of science, Earth, Origin, age, major surface features, continents, ocean basins and there evaluation. | | | | | | | 9 | | | C1 | | |
| II | Rock formation, types of rock, and Geological actions by rivers, wints and glaciers and their associated land forms. | | | | | | | 9 | | | C2 | | |
| III | Types and distribution of Volcano's, causes of earth quacks, earth quack belt, zones of earthquakes, seismic wave study, earth internal constitution | | | | | | | 9 | | | C3 | | |
| IV | **Structural geology:** Definition and scope of structural Geology: primary and secondary Structure; Concept of non-diastrophic and diastrophic structure; Concept of stress and strain; Mohr’s stress circle; Diastrophic structure: planer and linear structure; Basic concept of lineation foliation fold faults and joints | | | | | | | 9 | | | C4 | | |
| V | **Meteorology:** Definition, and Scope, Aims and Objectives of Meteorology. Primary Meteorological Parameters and their Measurement—Temperature, Wind Direction and Wind Speed. Secondary Meteorological Parameters and their Measurement—Humidity, Relative Humidity, Absolute Humidity, Pressure and Solar Radiation. Collection and Analysis of Wind Data, Wind Roses, Plotting of Wind Roses and Pollution Roses. Effects of Meteorological Parameters on Air Pollution. | | | | | | | 9 | | | C5 | | |
|  | **Total** | | | | | | | **45** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Have insights into geology and its sub-divisions | | | | | | | PO2, PO8 | | | | | |
| **CO2** | Possess knowledge on rock formation and types of rocks | | | | | | | PO2, PO5, PO8 | | | | | |
| **CO3** | Learn about the types of volcanos and earthquakes | | | | | | | PO2, PO5, PO8 | | | | | |
| **CO4** | Have better understanding on structural geology | | | | | | | PO2, PO3, PO4, PO8 | | | | | |
| **CO5** | Learn and understand the objectives of meteorology | | | | | | | PO2, PO3, PO4, PO8 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | Geology and Meteorology, Nature | | | | | | | | | | | | |
| 2. | Geoscience Data Journal, Royal Meteorological Society | | | | | | | | | | | | |
| 3. | International Journal of Geography, Geology and Environment, AkiNik Publications | | | | | | | | | | | | |
| 4. | Journal of Geological Research, Open Access | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Berry,B.J.L. and Chorley, P.J. Atmosphre weather and climate, routledge, London and new york, 1993 | | | | | | | | | | | | |
| 2. | Critchfield , J.S. General climatology prentice Hall , India, 1993 | | | | | | | | | | | | |
| 3. | Peterson, Introduction to meteorology McGraw Hill Book London, 1969 | | | | | | | | | | | | |
| 4. | General Meteorology: H. R. Byers, Tata McGraw Hill Publications, New Delhi | | | | | | | | | | | | |
| 5. | General Meteorology: H. R. Byers (Tata Mc Grew – Hill Publications, New Delhi) | | | | | | | | | | | | |
| 6. | Meteorology: Dr. S.R. Gadekar, Agromate Publishers, Nagpur 2000 | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** |  | 3 |  |  |  |  |  | 2 |
| **CO 2** |  | 2 |  |  | 3 |  |  | 3 |
| **CO 3** |  | 3 |  |  |  |  |  | 3 |
| **CO 4** |  | 3 | 3 | 3 |  |  |  | 2 |
| **CO 5** |  | 2 | 2 | 3 |  |  |  | 3 |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Disaster Mitigation** | Elective | 3 | - | - | - | 3 | | 45 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To familiarize the students on understanding disaster risk and its implication for sustainable development | | | | | | | | | | | | |
| C2 | To provide insights on development planning along with the institutional framework | | | | | | | | | | | | |
| C3 | To throw light on prospective disaster risk management and sustainable development | | | | | | | | | | | | |
| C4 | To elucidate on mitigation strategies | | | | | | | | | | | | |
| C5 | To create awareness on the approaches to disaster risk reduction | | | | | | | | | | | | |
|  | **SYLLABUS** | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | **Understanding disaster risk and its implication for sustainable development:** Risk and linkages between social, economic and environmental vulnerabilities; Disaster risks in the rural/urban setting and trans-boundary contexts; Disaster risks and livelihood security | | | | | | | 9 | | | C1 | | |
| II | Development planning along with the institutional framework and processes involved in the context of village/ town/ city/ district/ state/ national planning; Planning in neoliberal framework and its critic; planning as driven by bilateral and multilateral agencies. | | | | | | | 9 | | | C2 | | |
| III | **Disaster risk**: Challenges and possibilities for development planning; Prospective disaster risk management and sustainable development; People Centre development and risk mitigation:  Social capital for DRR, Community led planning process, participatory planning. | | | | | | | 9 | | | C3 | | |
| IV | **Mitigation strategies**: Coping strategies- flood, famine, earthquake, drought, desertification. Food security and coping strategies. Livelihood, employment and coping strategies. | | | | | | | 9 | | | C4 | | |
| V | **Approaches to disaster risk reduction (DRR):** Mainstreaming DRR, Ecosystem and DRR, Flagship programmes and social protection schemes, Livelihood approaches to DRR and Key legislation relevant to DRR. | | | | | | | 9 | | | C5 | | |
