

New course

“ **SKILL ENHANCEMENT COURSES** ”

3 ^{of} credits (CSEC 3- Disaster
management) in UG syllabus to
be offered in 4th semester

Department of Environmental Science

Nagaland University

2024

Course Code: SEC3
Course Title: Disaster Management
Course Credits: 3

Objective of the Course

1. To provide basic conceptual understanding of disasters.
2. To understand approaches of Disaster Management.
3. To build skills related to disaster response and preparedness.

Unit 1: Concept of disaster

Introduction to Disaster, Hazards, risk and Vulnerability; Types, causes and Effect of Natural (Earthquakes, Landslides, Flood and Cyclone) and Anthropogenic Disaster (Industrial accidents, Nuclear accident, Oil Spill); Biological Hazards and Bioterrorism.

Unit 2: Mitigation and Management techniques of Disaster

Basic principles of disasters management, Disaster Management cycle, Disaster management policy, National and State Bodies for Disaster Management, Early Warning Systems; Building design and construction in highly seismic zones, retrofitting of buildings.

Unit 3: Disaster management in India

Lessons from the past considering the examples of earthquake, tsunami disaster and Bhopal tragedy; National Disaster Management Framework, national response mechanism, role of government, armed forces and media in disaster management; role of space technology in disaster management.

Unit 4 : Field work

- Visit to a local area to document natural disaster after the event (landslide/ flood) or any disaster prone area.
- Submission of report.

Suggested Readings

1. R. Subramanian, Disaster Management, Vikas Publishing House, Pvt, Ltd, Noida, India, 2018.
2. Keith S., Environmental Hazards - Assessing Risk and Reducing Disaster, Routledge, New York, 2013.
3. Bell F.G., Geological Hazards: Their Assessment, Avoidance & Mitigation, Taylor and Francis, 2003.
4. Nicolas R. Dalezios, Environmental Hazards: Methodologies for Risk Assessment and Management, IWA publisher, 2017.
5. S.C. Sharma, Disaster Management, Khanna book Publishing Co. (P)v Ltd. New Delhi, 2019.