

**BA / BSc 6th SEMESTER
DISCIPLINE SPECIFIC ELECTIVE (DSE)**

GG616D: FUNDAMENTALS OF DISASTER MANAGEMENT

**CREDITS: THEORY: 4, PRACTICAL: 2
Maximum Marks 60**

THEORY (4 CREDITS)

Credit-I

- 1) Meaning and Definition- Hazard and Disaster
- 2) Introduction to Geo-Physical Disasters
- 3) Earthquakes
- 4) Landslides
- 5) Tsunami

Credit-II

- 1) Introduction to Hydro-meteorological Disasters
- 2) Cyclones
- 3) Cloud bursts, Floods and Droughts
- 4) Introduction to Man-made Disasters- Nuclear & Chemical Disasters

Credit-III

- 1) Meaning & Scope of Disaster Management
- 2) Elements of Disaster Management-
- 3) Concept of Disaster Risk & Vulnerability

Credit-IV

- 1) Disaster Management Cycle
- 2) Response Phase
- 3) Recovery Phase
- 4) Reconstruction and Rehabilitation Phase
- 5) Disaster Mitigation & Preparedness Phase

PRACTICAL (2 CREDITS)

Maximum Marks = 30

Credit - V

1. Determination of Earthquake Epicenter (6 Exercises)
2. Earthquake Intensity Measurements (Scales) (6 Exercises)
3. Earthquake Response through Mock drill (6 Exercises)
4. Preparation of First Aid Box and its application in specific disasters (4 Exercises')

Credit-VI

1. Emergency Response for Flood and Fire Hazard (6 Exercises)
2. Project Report based on Field Study of any disaster hit area (12 Exercises)

Suggested Readings

1. Bryant Edwards (2005): Natural Hazards, Cambridge University Press, U.K
2. Carter, W. Nick, 1991: Disaster Management, Asian Development Bank, Manila
3. Firefly Guide to Global Hazards, Robert Louis Kovach, Bill McGuire, Firefly Books, 2004
4. H.K. Gupta (2003) Disaster management
5. David Etkin (2014) Disaster Theory, Elsevier.