|  | **Total** | | | | | | | **45** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Possess knowledge on understanding disaster risk and its implication for sustainable development | | | | | | | PO1, PO2, PO4 | | | | | |
| **CO2** | Have insights on development planning along with the institutional framework | | | | | | | PO1, PO2, PO4, P08 | | | | | |
| **CO3** | Learn and understand prospective disaster risk management and sustainable development | | | | | | | PO1, PO2, PO4, P08 | | | | | |
| **CO4** | Learn about on mitigation strategies | | | | | | | PO1, PO2, PO4, PO6, P08 | | | | | |
| **CO5** | Have better understanding on the approaches to disaster risk reduction | | | | | | | PO1, PO2, PO4, PO5, P08 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | [International Journal of Disaster Risk Reduction](https://www.sciencedirect.com/journal/international-journal-of-disaster-risk-reduction), Elsevier | | | | | | | | | | | | |
| 2. | [International Journal of Disaster Risk Science](https://www.springer.com/journal/13753/), Springer | | | | | | | | | | | | |
| 3. | [Journal of Emergency Management and Disaster Communications](https://www.worldscientific.com/worldscinet/jemdc), Open Access | | | | | | | | | | | | |
| 4. | Disaster Prevention and Management, Emerald | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Pelling, Mark (eds), Natural Disasters and Development in a Globalizing World. Routledge. New York, 2002 | | | | | | | | | | | | |
| 2. | Environmental Guidance Note for Disaster Risk Reduction: Healthy Ecosystems for Human Security, International Union for Conservation of Nature and Natural Resources, 2009 | | | | | | | | | | | | |
| 3. | Kundzewicz, & Zbigniew W, Non-structural Flood Protection and Sustainability, USA: Water International, 2009 | | | | | | | | | | | | |
| 4. | Pradeep Sahni, Alka Dhameja, Uma Medury, Disaster Mitigation: Experiences and Reflections, PHI, 2004 | | | | | | | | | | | | |
| 5. | R B Singh, Natural Hazards and Disaster Management: Vulnerability and Mitigation, Rawat Publications, 2006 | | | | | | | | | | | | |
| 6. | Arnold, Magret, Development for disaster reduction: the role of the World Bank. Australian Journal of Emergency Management, 2002 | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** | 2 | 3 |  | 3 |  |  |  |  |
| **CO 2** | 3 | 2 |  | 2 |  |  |  | 3 |
| **CO 3** | 3 | 3 |  | 3 |  |  |  | 2 |
| **CO 4** | 3 | 2 |  | 3 |  | 3 |  | 2 |
| **CO 5** | 2 | 3 |  | 2 | 3 |  |  | 3 |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Geoinformatics in Disaster**  **Mitigation** | Elective | 3 | - | - | - | 3 | | 45 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To provide insights on the Importance of RS and GIS for disaster mitigation | | | | | | | | | | | | |
| C2 | To throw light on flood, cyclone and Tsunami | | | | | | | | | | | | |
| C3 | To familiarize on drought and fire and management using GIS | | | | | | | | | | | | |
| C4 | To create awareness on the potential of RS and GIS applications in disaster mapping | | | | | | | | | | | | |
| C5 | To elucidate on Spatial Data Infrastructure to facilitate disaster management | | | | | | | | | | | | |
|  | **SYLLABUS** | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | **Introduction:** Importance of RS and GIS for disaster mitigation, forecast, forewarning system, disaster preparedness with respect to different disasters - Earthquake, volcanoes and landslides: RS and GIS in earthquake prediction and post-quake rehabilitation, GIS for earthquake disaster management, mapping tectonic features, RS of geothermal field, mapping lava flows, volcano hazard management, RS and GIS for zonation, monitoring and management of landslides. | | | | | | | 9 | | | C1 | | |
| II | **Flood, cyclone and Tsunami**: Flooding potential zonation mapping, flood hazard assessment, ice cover monitoring and its role in flooding; Cyclone monitoring using INSAT, ERS-1, NOAA and DMSP satellites, RS and GIS in cyclone mapping and mitigation, damage assessment, warning; RS and GIS for Tsunamic warning, damage assessment and rehabilitation. | | | | | | | 9 | | | C2 | | |
| III | **Drought and Fire:** Delineation of drought vulnerable areas, drought monitoring, GIS based drought analysis, desertification factors, monitoring vegetative biomass; Forest Fire – causes, management using GIS, risk zonation mapping, forecasting system | | | | | | | 9 | | | C3 | | |
| IV | **Data management:** Hazard evaluation – Zonation – Risk assessment and vulnerability, Damage assessment – Land use planning and regulation for sustainable development, Potential of RS and GIS applications in disaster mapping– Disaster management plan. | | | | | | | 9 | | | C4 | | |
| V | Spatial Data Infrastructure (SDI) to facilitate Disaster Management, GIS based Decision Support Systems (DSS) for disaster management, Satellite surveillance for disaster mitigation. | | | | | | | 9 | | | C5 | | |
|  | **Total** | | | | | | | **45** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Have insights on the Importance of RS and GIS for disaster mitigation | | | | | | | PO1, PO2, PO4 | | | | | |
