



JB INSTITUTE OF ENGINEERING & TECHNOLOGY

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Accredited by NAAC & NBA, Approved by AICTE & Permanently Affiliated to JNTUH

DEPARTMENT OF CIVIL ENGINEERING

Is Organizing

Add on Course

on

Disaster Management – Awareness, Planning and Rehabilitation

Day	Session	Topic
23-09-2025	Module 1 (FN)	Basic introduction, Scope and Genesis of Disaster Management
	Module 2 (AN)	Contemporary Civil Engineering, Classifications of Disasters
24-09-2025	Module 3 (FN)	Impact of Natural Disasters and Manmade disaster on human life and in the country development
	Module 4 (AN)	Disaster Management Mechanism
25-09-2025	Module 5 (FN)	Disaster Management Mechanism
	Module 6 (AN)	Capacity Building
26-09-2025	Module 7 (FN)	Capacity Building
	Module 8 (AN)	Coping with Disaster and Coping Strategies
27-09-2025	Module 9 (FN)	Safety norms and survival kits - Mass media and disaster management
	Module 10 (AN)	Planning for disaster management

OBJECTIVES:

To Identify and describe various natural and human-induced disasters, their causes, and associated impacts on society and infrastructure.

OUTCOMES:

Students will be able to Propose suitable post-disaster rehabilitation and reconstruction measures that ensure sustainability and community participation.

**HOD
CIVIL ENGINEERING**

HOD, DEPARTMENT OF CIVIL ENGINEERING
JBIET, YENKAPALLY(V), MOINABAD (M)
R.R. Dist. Hyderabad - 500 075.



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Disaster Management – Awareness, Planning and Rehabilitation

MODULE NUMBER 1

Key Topic covered:

Basic introduction, Scope and Genesis of Disaster Management

Resource Person: Dr. B. Naresh, Assistant Professor, Civil Engineering Department

Date and time of session: 23-09-2025 & 10:00 AM to 12:30 PM

Mode of delivery: PPT Presentation

Target Audience: B. Tech IInd Year Civil Engineering students

Number of students: 26

Venue: A401

Objectives of the course module:

- A consideration of technical and scientific aspects of key Disaster management terminology.
- In this, various types of disasters and their impact on environment has been studied.



Expected Learning Outcomes of the Module 1:

The student would:

- Have an exposure to interdisciplinary issues pertaining to Disaster Management
- Understand the sustainable Disaster management types
- Understand the relevance of various legal aspects involved in addressing Environmental consequences associated with disaster.



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Disaster Management – Awareness, Planning and Rehabilitation

MODULE NUMBER 2

Key Topic covered:

Contemporary Civil Engineering, Classifications of Disasters

Resource Person: Dr. B. Naresh, Assistant Professor, Civil Engineering Department

Date and time of session: 23-09-2025 & 2: 30 PM to 4:00 PM

Mode of delivery: PPT Presentation

Target Audience: B. Tech IInd Year Civil Engineering students

Number of students: 26

Venue: A401

Objectives of the course module:

- Explained Types of Natural Disasters and their causes.
- Case studies and analysis of current and historic databases including Origin of the natural disaster.

Expected Learning Outcomes of the module 2:

The student would:

- Be trained to recognise the causes of natural disaster.
- Understand the relevance of various natural disasters involved in addressing natural disaster associated with Disaster management issues.



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MODULE NUMBER 3

Key Topic covered:

Impact of Natural Disasters and Manmade disaster on human life and in the country development

Resource Person: Dr. B. Naresh, Assistant Professor, Civil Engineering Department

Date and time of session: 24-09-2025 & 10:00AM to 12:30 PM

Mode of delivery: PPT Presentation

Target Audience: B. Tech II Year Civil Engineering students

Number of students: 18

Venue: A401

Objectives of the course module:

- A consideration of Development aspect of National economy.
- Case studies and analysis of current and historic databases to be used to illustrate topics including Impact of building structures.



Expected Learning Outcomes of the Module: 3

The student would:

- Have an exposure to contaminant transport in soils and Soil- Water- Environment Interaction.
- Be trained to develop sustainable and environmentally sound solutions for geotechnical problems.
- Understand the relevance of various Fate of contaminants, Soil- Water- Environment Interaction aspects involved in addressing environmental consequences associated with geotechnical issues.



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Disaster Management – Awareness, Planning and Rehabilitation

MODULE NUMBER 4

Key Topic covered:

Disaster Management Mechanism

Resource Person: Dr. B. Naresh, Assistant Professor, Civil Engineering Department

Date and time of session: 24-09-2025 & 2: 30 PM to 4:00 PM

Mode of delivery: PPT Presentation

Target Audience: B. Tech II Year Civil Engineering students

Number of students: 18

Venue: A401

Objectives of the course module:

- Disaster Management Mechanism.
- Case studies and analysis of current and historic databases will be used to illustrate of Disaster Management Cycle - Response and Recovery.

Expected Learning Outcomes of the module 4:

The student would:

- Provide basic understanding about Knowledge about the various disasters and their impacts.
- Be trained to develop sustainable and environmentally sound solutions for Disaster Management problems.
- Understand the Concepts of risk management and crisis managements.



