

# GOVERNMENT POLYTECHNIC, SAMBALPUR (RENGALI)

NAME OF THE FACULTY: Smt. Shushree Sangita Patel ( Lecturer), Civil Engineering

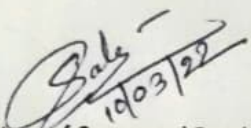
LESSON PLAN OF TH4 DISASTER MANAGEMENT FOR 6TH SEM, CIVIL ENGG, SUMMER 2022 W.E.F.

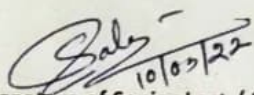
10.03.2022

WEEK NO.	DATE	TOPIC	PERIODS ASSIGNED PER TOPIC	PERIODS AVAILABLE PER WEEK
W-1	10.03.22 TO 12.03.22	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.	4	1
W-2	14.03.22 TO 19.03.22	1.5- Types of disasters, earthquake, Tsunami, Landslide, cyclone ,flood,drought,forest fire, Chemical and industrial accidents.		3
W-3	21.03.22 TO 26.03.22			1
W-4	28.03.22 TO 02.04.22	<b>2.0-Earthquakes.</b> 2.1- definition and concept ,intensity, Richter's scale. 2.2- Element of risk. 2.3- Hazard Zones in India. 2.4- Typical effects. 2.5- Main mitigation strategies, safe Engineering practice, Indian Standard code and enforcement Bye-Laws.	6	4
		<b>3.0- Tsunami.</b> 3.1- Definition concept. 3.2- Onset, type and cases. 3.3- Warming. 3.4- Elements at risk.		2
W-5	04.04.22 TO 09.04.22	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.	5	3
		<b>4.0- Landslides.</b> 4.1-Definition, concept. 4.2- Onset time and warning. 4.3- Causes. 4.4-Elements at risk. 4.5-Hazard zones and Indian landslides.		1
W-6	18.04.22 TO 23.04.22	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	4

W-7	11.04.22 TO 16.04.22	<b>5.0-Cyclones.</b> 5.1-Definition, concept. 5.2-Onset type, Warning. 5.3-Elements at risk. 5.4-Typical effects. 5.5-Indian Hazard Zones. 5.6- Main mitigation strategies: Hazard mapping, Land use control , Engineering Structures, Flood management, improving vegetation cover. 5.7- community based mitigation.	6	1
W-8	25.04.22 TO 30.04.22			1
W-9	02.05.22 TO 07.05.22	<b>6.0- Floods.</b> 6.1- Definition, concept, Onset type. 6.2- Warning. 6.3- Elements at risk. 6.4- Hazard zones and Indian floods. 6.5- Typical effects: Physical damage, Casualties and Public health ,Crops and flood. 6.6- Main mitigation strategies: Mapping of the flood prone areas, land use control, Flood control and management. 6.7- Community based mitigation.		3
W-10	09.05.22 TO 14.05.22	<b>7.0- Droughts.</b> 7.1- Definition, concept. 7.2- Onset type and warning. 7.3- Elements at risk. 7.4- Typical effects. 7.5- Main mitigation strategies: drought monitoring, water supply augmentation and conservation. 7.6- Drought Planning.	6	2
			5	2+2 EXTRA
W-11	16.05.22 TO 21.05.22	<b>8.0- Forest Fire.</b> 8.1- Definition and concept. 8.2- Forest fire damages in India. 8.3- Operational fire management systems and organizations. 8.4- Community involvement. 8.5-Public policies concerning fire. 8.6- the needs of fire management.	5	1
				2
				1+2 EXTRA
W-12	23.05.22 TO 28.05.22	<b>9.0- Other type of Hazards and disasters.</b> 9.1- Chemical and Industrial disasters: brief description, effects, preparedness. 9.2- Epidemic: Onset type, warning,causes and effects, risk reduction measures. 9.3- Heat waves: definition, dangers and effects, Forecasts and warning, awareness.	5	2
				2+1 EXTRA
				1 EXTRA

W-13	30.05.22 TO 04.06.22	10.0- Policy, Planning and Institutions for disaster mitigation. 10.1-Role of policy makers in disaster risk reduction, course for specific action. 10.2-Institutional arrangement in India: Central level, State Level, District and Block level. 10.3- Major institutions in National and State level.	5	4
		<b>Geospatial Application for Disaster Risk Management at Global and Local level</b>		2 EXTRA
W-14	06.06.22 TO 10.06.22	11.1 Overview of Disaster Risk Management (DRM) and relevance of geospatial technologies in DRM 11.2 Earth observation technologies and their application in disaster	8	4+2 EXTRA
W-15	10.06.22 ONWARDS	<b>REVISION AND DISCUSS ON PREVIOUS YEAR QUESTION PAPER</b>		

  
 Signature of Concerned Faculty

  
 C/S Signature of Senior Lect./ HOD (P/c)