| **CO2** | Possess knowledge on flood, cyclone and Tsunami | | | | | | | PO1, PO2, PO4 | | | | | |
| **CO3** | Have better understanding on drought and fire and management using GIS | | | | | | | PO1, PO2, PO4, PO5 | | | | | |
| **CO4** | Possess knowledge on potential of RS and GIS applications in disaster mapping | | | | | | | PO1, PO2, PO4, PO5, PO6, PO7 | | | | | |
| **CO5** | Learn and understand Spatial Data Infrastructure to facilitate disaster management | | | | | | | PO1, PO2, PO4, PO5, PO6, PO8 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | Disaster Management and Geospatial Information, MDPI | | | | | | | | | | | | |
| 2. | [Natural Hazards and Earth System Sciences](https://www.natural-hazards-and-earth-system-sciences.net/), European Geosciences Union | | | | | | | | | | | | |
| 3. | International Journal of Geo-Information, MDPI | | | | | | | | | | | | |
| 4. | Geoscience Data Journal, Royal Meteorological Society | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Roy, P.S, Natural Disaster and their mitigation. Published by Indian Institute of Remote Sensing (IIRS), 2000 | | | | | | | | | | | | |
| 2. | Bhattacharya, Tushar, Disaster Science and Management, USA: McGraw Hill, 2012 | | | | | | | | | | | | |
| 3. | Sisi Zlatanova& Andrea Fabbri Jonathanli, Geometrics solutions for  Disaster management, Springer Verlag, 2007 | | | | | | | | | | | | |
| 4. | Murthy, D.P.N, Disaster Management, India: Deep & Deep Publication, 2008 | | | | | | | | | | | | |
| 5. | Orhan, R., Backhaus, P.,Boccardo, S.,Zlatanova, Geoinformation for  Disaster and Risk Management Examples and Best Practices, Joint Board of  GeospatialInformation Societies and United Nations Office for Outer Space  Affairs, Denmark, 2010 | | | | | | | | | | | | |
| 6. | Singh, R.B, Space Technology for Disaster Monitoring and Mitigation  in India, International Center for Disaster-Mitigation Engineering, 1994 | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** | 3 | 3 |  | 2 |  |  |  |  |
| **CO 2** | 3 | 2 |  | 3 |  |  |  |  |
| **CO 3** | 2 | 3 |  | 3 | 2 |  |  |  |
| **CO 4** | 3 | 2 |  | 2 | 3 | 3 | 3 |  |
| **CO 5** | 2 | 3 |  | 3 | 3 | 2 |  | 3 |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Climate Change and Disaster Management** | Elective | 3 | - | - | - | 3 | | 45 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To familiarize the students on global climate change trends and impacts | | | | | | | | | | | | |
| C2 | To provide insights on impact of climate change in agriculture | | | | | | | | | | | | |
| C3 | To throw light on adaptation and water resources | | | | | | | | | | | | |
| C4 | To elucidate on adaptation in Coastal Zones | | | | | | | | | | | | |
| C5 | To create awareness on the importance of governance and policies for adaptation in disaster risk management | | | | | | | | | | | | |
|  | **SYLLABUS** | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | **Global climate change trends and impacts**: Meaning of adaptation to climate change- Vulnerability to climatic changes - Linking adaptation to development - Adaptation at the international level - Governance and policies for adaptation - Integrating adaptation into development planning - Moving ahead on adaptation  in India. | | | | | | | 9 | | | C1 | | |
| II | **Adaptation in Agriculture**: Impact of climate change in agriculture- The meaning of adaptation in agriculture- Governance and policies for adaptation in agriculture- Adaptation options in agriculture – Linking adaptation and mitigation. | | | | | | | 9 | | | C2 | | |
| III | **Adaptation and water resources**: Impact of climate change in water resources- The meaning of adaptation in water resources management- Governance and policies for adaptation in water resources management- Adaptation options in water resources management- Linking adaptation and mitigation. | | | | | | | 9 | | | C3 | | |
| IV | **Adaptation in Coastal Zones:** Climate change impact in coastal zones- The meaning of adaptation in coastal zones- Governance and policies for adaptation in coastal zones- Adaptation options in coastal zones- Linking adaptation and mitigation. | | | | | | | 9 | | | C4 | | |
| V | **Adaptation in Disaster Risk Management**: How does climate change impact disaster risks? What does adaptation in disaster risk management mean? Governance and policies for adaptation in disaster risk management- Adaptation options in disaster risk management- Linking adaptation and mitigation. | | | | | | | 9 | | | C5 | | |
|  | **Total** | | | | | | | **45** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Possess the knowledge on global climate change trends and impacts | | | | | | | PO1, PO2, PO3 | | | | | |
| **CO2** | Have insights on impact of climate change in agriculture | | | | | | | PO1, PO2, PO3 | | | | | |
| **CO3** | Possess knowledge on adaptation and water resources | | | | | | | PO1, PO2, PO5, PO8 | | | | | |
| **CO4** | Learn about adaptation in Coastal Zones | | | | | | | PO1, PO2, PO8 | | | | | |
| **CO5** | Have better understanding on governance and policies for adaptation in disaster risk management | | | | | | | PO1, PO2, PO3, PO8 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | [Economics of Disasters and Climate Change](https://www.springer.com/journal/41885/), Springer | | | | | | | | | | | | |
