

**TEZPUR UNIVERSITY**  
Centre for Disaster Management

CBCT / Open Elective Course at PG Level

**SYLLABUS**

Course code	Course Name	Credit	L	T	P
DM 301	Disaster Management	3	3	0	0

**Unit 01: Understanding disaster**

Concept of disaster; Different approaches; Concept of Risk; Levels of disasters; Disaster phenomena and events (*Global, national and regional*)

**Unit 02: Hazards and Vulnerability**

Natural and man-made hazards; response time, frequency and forewarning levels of different hazards; Characteristics and damage potential of natural hazards; hazard assessment; Dimensions of vulnerability factors; vulnerability assessment; Vulnerability and disaster risk; Vulnerabilities to flood and earthquake hazards

**Unit 03: Disaster management mechanism**

Concepts of risk management and crisis management; Disaster management cycle; Response and Recovery; Development, Prevention, Mitigation and Preparedness; Planning for relief

**Unit 04: Capacity building**

Capacity building: Concept; Structural and nonstructural measures; Capacity assessment; strengthening capacity for reducing risk; Counter-disaster resources and their utility in disaster management; Legislative support at the state and national levels

**Unit 05: Coping with disaster**

Coping strategies; alternative adjustment processes; Changing concepts of disaster management; Industrial safety plan; safety norms and survival kits; Mass media and disaster management

## Unit 06: Planning for disaster management

Strategies for disaster management planning; Steps for formulating a disaster risk reduction plan; Disaster management Act and Policy in India; Organisational structure for disaster management in India; Preparation of state and district disaster management plans

### Text books

1. Alexander, D. *Natural Disasters*, ULC press Ltd, London, 1993.
2. Carter, W. N. *Disaster Management: A Disaster Management Handbook*, Asian Development Bank, Bangkok, 1991.
3. Chakrabarty, U. K. *Industrial Disaster Management and Emergency Response*, Asian Books Pvt. Ltd., New Delhi 2007.

### References

1. Abarquez I. & Murshed Z. *Community Based Disaster Risk Management: Field Practitioner's Handbook*, ADPC, Bangkok, 2004.
2. Goudie, A. *Geomorphological Techniques*, Unwin Hyman, London 1990.
3. Goswami, S. C. *Remote Sensing Application in North East India*, Purbanchal Prakesh, Guwahati, 1997.
4. *Manual on Natural Disaster Management in India*, NCDM, New Delhi, 2001.
5. *Disaster Management in India*, Ministry of Home Affairs, Government of India, New Delhi, 2011.
6. *National Policy on Disaster Management*, NDMA, New Delhi, 2009.
7. *Disaster Management Act. (2005)*, Ministry of Home Affairs, Government of India, New Delhi, 2005.
8. *District Disaster Management Plan-Model Template*, NIDM, New Delhi, 2005.