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MODULE NUMBER 5

Key Topic covered:

Disaster Management Mechanism

Resource Person: Dr. B. Naresh, Assistant Professor, Civil Engineering Department

Date and time of session: 25-09-2025 & 10:00 AM to 12:30 PM

Mode of delivery: PPT Presentation

Target Audience: B. Tech II Year Civil Engineering students

Number of students: 22

Venue: A401

Objectives of the course module:

- A consideration of Disaster Management Cycle.
- Case studies and analysis of Development, Prevention, Mitigation and Preparedness.



Expected Learning Outcomes of the module 5:

The student would:

- Have an exposure to interdisciplinary issues pertaining to Mitigation and Preparedness.
- Be trained to act during the disaster.
- Understand the relevance of various legal aspects involved in addressing environmental consequences associated with Disasters.



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Disaster Management – Awareness, Planning and Rehabilitation

MODULE NUMBER 6

Key Topic covered:

Capacity Building

Resource Person: Dr. B. Naresh, Assistant Professor, Civil Engineering Department

Date and time of session: 25-09-2025 & 2: 30 PM to 4:00 PM

Mode of delivery: PPT Presentation

Target Audience: B. Tech II Year Civil Engineering students

Number of students: 22

Venue: A401

Objectives of the course module:

- Concept - Structural and Non-structural Measures Capacity Assessment;.
- Case studies and analysis of Strengthening Capacity for Reducing Risk.



Expected Learning Outcomes of the module 6:

The student would:

- Have an exposure to interdisciplinary issues pertaining Knowledge about the various disasters and their impacts.
- Be trained to develop sustainable hazard and vulnerability profile of India.
- Understand the relevance of various legal aspects involved in addressing Disaster management consequences.



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Disaster Management – Awareness, Planning and Rehabilitation

MODULE NUMBER 7

Key Topic covered:

Capacity Building

Resource Person: Dr. B. Naresh, Assistant Professor, Civil Engineering Department

Date and time of session: 26-09-2025 & 10:00 AM to 12:30 PM

Mode of delivery: PPT Presentation

Target Audience: B. Tech II Year Civil Engineering students

Number of students: 22

Venue: A401

Objectives of the course module:

- A consideration of technical and scientific aspects of Strengthening Capacity for Reducing Risk.
- Case studies and analysis Counter-Disaster Resources and their utility in Disaster Management.



Expected Learning Outcomes of the module 7:

The student would:

- Have an exposure to Building a earthquake resistance buildings.
- Acquired knowledge on the various approaches of Disaster Risk Reduction (DRR).



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MODULE NUMBER 8

Key Topic covered:

Coping with Disaster and Coping Strategies

Resource Person: Dr. B. Naresh, Assistant Professor, Civil Engineering Department

Date and time of session: 26-09-2025 & 2: 30 PM to 4:00 PM

Mode of delivery: PPT Presentation

Target Audience: B. Tech II Year Civil Engineering students

Number of students: 20

Venue: A401

Objectives of the course module:

- A study on Coping Strategies; alternative adjustment processes.
- Have conceptual understanding about the disaster management phases



Expected Learning Outcomes of the module 8:

The student would:

- Have an exposure to take measures during and after Disaster.
- Understand the relevance of various Challenges.



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Disaster Management – Awareness, Planning and Rehabilitation

MODULE NUMBER 9

Key Topic covered:

Safety norms and survival kits - Mass media and disaster management

Resource Person: Dr. B. Naresh, Assistant Professor, Civil Engineering Department

Date and time of session: 27-09-2025 & 10:00 AM to 12:30 PM

Mode of delivery: PPT Presentation

Target Audience: B. Tech II Year Civil Engineering students

Number of students: 20

Venue: A401

Objectives of the course module:

- Safety norms and survival kits
- A Case studies and analysis of Mass media and disaster management

Expected Learning Outcomes of the module 9:

The student would:

- Have an exposure to perform safety measures
- Ability to understand the relationship between vulnerability, disasters, disaster prevention and risk reduction.



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MODULE NUMBER 10

Key Topic covered:

Planning for disaster management

Resource Person: Dr. B. Naresh, Assistant Professor, Civil Engineering Department

Date and time of session: 27-09-2025 & 2: 30 PM to 4:00 PM

Mode of delivery: PPT Presentation

Target Audience: B. Tech II Year Civil Engineering students

Number of students: 20

Venue: A401

Objectives of the course module:

- A study on Approaches of Disaster Risk Reduction (DRR) and the relationship between vulnerability, Disasters, disaster prevention and risk reduction
- Strategies for disaster management planning - Steps for formulating a disaster risk reduction plan.



Expected Learning Outcomes of the module 10:

- Develop ability to respond to different disasters
- Understand the relevance of various aspects of Electrical characterization of expansive soil in geoenvironmental engineering.

SUMMARY OF THE COURSE:

Students are able to analyse the type of disaster and their mitigations, understand the technical and scientific aspects of problems like Disaster management and their mitigations, and apply their knowledge to overcome problems during disaster.

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