| 2. | Climate Change and Sustainable Disaster Management, MDPI | | | | | | | | | | | | |
| 3. | Disasters – Wiley Online Library | | | | | | | | | | | | |
| 4. | International Journal of Climate Change Strategies and Management, Emerald | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Byravan, S. and Sudhir ChellaRajan, An Evaluation of India’s National Action Plan for Climate Change, IFMR: Chennai, 2012 | | | | | | | | | | | | |
| 2. | Dubash K.Navroz (ed), India in a Warming World: Integrating Climate and Development, Oxford University Press. London, 2019 | | | | | | | | | | | | |
| 3. | Food and Agricultural Organisation of the United Nations (FAO), Adaptation to climate change in agriculture, forestry and fisheries: Perspective, framework and priorities, 2007 | | | | | | | | | | | | |
| 4. | N Mani, Environment, Climate Change & Disaster Management, New Century Publications, 2017 | | | | | | | | | | | | |
| 5. | Alka Chauhan, Pawan Kumar Bharti, Climate Change, Disaster Management and Environment Discovery Publishing House Pvt Ltd, 2016 | | | | | | | | | | | | |
| 6. | [Stéphane Hallegatte](https://link.springer.com/book/10.1007/978-3-319-08933-1#author-0-0), Natural Disasters and Climate Change - An Economic Perspective, Springer, 2014 | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** | 3 | 3 | 2 |  |  |  |  |  |
| **CO 2** | 3 | 2 | 3 |  |  |  |  |  |
| **CO 3** | 2 | 3 |  |  | 3 |  |  | 3 |
| **CO 4** | 3 | 2 |  |  |  |  |  | 2 |
| **CO 5** | 2 | 3 | 3 |  |  |  |  | 3 |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Psycho-social Ramifications and Resource Mobilization** | Elective | 3 | - | - | - | 3 | | 45 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To provide insights to identifying socio-psychological Needs in Mass Emergency | | | | | | | | | | | | |
| C2 | To throw light on the training in humanitarian professionalism | | | | | | | | | | | | |
| C3 | To familiarize on the individual empowerment | | | | | | | | | | | | |
| C4 | To create awareness on the importance of community building in developing local resilience to disasters | | | | | | | | | | | | |
| C5 | To elucidate on economic impact of disasters | | | | | | | | | | | | |
|  | **SYLLABUS** | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | **Identifying Socio-Psychological Needs in Mass Emergency:** Global assessment of Needs and Priorities, Area specific requirements, Psychological Characteristics of Disaster Management, Different psychological considerations in natural and man made disasters | | | | | | | 9 | | | C1 | | |
| II | **Training in Humanitarian Professionalism:** Professionalism and Humanitarian Responses, Short term support, Long term support, Conducting workshops and case analysis. | | | | | | | 9 | | | C2 | | |
| III | Individual Empowerment: Study of social domains, movements of actors negotiating the conditions and effects of vulnerability and disaster, Max Weber’s notion of calculability in handling crisis, | | | | | | | 9 | | | C3 | | |
| IV | Community Empowerment: Community building in developing local resilience to disasters: developing seed leaders, communication networks and personal commitments. | | | | | | | 9 | | | C4 | | |
| V | Operative and Strategic Management: Economic Impact of Disasters, Role of NGOs, Role of Education, Role of Agencies: National and International, The methods and tools for analyzing potential investment decisions in hazard prone areas and alternative development strategies | | | | | | | 9 | | | C5 | | |
|  | **Total** | | | | | | | **45** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Have insights to identifying socio-psychological Needs in Mass Emergency | | | | | | | PO1, PO2, PO4 | | | | | |
| **CO2** | Possess knowledge on the training in humanitarian professionalism | | | | | | | PO1, PO2, PO4 | | | | | |
| **CO3** | Have better understanding on the individual empowerment | | | | | | | PO1, PO2, PO4, PO5 | | | | | |
| **CO4** | Possess knowledge about community building in developing local resilience to disasters | | | | | | | PO1, PO2, PO4, PO5, PO6, PO7 | | | | | |
| **CO5** | Learn and understand economic impact of disasters | | | | | | | PO1, PO2, PO4, PO5, PO6, PO8 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | [Review of General Psychology](https://journals.sagepub.com/home/RGP), Sage | | | | | | | | | | | | |
| 2. | Annual Review of Sociology, Annual Reviews | | | | | | | | | | | | |
| 3. | American Journal of Sociology, JSTOR | | | | | | | | | | | | |
| 4. | [American Journal of Community Psychology](https://link.springer.com/journal/10464), Springer | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | OHO Lerbinger, The Crisis Manager, Facing risk and responsibility, Lawrence Erlbaum associates, 1986 | | | | | | | | | | | | |
| 2. | Peter, K. Hodgkinson, Copying with Catastrophe, A handbook of post disaster psychological after care. Routledge, 1998 | | | | | | | | | | | | |
| 3. | Horowitz, M, Stress response syndranes, Northvale, N.J. Armson, 1986 | | | | | | | | | | | | |
| 4. | Kazimiera Adamowski, Creating Excellence in Crisis Care, Johnwiley & Sons Inc., 1998 | | | | | | | | | | | | |
