

Department of Geology, UCS&I, MGU, Nalgonda  
Semester – III, ID Paper -Disaster Management

**Unit - I**

Introduction: Disasters, Types, Natural Disasters, Impact of disasters on environment, Infrastructure, Livestock, Human, Housing, Communication, Food, Shelter, Medicine. Rehabilitation hazards, Vulnerability, Risk analysis (assessment of hazard, nature of vulnerability), Basic Principles and elements of disaster mitigation, Disaster management, organization and methodology, cost benefit considerations, Progress in International disaster, reduction and mitigation.

**Unit - II**

Earthquakes: Introduction to earthquakes, Earthquake prediction, Intensity scales, Seismic activity in India, Earthquakes in A. P., Action plan for Earthquakes, visibility of earthquake situation, Actions to be taken before earthquake, Do'' & Don'ts after and during Earthquakes. Action during Earthquakes, Recovery and rehabilitation after earthquake.

**Unit - III**

Floods: Flood mitigation practice, flood management and community perspectives, (Flood control - disaster management, A study in cost benefit analysis), Vulnerability analysis, Risk assessment, Action to be taken before, after and during floods, Recovery and rehabilitation after floods, Visibility of flood situation, Psychological factors, Cyclone management in coastal area.

**Unit - IV**

Drought, Characteristics of drought, Impact on environment, economy, contingency action plans, cost benefit analysis, vulnerability studies. Cost studies in disaster management of floods, Earthquakes, Wind and drought disasters, Relief operations to mitigation approach of natural disaster, i.e. floods, earthquakes, drought and cyclones.

**Books Recommended**  
**Disaster Mangement**

1. Vinod K. Sharma (1999) Disaster Management. National Centre for Disaster management, IPE, New Delhi,
2. Alexander David (1993) Natural Disaster, UCC Press, London.
3. Kathkali S Bagchi (1991) Problems and Perspectives -Drought Prone India. New Delhi,