



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

## CIVIL ENGINEERING

### ASSIGNMENT

<b>Course Name</b>	:	<b>DISASTER MANAGEMENT</b>
<b>Course Code</b>	:	A40009
<b>Class</b>	:	III B. Tech I Semester
<b>Branch</b>	:	Civil Engineering
<b>Year</b>	:	2017 – 2018
<b>Course Coordinator</b>	:	Dr. Kavita Singh Asso. Professor and Mr. K. Tarun Kumar
<b>Course Faculty</b>	:	Dr. Kavita Singh Asso. Professor and Mr. K. Tarun Kumar

#### OBJECTIVES

**The objective of the course is to impart knowledge and abilities to the students to:**

- I. Identify the major disaster types. and their environmental impacts. Develop an understanding of why and how the modern disaster management is involved with Pre-disaster and post-disaster activities.
- II. Know the key personnel or specialists related to disaster management and associate them with the types of disasters and phases in which they are useful.
- III. Recognize and develop awareness of the chronological phases of natural disaster response and refugee relief operations.
- IV. Understand how the phases of each are parallel and how they differ. Understand the key concepts of a) disaster management related to development, and b) the relationship of different disaster management activities to the appropriate disaster phase. Understand the relationship of disaster phases to each other and the linkage of activities from one phase to the next.
- V. Understand the "relief system" and the "disaster victim." Identify the organizations that are involved in natural disaster assistance.

S. No	Question	Blooms Taxonomy Level	Course Outcome
<b>UNIT-I</b>			
<b>ENVIRONMENTAL HAZARDS AND DISASTERS</b>			
1.	What is the difference between natural disaster and man-made disasters?	Understand	1,2
2	Write briefly about how hazards can become a disaster.	Remember	1,2
3	Write the concept of Environmental Hazards.	Remember	1,2
4	Discuss about chemical and physical hazards.	Remember	1,2
5	Discuss about chemical and physical hazards.	Remember	1,2
6	Write an account on human ecology and mention its application in geographical researches.	Remember	1,2
7	What is meant by human ecology? How it is related to disasters.	Understand	1,2
8	Write down the types of environmental hazards and disasters?	Understand	1,2
9	Explain, how the occurrence of EL NINO events affects global climate?	Understand	1,2
10	Describe natural disaster and list out the natural disaster	Understand	1,5
<b>UNIT-II</b>			
<b>TYPES OF ENVIRONMENTAL HAZARDS AND DISASTERS</b>			
1	Write a brief note on floods as a serious environmental hazard.	Remember	2,4
2	What will be the consequences of drought when it affects an area very effectively?	Remember	2
3	Write a brief note on psychological and social dimensions of disaster	Understand	1,2
4	Describe civil disorder	Remember	2,3
5	What are the types of man-Induced hazards discuss?	Understand	2,3
6	What is earthquake hazard? What causes earthquake.	Remember	2,3
7	Write short notes on: a) cold waves b) Heat waves c) Soil Erosion	Remember	2,3
8	Draw a flow chart of planetary and extra planetary hazard and explain.	Understand	1,2
9	What are floods? What are the harmful effects of floods.	Understand	2,3
10	Write a note on global atmospheric changes	Remember	2,3

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<b>UNIT-III</b>			
<b>ENDOGENOUS HAZARDS</b>			
1	Write a short note on earthquakes. What are its causes?	Understand	4
2	What are the mitigation measures to be taken at the time of earthquakes?	Remember	4
3	Write a note on man-made landslides. State what are the mitigation measures at the time of land-slides.	Understand	4
4	Demonstrate the hazardous effects of volcanic eruptions	Understand	4
5	Explain briefly about the effects of earthquakes on the environment.	Remember	3,4
6	What are the different types of disaster ? write short note.	Understand	3,4
7	What are the causes and hazardous effects of Volcanic eruptions?	Understand	3,4
8	Write down the different types of atmospheric hazards.	Understand	3,4
9	Comment on the distribution of earthquakes across the globe.	Remember	4
10.	Identify the earthquake hazards in India and explain	Understand	4
<b>UNIT-IV</b>			
<b>EXOGENOUS HAZARDS AND DISASTERS</b>			
1	Write a note on Bhopal on gas tragedy.	Understand	5,6
2	What are the main causes of nuclear hazards?	Remember	5,6
3	Write an account on the genetic disorders caused by radiation pollution.	Remember	5,6
4	Write a short note on population explosion and its control.	Remember	5,6
5	Write briefly about the steps that need to be taken as part of an overall plan for achieving global population stabilization.	Remember	5,6
6	Write a brief note on soil erosion and its conservation.	Understand	6
7	What is sedimentation? What are the different aspects in this process?	Remember	6
8	Suggest the best management practices of soil erosion and sedimentation.	Understand	5
9	Discuss the flood-prone regions in India.	Remember	5,6
10	What causes lightning and hailstorms? Explain.	Remember	5,6

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<b>UNIT-V</b>			
<b>EMERGENCY APPROACHES IN DISASTER MANAGEMENT</b>			
1	Enlist the different stages of disaster management. Write in detail about pre-disaster stage.	Remember	6,7
2	What is environmental impact assessment?	Understand	6
3	Write short notes on mitigation planning.	Remember	7
4	State the guidelines for mitigation of disasters.	Remember	7
5	What is cyclone? How can people be warned of it beforehand? Give an example from a real incident when warning against a cyclone helped the people.	Understand	4,5
6	Discuss the various measures that should be taken for disaster management and prevention	Remember	7
7	Describe the structural mitigations and non- structural mitigations that should be restored to in case of floods.	Remember	7
8	How does the community of a village play the most important role in times of disaster as 'first responder'?	Understand	6,7
9	How can search rescue team assist a village in times of a hazards?	Understand	7
10	Why should every village have a disaster management committee? Write a short notes.	Remember	6,7

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