| 5. | [Katja Hujo](https://link.springer.com/book/10.1007/978-3-030-37595-9#author-1-0), The Politics of Domestic Resource Mobilization for Social Development, Springer, 2020 | | | | | | | | | | | | |
| 6. | [Girishwar Misra](https://link.springer.com/book/10.1007/978-81-322-3782-2#author-1-0), Psychosocial Interventions for Health and Well-Being, Springer, 2018 | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** | 3 | 3 |  | 2 |  |  |  |  |
| **CO 2** | 3 | 2 |  | 3 |  |  |  |  |
| **CO 3** | 2 | 3 |  | 3 | 2 |  |  |  |
| **CO 4** | 3 | 2 |  | 2 | 3 | 3 | 3 |  |
| **CO 5** | 2 | 3 |  | 3 | 3 | 2 |  | 3 |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Disaster Economics and Financing** | Elective | 3 | - | - | - | 3 | | 45 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To familiarize the students with imperfect information and adverse selection | | | | | | | | | | | | |
| C2 | To provide insights on impact of disaster | | | | | | | | | | | | |
| C3 | To throw light on principles for public intervention in the catastrophe insurance markets | | | | | | | | | | | | |
| C4 | To elucidate on India’s disaster financing framework and policy | | | | | | | | | | | | |
| C5 | To create awareness on the role of international financial institutions in disaster finance | | | | | | | | | | | | |
|  | **SYLLABUS** | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | **Economics of Information**- Imperfect Information-the market for lemons- Akerlof’s Model- Adverse Selection- Moral Hazard- Signalling and screening- Transaction cost- the Principal-Agent Model. | | | | | | | 9 | | | C1 | | |
| II | **Impact of Disaster:** Humanitarian impact; economic impact. Direct and Indirect Costs; Tangible and Intangible Costs. Damage assessment methods: Damage Loss and Needs Assessment; Risk identification and assessment. | | | | | | | 9 | | | C2 | | |
| III | Risk aversion- Arrow-Lind measure of risk aversion; Disaster risk financing: Market imperfections and catastrophe insurance- Principles for public intervention in the catastrophe insurance markets- Risk transfer: Alternative risk transfer instruments: Catastrophe bonds, weather derivatives, contingent credit and catastrophe swap. | | | | | | | 9 | | | C3 | | |
| IV | India’s disaster financing framework and policy. Disaster financing in India- trends and magnitude over the years. Finance Commission- role and functions. | | | | | | | 9 | | | C4 | | |
| V | The role of international financial institutions in disaster finance. Disaster and development- disaster and international finance capital in the neoliberal world | | | | | | | 9 | | | C5 | | |
|  | **Total** | | | | | | | **45** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Possess the knowledge on imperfect information and adverse selection | | | | | | | PO2, PO3, PO4 | | | | | |
| **CO2** | Have insights on impact of disaster | | | | | | | PO1, PO2, P04, P05 | | | | | |
| **CO3** | Possess knowledge on principles for public intervention in the catastrophe insurance markets | | | | | | | PO1, PO2, PO4, PO6 | | | | | |
| **CO4** | Learn about India’s disaster financing framework and policy | | | | | | | PO1, PO2, PO4, PO6, PO8 | | | | | |
| **CO5** | Have better understanding on the role of international financial institutions in disaster finance | | | | | | | PO1, PO2, PO4, PO6, PO7, PO8 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | Disaster Risk Financing A Global Survey of Practices and Challenges, OECD | | | | | | | | | | | | |
| 2. | [Economics of Disasters and Climate Change](https://www.springer.com/journal/41885/), Springer | | | | | | | | | | | | |
| 3. | [Review of Environmental Economics and Policy](https://www.journals.uchicago.edu/toc/reep/current), The University of Chicago Press Journals | | | | | | | | | | | | |
| 4. | International Journal of Humanities Social Science and Management , Open Access | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Bardhan, Pranab, The Economic Theory of Agrarian Institutions, UK: Clarendon, 1991 | | | | | | | | | | | | |
| 2. | Benson Charlotte, & Clay Edward, Understanding the Economic and Financial Impacts of Natural Disasters, Disaster Risk Management Series No.4, Chapter 3 Public Finance and Disasters, World Bank, 2004 | | | | | | | | | | | | |
| 3. | Cunnins, David J and Oliver Mahul, Catastrophe Risk Financing in Developing Countries: Principles for Public Action, The World Bank: Washington, D.C, 2009 | | | | | | | | | | | | |
| 4. | Eric, C. Jones; Arthur, D. Murphy, A. (Ed), The Political Economy of Hazards and Disasters, Altamira Press, USA, 2009 | | | | | | | | | | | | |
| 5. | Goodwin, Barry K; Vincent H. Smith, The Economics of Crop Insurance and Disaster Aid. AEI Press. USA, 1995 | | | | | | | | | | | | |
| 6. | Hochrainer, Stefan, Macroeconomic Risk Management Against Natura Disasters Analysis focussed on Governments in Developing Countries. Dissertation Universitat Wien, 2006 | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** |  | 3 | 3 | 2 |  |  |  |  |
| **CO 2** | 3 | 2 |  | 3 | 3 |  |  |  |
| **CO 3** | 2 | 3 |  | 3 |  | 2 |  |  |
| **CO 4** | 3 | 3 |  | 2 |  | 3 |  | 2 |
