

Subject Code: 1MS3010691

Subject Title: Disaster Management

1. Course Objectives:

At the end of semester students would be able to:

1. To provide basic conceptual understanding of disasters.
2. To understand approaches of Disaster Management.
3. To build skills to respond to disaster.

2. Learning Outcomes:

1. Demonstrates basic knowledge of disaster activities from incident response to recovery operations.
2. Employs emergency planning to mitigate against, cope with and recover from a disaster.
3. Reduces community vulnerability through hazard analysis and mitigation.
4. Builds and implements a community hazard mitigation plan.
5. Uses risk management principles to identify hazards, and conduct analysis of risk and impact.

3. Teaching Scheme (Hours per week)

Lecture (Hrs.)	Tutorial	Practical	Credit	Examination Evaluation		Total
				University Assessment	Continuous Assessment	
4	0	0	0	0	0	0

4. Syllabus:

Module No.	Contents	Total Hours	Weight (%)
1	Fundamentals of Disaster Management Concepts and definitions of Disaster Management, Disaster Classification: Natural and Man-made disasters, Disaster Impacts (social, economic, political, environmental, health, psychosocial, etc.), Basic principles of Disaster Management, Disaster Management cycle. Global trends in disasters, Urban Disasters, Pandemics, complex Emergencies, Climate change.	10	25
2	Disaster Management and Risk Assessment Pre Disaster Management Activities: Hazard and Vulnerability	10	25

	analysis, Emergency Contingency planning, Risk Reduction Post Disaster Management Activities: Development Planning, types of plans, Decision making models and processes, Search, Rescue, Evacuation and Logistic Management		
3	Disaster Mitigation Response and Preparedness: Roles of Information, Education, Communication and Training in DM, Role and Responsibilities of Central, State, District and Local Administration for effective disaster mitigation. Emerging Trends in Disaster Mitigation and Management, Significance of Team and Coordination for Disaster Mitigation. DM Policy and Legislation.	10	25
4	Disaster Risk Assessment Techniques: Risk identification, Early warning system, Application of Remote Sensing (RS), Geographic Information System (GIS), and Global Positioning System (GPS) in Risk Assessment.	10	25

5. Suggested Reference Books:

Author/s	Name of the Book	Publication
Dr. Mrinalini Pandey	Disaster Management	Wiley India Pvt. Ltd.
R.K. Sharma & G. Sharma	Natural Disaster	APH Publishing Corporation
Pardeep Sahni	Disaster Mitigation Experiences and Reflections	Prentice Hall of India, New Delhi
Edwards Bryant	Natural Hazards	Cambridge University Press
U.K.Roy	Space Technology for Disaster management: A Remote Sensing & GIS Perspective	Indian Institute of Remote Sensing (NRSA)

6.Evaluation Scheme

The evaluation of participants will be on continuous basis comprising of the following Elements:

Component	Weight
Internal Assessment Depending on the need and objectives of the subject, internal assessment should include minimum three of the following sub-components; - Class Test, Quiz, Assignments, Case Presentation, Class Participation, Projects, Team/Individual Assignments. - The weightage of a sub-component should not exceed 50% of internal assessment component weight. - The bifurcation of sub-components shall be communicated by the instructor before commencement of the academic sessions.	40%
University Examination * For the written examination, the open book examination may be opted by the paper setter appropriately	60%