



MANGALORE UNIVERSITY

DEPARTMENT OF MARINE GEOLOGY

MSc GEOINFORMATICS

GIS 504: DISASTER MANAGEMENT

Course Outcome:

CO1: Students will come to know on various kinds of disasters (natural and man-made) like earthquakes, floods, landslides, tsunamis, fires their causes and what kind of preparedness must be taken to minimize the impact of disasters.

CO2: Disaster Management Concepts of disaster; Types of disaster Natural and manmade: Cyclone, flood, land slide, land subsidence, fire and earthquake. Issues and concern for various causes of disasters.

CO3: Principles of Disaster Management, Natural Disasters, Hazards, Risks and Vulnerabilities.

Unit 1	Disaster Management Concepts of disaster; Types of disaster Natural and manmade: Cyclone, flood, land slide, land subsidence, fire and earthquake. Issues and concern for various causes of disasters. Principles of Disaster Management, Natural Disasters, Hazards, Risks and Vulnerabilities.	08 hrs
Unit 2	Assessment of Disaster Vulnerability of a location and vulnerable groups. Preparedness and Mitigation measures for various Disasters. Preparation of Disaster Management Plans.	08 hrs
Unit 3	Issues in Environmental Health, Water & Sanitation, Earthquake Mitigation, Floods, Fire, Landslides and other natural calamities. Post Disaster Relief & Logistics Management.	08 hrs
Unit 4	Emergency Support Functions and their coordination mechanism. Resource & Material Management. Management of Relief Camp.	08 hrs
Unit 5	Information systems & decision making tools. Role of Remote Sensing, Science & Technology. Rehabilitation Programmes	08 hrs
Unit 6	Voluntary Agencies & Community Participation at various stages of disaster management. Role of military and paramilitary forces during disaster.	08 hrs

References

1. Ecology, Environment & Pollution-A. Balasubramanian (1995) M/s. Indira Publishers, Mysore.
2. Atmosphere, Weather and Climate: An introduction to Meteorology-Narora-S. B. Saunders Co., Philadelphia
3. Physical Geology -A. N. Strahler
4. Meteorology - William L. Donn (1975) - McGraw-Hill Book Co., New York.
5. An introduction to Dynamic Meteorology - J. R. Holton (1992) - III Ed, Academic Press.
6. R.W. Tank: Focus on Environmental Geology (p.256)