| **CO 5** | 3 | 2 |  | 3 |  | 3 | 2 | 3 |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Preventive Laws In Disaster Management** | Elective | 3 | - | - | - | 3 | | 45 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To familiarize the students with the role of the union and the states in disaster management | | | | | | | | | | | | |
| C2 | To provide insights on Important statutes with provisions relevant to disaster management | | | | | | | | | | | | |
| C3 | To throw light on planning and disaster vulnerability | | | | | | | | | | | | |
| C4 | To elucidate on local administration and disaster risk reduction | | | | | | | | | | | | |
| C5 | To create awareness of fire safety norms | | | | | | | | | | | | |
|  | **SYLLABUS** | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | Role of the Union and the States in Disaster Management: Article 246 of the Constitution: Distribution of legislative and administrative powers between the Union and the States with special reference to following entries of Seventh Schedule,Union List : Entry Nos. 6, 7, 15, 22, 53, 54, 55State List : Entry Nos. 1, 2, 5, 6, 25Concurrent List : Entry Nos. 18, 19, 29, 36Functions of designated ministries (MoH as the nodal agency) | | | | | | | 9 | | | C1 | | |
| II | Important statutes with provisions relevant to Disaster Management: Role of legislations in Disaster Management, Scope of Disaster Management Law with reference to Disaster, Management Bill 2005, Disaster Management Laws in Bihar and Gujarat, Essential Services Maintenance Act, Environment Protection Act, 1986, including Hazardous Substances Rules, Explosives Act, 1872, Explosive Substances Act, 1908, Mines and Minerals (Regulation and Development) Act, 1957, Insecticides Act, 1968, Atomic Energy Act, 1962, Factories Act, 1948, WMD Bill, 2005. | | | | | | | 9 | | | C2 | | |
| III | Planning and disaster vulnerability: Planning Commission in Disaster Management, Part IX A : Local bodies (Municipalities and Panchayati Raj Institutions), Panchayats: Article 243 G read with Eleventh Schedule of the Constitution, Municipalities: Article 243 W read with 12th Schedule of the Constitution, Model Town and Country Manning Act, 1960. | | | | | | | 9 | | | C3 | | |
| IV | Local Administration and disaster risk reduction: Municipalities Legislations with reference to DMC Act, 1957, Power and functions of local administration with reference to following matters and case studies, Building byelaws: Ahmedabad building collapses in 2001 Gujarat earthquake, | | | | | | | 9 | | | C4 | | |
| V | **Fire safety norms** : Uphaar Cinema and Tamilnadu School fire tragedies, Municipal services : Plague in Surat, Crowd Management: Satara Stampede, NOC for industrial undertakings : Bhopal Gas Tragedy | | | | | | | 9 | | | C5 | | |
|  | **Total** | | | | | | | **45** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Possess the knowledge on role of the union and the states in disaster management | | | | | | | PO1, PO2, PO4 | | | | | |
| **CO2** | Have insights on Important statutes with provisions relevant to disaster management | | | | | | | PO1, PO2, PO4, P08 | | | | | |
| **CO3** | Possess knowledge on planning and disaster vulnerability | | | | | | | PO1, PO2, PO4, P08 | | | | | |
| **CO4** | Learn about local administration and disaster risk reduction | | | | | | | PO1, PO2, PO4, PO6, P08 | | | | | |
| **CO5** | Have better understanding on fire safety norms | | | | | | | PO1, PO2, PO3, PO4, PO5, P08 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | Disaster Management in India, Ministry of Home Affairs, Government of India | | | | | | | | | | | | |
| 2. | International Journal of Humanities Social Science and Management , Open Access | | | | | | | | | | | | |
| 3. | The Handbook on Law and Disaster Risk Reduction, International Federation of Red Cross and Red Crescent Societies (IFRC) | | | | | | | | | | | | |
| 4. | Disaster Prevention and Management, Emerald | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | [Dr. Priya R. Futane](https://www.amazon.in/s/ref=dp_byline_sr_book_1?ie=UTF8&field-author=Dr.+Priya+R.+Futane&search-alias=stripbooks) , Law Relating to Disaster Management, Regal Publications, 2019 | | | | | | | | | | | | |
| 2. | Prakash V. Dhopatkar, The Disaster Management Act, 2005 with Rules, Regulations and Notifications with Special Reference to COVID-19: Disaster Management Act, 2005, Notion Press, 1st Edition, 2021 | | | | | | | | | | | | |
| 3. | Lexis, The Disaster Management Act, 2005- Bare Act, Universal/LexisNexis, 2021 | | | | | | | | | | | | |
| 4. | Pradeep Sahni, Alka Dhameja, Uma Medury, Disaster Mitigation: Experiences and Reflections, PHI, 2004 | | | | | | | | | | | | |
| 5. | R B Singh, Natural Hazards and Disaster Management: Vulnerability and Mitigation, Rawat Publications, 2006 | | | | | | | | | | | | |
| 6. | Chakrabarty, B., & Bhattacharya, M. (Eds.), The governance discourse: a reader, USA: Oxford University Press, 2008 | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** | 2 | 3 |  | 3 |  |  |  |  |
| **CO 2** | 3 | 2 |  | 2 |  |  |  | 3 |
| **CO 3** | 3 | 3 |  | 3 |  |  |  | 2 |
| **CO 4** | 3 | 2 |  | 3 |  | 3 |  | 2 |
