

**(MC/7-T) DISASTER PREPAREDNESS & PLANNING**

<b>Week</b>	<b>Lecture No.</b>	<b>Topic</b>	<b>Remarks</b>
1	1	Introduction to Disasters: Concepts and Definitions (disaster, hazard, vulnerability, risk, capacity, impact, prevention, mitigation)	
	2	Classification of Disasters: Natural Disasters (floods, droughts, cyclones, volcanoes, earthquakes, tsunamis)	
	3	Natural Disasters (landslides, coastal erosion, soil erosion, forest fires)	
2	4	Man-made Disasters (industrial pollution, artificial flooding, nuclear radiation, chemicals spills)	
	5	Man-made Disasters (transportation accidents, terrorist strikes)	
	6	Hazard and Vulnerability Profile of India	
3	7	Hazard and Vulnerability Profile of Mountain and Coastal Areas	
	8	Ecological Fragility and Disasters	
	9	Disaster Impacts: Environmental	
4	10	Disaster Impacts: Physical and Social	
	11	Disaster Impacts: Ecological and Economic	
	12	Disaster Impacts: Political and Health	
5	13	Psycho-social Issues and Demographic Aspects (gender, age, special needs)	
	14	Hazard Locations and Global Disaster Trends	
	15	Climate Change and Urban Disasters	
6	16	Disaster Management Cycle: Phases (prevention, mitigation, preparedness, relief, recovery)	
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	18	Structural and Non-structural Measures for Disaster Risk Reduction	
7	19	Minor Test	
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8	22	Risk Analysis, Vulnerability and Capacity Assessment	
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	24	Early Warning Systems	
9	25	Post-disaster Environmental Response (water, sanitation, food safety)	
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	27	Post-disaster Environmental Response (waste management, disease control, security, communications)	
10	28	Post-disaster Environmental Response (waste management, disease control, security, communications)	
	29	Roles and Responsibilities of Government, Community, Local Institutions	
	30	Roles and Responsibilities of NGOs and Other Stakeholders	
11	31	Policies and Legislation for Disaster Risk Reduction	
	32	DRR Programs in India and Activities of National Disaster Management Authority	
	33	Factors Affecting Vulnerability: Impact of Developmental Projects	
12	34	Factors Affecting Vulnerability: Environmental Modifications (dams, land-use changes, urbanization)	
	35	Sustainable and Environmentally Friendly Recovery	
	36	Reconstruction and Development Methods	
13	37	Impact of developmental projects and environmental modifications: Dams	
	38	Impact of developmental projects and environmental modifications: Land-Use	
	39	Impact of developmental projects and environmental modifications: Urbanization	
14	40	Minor Test	
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15	43	Case Study: A Major Natural Disaster (e.g., Uttarakhand Floods, Gujarat Earthquake)	
	44	Case Study: A Major Man-made Disaster (e.g., Bhopal Gas Tragedy, Chernobyl Disaster)	
	45	Student Presentations: Research Projects on Specific Disaster Topics	