

LESSON PLAN-SUMMER 2023
SWAMI VIVEKANANDA SCHOOL OF ENGG & TECH, BBSR

Discipline- CIVIL DEPARTMENT	Semester-6TH	Name of teaching faculty- <i>Madhusmita Sura.</i>
Subject- DM	No class allotted/ per week -6	SEM From date- 14/02/2023 to 25/05/2023 No of weeks- 17
Week	Class day	Theory Topics
3RD	14-02-2023	1. Introduction
	15-02-2023	disaster.
	16-02-2023	1.2 Concept of risk and vulnerability. Risk reduction: preparedness and mitigation.
	17-02-2023	1.3 Disaster management cycle.
4TH	20-02-2023	1.4 Personal and community awareness
	21-02-2023	1.5 Types of disasters, earthquake, Tsunami, Landslide, cyclone ,flood,drought,forest fire, Chemical and industrial accidents.
	22-02-2023	2. Earthquakes.
	23-02-2023	2.1 Definition and concept ,intensity, Richter's scale.
	24-02-2023	2.2 Element of risk.
	25-02-2023	2.3 Hazard Zones in India.
5TH	27-02-2023	2.4 Typical effects
	28-02-2023	2.4 Typical effects
1ST	01-03-2023	2.5 Main mitigation strategies, safe Engineering practice, Indian Standard code and enforcement Bye-Laws.
	02-03-2023	3. Tsunami.
	03-03-2023	3.1 Definition and concept.
	04-03-2023	3.2 Onset, Type and Cases.
2ND	06-03-2023	3.3 Warming
	07-03-2023	3.4 Elements at risk.
	09-03-2023	3.5 Typical effects, Physical damage, Environmental Damage, Casualties and Public health.
	10-03-2023	3.6 Specific Preparedness: Hazard Mapping, Early warning systems, Community preparedness.
	11-03-2023	3.7 Main mitigation strategies: Site planning and land management, Engineering structures. Flood management.
3RD	13-03-2023	4. Landslides.
	14-03-2023	4.1 Definition, concept.
	15-03-2023	4.2 Onset time and warning.
	16-03-2023	4.3 Causes.
	17-03-2023	4.4 Elements at risk.
	18-03-2023	4.5 Hazard zones and Indian landslides.
4TH	20-03-2023	4.6 Typical effects: Physical damage, casualties.
	21-03-2023	4.7 Main mitigation strategies: Hazard mapping, Landslide practice, retaining walls, Surface drainage control works, Engineering structures.
	22-03-2023	4.8 Community based mitigation.
	23-03-2023	5. Cyclones.
	24-03-2023	5.1 Definition, concept.
	25-03-2023	5.2 Onset type, Warning.
	27-03-2023	5.3 Elements at risk.

5TH	28-03-2023	5.4 Typical effects.
	29-03-2023	5.5 Indian Hazard Zones.
	30-03-2023	5.6 Main mitigation strategies: Hazard mapping, Land use control, Engineering Structures, Flood management, improving vegetation cover.
	31-03-2023	5.7 Community based mitigation.
1ST	01-04-2023	6. Floods.
2ND	03-04-2023	6.1 Definition, concept, Onset type.
	04-04-2023	6.2 Warning.
	05-04-2023	6.3 Elements at risk.
	06-04-2023	6.4 Hazard zones and Indian floods.
	07-04-2023	6.5 Typical effects: Physical damage, Casualties and Public health, Crops and flood.
	08-04-2023	6.6 Main mitigation strategies: Mapping of the flood prone areas, land use control, Flood control and management.
3RD	10-04-2023	6.7 Community based mitigation
	11-04-2023	7. Droughts.
	12-04-2023	7.1 Definition, concept.
	13-04-2023	7.2 Onset type and warning.
	14-04-2023	7.3 Elements at risk.
	15-04-2023	7.4 Typical effects.
4TH	17-04-2023	INTERNAL ASSESSMENT
	18-04-2023	INTERNAL ASSESSMENT
	19-04-2023	7.5 Main mitigation strategies: drought monitoring, water supply augmentation and conservation.
	20-04-2023	7.6 Drought Planning.
	21-04-2023	8. Forest Fire.
	22-04-2023	8.1 Definition and concept.
5TH	24-04-2023	8.2 Forest fire damages in India.
	25-04-2023	8.3 Operational fire management systems and organizations.
	26-04-2023	8.4 Community involvement.
	27-04-2023	8.5 Public policies concerning fire.
	28-04-2023	8.6 The needs of fire management.
	29-04-2023	9. Other type of Hazards and disasters
1ST	01-05-2023	9.1 Chemical and Industrial disasters: brief description, effects, Preparedness.
	02-05-2023	9.1 Chemical and Industrial disasters: brief description, effects, Preparedness.
	03-05-2023	9.2 Epidemic: Onset type, warning, causes and effects, risk reduction measures.
	04-05-2023	9.3 Heat waves: definition, dangers and effects, Forecasts and warning,
	05-05-2023	9.3 Heat waves: definition, dangers and effects, Forecasts and warning, awareness.
	06-05-2023	10. Policy, Planning and Institutions for disaster mitigation
2ND	08-05-2023	10.1 Role of policy makers in disaster risk reduction, course for specific action.
	09-05-2023	10.2 Institutional arrangement in India: Central level, State Level, District and
	10-05-2023	10.3 Major institutions in National and State level.
	11-05-2023	10.3 Major institutions in National and State level.

12-05-2023

13-05-2023

15-05-2023

16-05-2023

17-05-2023

18-05-2023

4TH

12-05-2023	11. Geospatial Application for Disaster Risk Management at Global and Local level
13-05-2023	11.1 Overview of Disaster Risk Management (DRM) and relevance of geospatial technologies in DRM
15-05-2023	11.2 Earth observation technologies and their application in disaster management.
16-05-2023	11.3 Remote sensing and geospatial intelligence for disaster management.
17-05-2023	11.3 Remote sensing and geospatial intelligence for disaster management.
18-05-2023	11.4 Application of remote sensing in hydro metrological, geological and environmental disaster.
19-05-2023	11.5 International systems for disaster risk management:- UN-SPIDER, International Charter for Space and Major Disasters, Copernicus Emergency Management Service & Sentinel Missions
20-05-2023	11.5 International systems for disaster risk management:- UN-SPIDER, International Charter for Space and Major Disasters, Copernicus Emergency Management Service & Sentinel Missions
4TH 22-05-2023	11.5 International systems for disaster risk management:- UN-SPIDER, International Charter for Space and Major Disasters, Copernicus Emergency Management Service & Sentinel Missions

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