| **CO 5** | 2 | 3 | 3 | 2 | 3 |  |  | 3 |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Disaster Response** | Elective | 3 | - | - | - | 3 | | 45 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To provide insights to the students on best practices in relief operations and response management | | | | | | | | | | | | |
| C2 | To throw light on the humanitarian supply chain management system. | | | | | | | | | | | | |
| C3 | To familiarize on coordination in disaster response | | | | | | | | | | | | |
| C4 | To create awareness of quick disaster response | | | | | | | | | | | | |
| C5 | To elucidate on managing relief, funding relief, recovery. | | | | | | | | | | | | |
|  | **SYLLABUS** | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | Key Response functions -Warning and public evacuation, Post Disaster Need Assessment, Estimation of basic needs- Food, Water, Health, Shelter etc., Concept of Relief- policy, relief delivery and management. Standards and Best Practices in Relief operations-SPHERE standards. Response Management - Emergency Planning, Coordination, Information management, Resource management, Contingency planning, Business Continuity Plans. | | | | | | | 9 | | | C1 | | |
| II | Supply Chain Management, Logistics and Logistics functions. Five Key Building Blocks (Human Resources, Knowledge Management, Logistics, Financial Resources, Community). The humanitarian supply chain management system, its distinctiveness, Principles. Management of relief material and maintenance of essential services. Characteristics of Humanitarian Supply Chain and flows. | | | | | | | 9 | | | C2 | | |
| III | **Coordination in Disaster Response:** Disaster response organization, Disaster response & administration - Central, State, District and Local, Disaster Response: Policy & Other organization, Role of multiple stakeholders in Disaster Response NDRF, SDRF, ITBP, CRPF, SRPF, EMS. | | | | | | | 9 | | | C3 | | |
| IV | **Quick Disaster Response:** First responder, medical first aid, life saving techniques, Golden time. Search & Rescue equipment- Search & Rescue equipment for  different disasters, its use,  procurement, maintenance, management & other teams. | | | | | | | 9 | | | C4 | | |
| V | Individual and Group behaviour, Psychological Response, Trauma & Stress Management, Rumour & Panic Management Relief measures, Minimum standards of relief, managing relief, Funding relief, Recovery. | | | | | | | 9 | | | C5 | | |
|  | **Total** | | | | | | | **45** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Have insights to the students on best practices in relief operations and response management | | | | | | | PO2, PO3, PO4 | | | | | |
| **CO2** | Possess knowledge on the humanitarian supply chain management system. | | | | | | | PO1, PO2, P04, P05 | | | | | |
| **CO3** | Learn about coordination in disaster response | | | | | | | PO1, PO2, PO4, PO6 | | | | | |
| **CO4** | Possess the knowledge on quick disaster response | | | | | | | PO1, PO2, PO4, PO6, PO8 | | | | | |
| **CO5** | Have better understanding on managing relief, funding relief, recovery. | | | | | | | PO1, PO2, PO4, PO6, PO7, PO8 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | Disaster Management & Response, Elsevier | | | | | | | | | | | | |
| 2. | International Journal of Disaster Response and Emergency Management, IGI Global | | | | | | | | | | | | |
| 3. | Crisis Response Journal, CRJ | | | | | | | | | | | | |
| 4. | International Journal of Crisis Response and Management, IGI Global | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Chopra, S., Meindl, P. and Kalra, D.V, Supply Chain Management: Strategy, Planning and Operation, 2007 | | | | | | | | | | | | |
| 2. | Goel S.L. and Kumar Ram, Disaster Management, Deep and Deep Publications, 2001 | | | | | | | | | | | | |
| 3. | Bollin, C. &Khanna, S, “Review of Post Disaster Recovery Need Assessment Methodologies”, Report commissioned by UNDP, 2007 | | | | | | | | | | | | |
| 4. | Collins Larry R. and Schneid Thomas D., Disaster Management and Preparedness Taylor and Francis 2000 | | | | | | | | | | | | |
| 5. | David A. McEntire , Disaster Response and Recovery: Strategies and Tactics for Resilience, Wiley; 2nd edition, 2015 | | | | | | | | | | | | |
| 6. | Bowersox, J.D and Closs, D.J, Logistical Management: The integrated supply chain process, New Delhi: Tata McGraw Hill, 2008 | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** |  | 3 | 3 | 2 |  |  |  |  |
| **CO 2** | 3 | 2 |  | 3 | 3 |  |  |  |
| **CO 3** | 2 | 3 |  | 3 |  | 2 |  |  |
| **CO 4** | 3 | 3 |  | 2 |  | 2 |  | 2 |
| **CO 5** | 3 | 2 |  | 3 |  | 3 | 2 | 3 |

**3-Strong 2-Medium 1-Low**

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| **Subject Code** | **Subject Name** | **Category** | **L** | **T** | **P** | **O** | **Credits** | | **Inst. Hours** | **Marks** | | | |
| **CIA** | | **External** | **Total** |
|  | **Disaster Recovery** | Elective | 3 | - | - | - | 3 | | 45 | 25 | | 75 | 100 |
| **Course Objectives** | | | | | | | | | | | | | |
| C1 | To familiarize the students on concepts of recovery, rehabilitation and reconstruction | | | | | | | | | | | | |
| C2 | To provide insights on recovery context; competing values in models of recovery- | | | | | | | | | | | | |
| C3 | To throw light on elements of recovery plan | | | | | | | | | | | | |
