LESSON PLAN

Discipline:

Civil Engg. ,UGMIT Rayagada 6^{TH}

demester:

Subject:

Disaster Management (Th-4)

Class allotted:

4P/Week

Session:

2024 (5)

Week	Class Day	Theory	Remarks
1	1-4	 Introduction 1.1 Definition of hazards, disasters. Explain the difference between hazard and disaster. 1.2 Concept of risk and vulnerability. Risk reduction: preparedness and mitigation. 1.3 Disaster management cycle 1.4 Personal and community awareness. 1.5 Types of disasters, earthquake, Tsunami, Landslide, cyclone, flood, drought, forest fire, Chemical and industrial accidents. 	
2	5-8	2 Earthquakes. 2.1 Definition and concept ,intensity, Richter's scale. 2.2 Element of risk. 2.3 Hazard Zones in India. 2.4 Typical effects.	1
3	9-12	2.5 Main mitigation strategies, safe Engineering practice, Indian Standard code and enforcement Bye-Laws. 3 Tsunami. 3.1 Definition and concept. 3.2 Onset, Type and Cases. 3.3 Warming. 3.4 Elements at risk.	
4	13-16	3.5 Typical effects, Physical damage, Environmental Damage, Casualties and Public health. 3.6 Specific Preparedness: Hazard Mapping, Early warning systems, Community preparedness. 3.7 Main mitigation strategies: Site planning and land management, Engineering structures. Flood management. 4 Landslides. 4.1 Definition, concept. 4.2 Onset time and warning. 4.3 Causes. 4.4 Elements at risk.	
5	17-20	 4.5 Hazard zones and Indian landslides. 4.6 Typical effects: Physical damage, casualties. 4.7 Main mitigation strategies: Hazard mapping, Landslide practice, retaining walls, Surface drainage control works, Engineering structures. 4.8 Community based mitigation. 	
5	21-24	5 Cyclones. 5.1 Definition, concept. 5.2 Onset type, Warning. 5.3 Elements at risk. 5.4 Typical effects. 5.5 Indian Hazard Zones.	

7	25-28	5.6 Main mitigation strategies: Hazard mapping, Land use control,
		Engineering Structures, Flood management, improving vegetation
		cover.
		5.7 Community based mitigation
	1	6. Floods.
	1	6.1 Definition, concept, Onset type.
	1	6.2 Warning.
		6.3 Elements at risk.
8	29-32	6.4 Hazard zones and Indian floods.
		6.5 Typical officers plant 100ds.
		6.5 Typical effects: Physical damage, Casualties and Public health, Crops and flood.
		1
		6.6 Main mitigation strategies: Mapping of the flood prone areas,
9	33-36	- 1 Sommunity based mitigation
		/ Droughts.
	1	7.1 Definition, concept.
		7.2 Onset type and warning.
		7.5 Elements at risk
		7.4 Typical effects.
0	37-40	7.5 Main mitigation strategies: drought monitoring
		water supply augmentation and conservation.
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		7.6 Drought Planning.
		8 Forest Fire.
		8.1 Definition and concept.
		0.4 FOREST tire damages := 1-11
		o.o Operational fire management
		organizations.
1	41-44	8.4 Community involvement.
	41-44	1 0.5 I WILL DOLICIES CONCOUNTING C
		6.0 The needs of fire management
		Other type of Hazards and dispersor
	J	I TO CHEMICAL AND INC.
2	45-48	_ Uescription effects D
	43-48	9.2 Epidemic: Onset type, warning, causes and effects, risk reduction
		measures.
	1	9.3 Heat waves: definition, dangers and effects, Forecasts and
	1	warning, awareness.
		10 Policy, Planning and Institutions for disaster
	- 1	mitigation, for disaster
		10.1 Role of policy makers in disaster risk reduction,
	10.55	course for specific action.
	49-52	10.2 Institutional arrangement :
		Level, District and Block level.
		10.3 Major institutions in National and St. 1
	53-56	
		Management at Clab.
	1	11.1 Overview of Disaster Risk Management (DRM)
		I IECONOlogies in DDM
		11.2 Earth observation
	1	application in disaster management.
	1	11.3 Remote sensing and
		11.3 Remote sensing and geospatial intelligence for
	57-60	11.4 Application of remote sensing in hydro metrological,
		geological and remote sensing in hydro metrological
		A STATE OF THE PARTY OF THE PAR

197 T	environmental disaster. 11.5 International systems for disaster risk management:- UN-SPIDER,	
	International Charter for Space and Major Disasters, Copernicus Emergency Management Service & Sentinel Missions.	

Signature of Faculty:

13/1/24

Signature of HOD:

(AN) 22 Yam 13/1/24