

COURSE CODE: ENS-447
COURSE NAME: Disaster Risk Management
CREDIT HOURS: Theory = 3 Practical = 0 Total = 3
CONTACT HOURS: Theory = 48 Practical = 0 Total = 48
PREREQUISITE: None
MODE OF TEACHING: Three hours of lecture per week

COURSE DESCRIPTION:

This course will provide know-how in dealing with natural calamities and their management by encompassing the field of hazard and disaster studies. It discusses a wide range of aspects, i.e., assessment of factors which put societies in vulnerable situations to the disaster management continuum. To underline the importance of disasters in socio-economic development, this course also aims to assess the consequences of 'natural' catastrophic in both short and long terms. It finally tends to provide the students with basic knowledge on hazard reduction and vulnerability mitigation. The student will learn knowledge of DRM terms and concepts within the global perspective of increasing disaster risk, Explain the processes of hazard, vulnerability, capacity, and risk assessment.

TOPICS COVERED:

Week#	Topics
1	Natural hazards and disasters: The need for hazard and disaster studies
2	Historical background on Hazard and Disaster research
3	Disaster, its types: Natural vs Man-made
4	Flooding, Earthquake, Landslide; Natural cycles and their role
5	Prediction; Hazards, Risk and Vulnerability: Definitions and characterization
6	Factors leading to vulnerability
7	The impact of natural disasters: Direct and short-term impact of disasters
8	Indirect and long-term consequences of catastrophes

9	Midterm Exam – MSE
10	Disaster Management: Components of management, identifying Risk
11	Organizational Role; Role of Government and Non-Governmental Organizations (NGOs)
12	Role of Media in Disaster Management; Disaster Management Trainings and Policies
13-14	Flood Management
15	Earthquake and their damages
16-17	Landslides and their down slope movements
18	End Semester Exam

Text and Material:

1. Natural Hazards and Disasters by Donald Hyndman & David Hyndman, 5th edition, 2016.
2. Introduction to Emergency Management and Disaster Science by Brenda D. Phillips, David M. Neal and Gary R. Webb, Routledge; 3rd edition, 2021.

ASSESSMENT SYSTEM:

Theoretical/Instruction	100%
Assignments	10%
Quizzes	15%
Mid Semester Exam	25%
End Semester Exam	50%
Practical Work	0%
Lab Attendance	0%
Lab Report	0%
Lab Quiz	0%
Lab Rubrics	0%