| C4 | To elucidate on mitigating disaster risk during recovery | | | | | | | | | | | | |
| C5 | To create awareness of disaster recovery processes | | | | | | | | | | | | |
|  | **SYLLABUS** | | | | | | | | | | | | |
| **UNIT** | **Details** | | | | | | | **No. of Hours** | | | **Course Objectives** | | |
| I | Concepts of Recovery, Rehabilitation and Reconstruction- Impact of Disaster: Societal changes- displacement; livelihood; infrastructural; public health; environmental changes; political and organizational changes; psychological impact; changes in business environment | | | | | | | 9 | | | C1 | | |
| II | Recovery context; competing values in models of recovery-restore existing or reimagined community, Challenges in recovery processes. Phases of Recovery. Laws and Policies. | | | | | | | 9 | | | C2 | | |
| III | Elements of recovery plan. Community participation in planning process. Role of planning experts, community leaders and other interest groups. Role of NGO, CBO and FBO in recovery process, Role of Media. | | | | | | | 9 | | | C3 | | |
| IV | Mitigating disaster risk during recovery- land use, livelihood, risk assessment methods; choices under uncertainty. Financing of recovery projects, Recovery management approaches- centralized versus decentralized,community as participants. | | | | | | | 9 | | | C4 | | |
| V | **Case studies of disaster recovery processes:** Indian Ocean Tsunami 2004, Gaja Cyclone 2018, Kerala flood 2018. | | | | | | | 9 | | | C5 | | |
|  | **Total** | | | | | | | **45** | | |  | | |
| **Course Outcomes** | | | | | | | | | | | | | |
| **Course Outcomes** | On completion of this course, students will; | | | | | | | **Program Outcomes** | | | | | |
| **CO1** | Possess the knowledge on concepts of recovery, rehabilitation and reconstruction | | | | | | | PO1, PO2, PO4 | | | | | |
| **CO2** | Have insights on recovery context; competing values in models of recovery- | | | | | | | PO1, PO2, PO4, P08 | | | | | |
| **CO3** | Possess knowledge on elements of recovery plan | | | | | | | PO1, PO2, PO4, P08 | | | | | |
| **CO4** | Learn about mitigating disaster risk during recovery | | | | | | | PO1, PO2, PO4, PO6, P08 | | | | | |
| **CO5** | Have better understanding on disaster recovery processes | | | | | | | PO1, PO2, PO4, PO5, P08 | | | | | |
| **Reading List** | | | | | | | | | | | | | |
| 1. | Disaster Recovery Journal, DRJ | | | | | | | | | | | | |
| 2. | [International Journal of Disaster Recovery and Business Continuity](http://sersc.org/journals/index.php/IJDRBC/index), SERSC | | | | | | | | | | | | |
| 3. | International Journal of Disaster Response and Emergency Management, IGI Global | | | | | | | | | | | | |
| 4. | [Journal of Emergency Management and Disaster Communications](https://www.worldscientific.com/worldscinet/jemdc), Open Access | | | | | | | | | | | | |
| **References Books** | | | | | | | | | | | | | |
| 1. | Amaratunga, D. and Haigh, R, (eds) Post Disaster Reconstruction of the  Built Environment, Wiley-Blackwell, 2011 | | | | | | | | | | | | |
| 2. | David A. McEntire , Disaster Response and Recovery: Strategies and Tactics for Resilience, Wiley; 2nd edition, 2015 | | | | | | | | | | | | |
| 3. | Collins Larry R. and Schneid Thomas D., Disaster Management and Preparedness Taylor and Francis 2000 | | | | | | | | | | | | |
| 4. | Goel S.L. and Kumar Ram, Disaster Management, Deep and Deep Publications, 2001 | | | | | | | | | | | | |
| 5. | Nidhi Gauba Dhawan, Ambrina Sardar Khan - Disaster Management And Preparedness–,CBS Publishers & Distributors,–2012 | | | | | | | | | | | | |
| 6. | Goel. S.L, Disaster Administration and Management, New Delhi: Deep & Deep publication, 2007 | | | | | | | | | | | | |

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|  | **PO 1** | **PO 2** | **PO 3** | **PO 4** | **PO 5** | **PO 6** | **PO 7** | **PO 8** |
| **CO 1** | 2 | 3 |  | 3 |  |  |  |  |
| **CO 2** | 3 | 2 |  | 2 |  |  |  | 3 |
| **CO 3** | 3 | 3 |  | 3 |  |  |  | 2 |
| **CO 4** | 3 | 2 |  | 3 |  | 3 |  | 2 |
| **CO 5** | 2 | 3 |  | 2 | 3 |  |  | 3 |

**3-Strong 2-Medium 1-Low**

**Evaluation and Assessment**

The students will be Evaluated and Assessed on all the courses as given below:

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| --- | --- | --- |
| **Methods of Evaluation** | | |
| **Internal Evaluation** | Continuous Internal Assessment Test | 25 Marks |
| Assignments |
| Seminars |
| Attendance and Class Participation |
| **External Evaluation** | End Semester Examination | 75 Marks |
|  | Total | 100 Marks |
| **Methods of Assessment** | | |
| **Recall (K1)** | Simple definitions, MCQ, Recall steps, Concept definitions | |
| **Understand/ Comprehend (K2)** | MCQ, True/False, Short essays, Concept explanations, Short summary or overview | |
| **Application (K3)** | Suggest idea/concept with examples, Suggest formulae, Solve problems, Observe, Explain | |
| **Analyze (K4)** | Problem-solving questions, Finish a procedure in many steps, Differentiate between various ideas, Map knowledge | |
| **Evaluate (K5)** | Longer essay/ Evaluation essay, Critique or justify with pros and cons | |
| **Create (K6)** | Check knowledge in specific or offbeat situations, Discussion, Debating or Presentations | |