

Discipline: Civil	Semester: 6th	
Subject: Disaster Management Th-5	No. of days/per week Class Allotted: 4	Name of the teaching faculty: Adyashree Sahoo
Week	Class/Day	Theory Topics
1 st	1 st	Definition of hazards, disasters. Explain the difference between hazard and disaster
	2 nd	Concept of risk and vulnerability. Risk reduction: preparedness and mitigation
	3 rd	Disaster management cycle, Personal and community awareness
	4 th	Types of disasters, earthquake, Tsunami, Landslide, cyclone ,flood,drought,forest fire, Chemical and industrial accidents.
2 nd	1 st	Earthquakes,definition and concept ,intensity, Richter's scale
	2 nd	Element of risk, Hazard Zones in India
	3 rd	Typical effects
	4 th	Main mitigation strategies, safe Engineering practice, Indian Standard code and enforcement Bye-Laws
3 rd	1 st	Tsunami, Definition concept, Onset, type and cases, Warming, Elements at risk.
	2 nd	Typical effects :Physical damage, environmental damage ,casualties and Public health

	3 rd	Specific preparedness: Hazard mapping, early warning systems, Community preparedness
	4 th	Main mitigation strategies: Site planning and land management, Engineering Structures, Flood management.
4 th	1 st	Landslides, Definition, concept, Onset time and warning, Causes, Elements at risk.
	2 nd	Hazard zones and Indian landslides,
	3 rd	Main mitigation strategies: Hazard mapping, Landslide practice, retaining walls, Surface drainage control works
	4 th	Engineering structures, Community based mitigation.
5 th	1 st	Cyclones, Definition, concept ,Onset type, Warning
	2 nd	Elements at risk, Typical effects, Indian Hazard Zones
	3 rd	Main mitigation strategies: Hazard mapping, Land use control , Engineering Structures, Flood management
	4 th	improving vegetation cover, community based mitigation
6 th	1 st	Floods, Definition, concept, Onset type
	2 nd	Elements at risk, Hazard zones and Indian floods.
	3 rd	Typical effects: Physical damage, Casualties and Public health ,Crops and flood
	4 th	Main mitigation strategies: Mapping of the flood prone areas, land use control,

		Flood control and management, Community based mitigation
7 th	1 st	Forest Fire, Definition and concept, Forest fire damages in India
	2 nd	Operational fire management systems and organizations
	3 rd	Community involvement. Public policies concerning fire
	4 th	the needs of fire management
8 th	1 st	Other type of Hazards and disasters
	2 nd	Chemical and Industrial disasters: brief description, effects, preparedness
	3 rd	Epidemic: Onset type, warning, causes and effects, risk reduction measures
	4 th	Heat waves: definition, dangers and effects, Forecasts and warning, awareness
9 th	1 st	Policy, Planning and Institutions for disaster mitigation
	2 nd	Role of policy makers in disaster risk reduction
	3 rd	Role of policy makers in disaster risk reduction
	4 th	Role of policy makers in disaster risk reduction
10 th	1 st	course for specific action
	2 nd	course for specific action
	3 rd	course for specific action

	4 th	course for specific action
11 th	1 st	course for specific action
	2 nd	course for specific action
	3 rd	Institutional arrangement in India: Central level
	4 th	Institutional arrangement in India: Central level
12 th	1 st	Institutional arrangement in India: Central level
	2 nd	Institutional arrangement in India: Central level
	3 rd	Institutional arrangement in India: state level
	4 th	Institutional arrangement in India: state level
13 th	1 st	Institutional arrangement in India: state level
	2 nd	Institutional arrangement in India: state level
	3 rd	Institutional arrangement in India: district level
	4 th	Institutional arrangement in India: block level
14 th	1 st	Institutional arrangement in India: block level
	2 nd	Institutional arrangement in India: block level
	3 rd	Institutional arrangement in India: block level
	4 th	Institutional arrangement in India: block level

15 th	1 st	Major institutions in National and State level
	2 nd	Major institutions in National and State level
	3 rd	Major institutions in National and State level
	4 th	Major institutions in National and State level
16 th	1 st	Revision
	2 nd	Revision
	3 rd	Revision
	4 th	Revision
17 th	1 st	Revision
	2 nd	Revision
	3 rd	Revision
	4 th	Revision