

Ch. Ranbir Singh State Institute of Engineering & Technology, Jhajjar
Department of Mechanical Engineering
IV Yr. 8th Semester (Mechanical Engineering)

LESSON PLAN

Program : **B. Tech**
Year & Sem. : **IV / 8**
Course No : **OEC-CE-450 G**
Course Title : **Disaster Management**
Max Marks : **75**
No. of Total Lecture : **40**
Schedule : **3L**
Lecturer : **Dr. Vinay Singh**

Recommended Books:

1. **Disaster Management** – JP SINGHAL
2. **Disaster Science & Management** – Tushar Bhattacharya

Lesson Plan:

Lect. No(s)	Topics to be covered
1.	Terminology
2	Global and Indian Scenario
3	Role of Engineer, Importance of study in human life
4	Long term effects of disaster
5	Geological mass movement and land disasters
6	Atmospheric disasters and disaster mitigation
7	Natural disaster
8	Flood, drought
9	Cloud burst, earthquake
10	Landslide, Avalanche
11	Volcanic eruptions, Mudflow
12	Cyclones, Storm
13	Storm Surge
14	Climate change, Global warming
15	Sea level rise, Ozone depletion
16	Man made disasters
17	Chemical , industrial
18	Nuclear and fire hazards
19	Role of growing population and subsequent industrialization

20	Urbanisation and changing lifestyle of human beings
21	Case Studies: Damage profile analysis
22	Uttarkashi, Bhuj, Latur earthquakes
23	Kerala floods, Fani and Amphan cyclone
24	Bihar Floods, COVID 19
25	Importance of public awareness, Preparation and execution
26	Emergency management programme
27	Scope and responsibilities of NIDM
28	NDMA
29	Applications of GIS, Remote sensing
30	GPS in Disaster management
31	Revision
32	Revision
33	Revision
34	Revision
35	Revision
36	Revision
37	Revision
38	Revision
39	Revision
40	Revision
41	Revision
42	Revision

(Dr. Vinay Singh)
Guest Faculty
Department of ME
CRSSIET, Jhajjar