Theory-05

LESSON PLAN

Discipline: Civil Engg. ,UGMIT Rayagada
Semester: 6TH
Name of the Teaching Faculty:
Subject: Disaster Management (CET605)
No of Days/week class allotted: 04
Session: 2019-20

Week	Class Day	Theory/Practical Topics	Remarks
1	1-4	1.0 . Introduction 1.1. Definition of hazards , disaster and explain. 1.2 . Concept of risk and variability. 1.3. Disaster management cycle. 1.4. Personal and Community awareness. 1.5. Type of disaster ,Earthquake, tsunami.	
2	5-8	2.0. Earthquake. 2.1. Definition and concept, Intensity. Richter's scale. 2.2. Element of risk. 2.3. Hazard zones in India. 2.4. Typical effect. 2.5. Main mitigation strategy safe Engg. Practice.	
3	9-12	3.0. Tsunami. 3.1. Definition concept. 3.2. Onset, type and cases. 3.3. Warming. 3.4. Element at risk. 3.5. Typical effects ; Physical damage. Environmental damage, Causalities and public health. 3.6. Specific Preparedness; Hazard mapping, early warning system ,Community preparedness. 3.7. Main mitigation strategies ; Site planning and Land management ,Engg. Structures ,Flood management.	
4	13-16	4.0. LANDSLIDES. 4.1. 4.1. Definition concept. 4.2 . Onset time and warning. 4.3. Causes. 4.4. Elements at risk. 4.5. Hazard zones and Indian landsides. 4.6. Typical effects; Physical damage, casualties 4.7.Main mitigation strategies; Hazard mapping ,Landslide practice. Retaining walls, Surface damage control works, Engg. Structure	

		4.8. Community based mitigation..	
5	17-20	5.0. CYCLONES. 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, Engg. Structures, Flood management. Improving vegetation cover. 5.7. Community based mitigation.	
6	21-24	6.0. FLOODS. 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 prne areas, Land use control, flood control and management. 6.7. Community based mitigation.	
7	25-28	7.0. DROUGHTS. 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.	
8	29-32	8.0. FOREST FIRE. 8.1. Definition, and concept 8.2. Forest fire damages in India. 8.3Operational fire management system and organizations. 8.4. Community involvement . 8.5. Public policies concerning fire. 8.6.The needs of fire management.	
9	33-36	9.0. OTHER TYPE OF HAZARDS AND DISASTERS. 9.1. Chemical and industrial disasters ; Brief description ,effects , preparedness. 9.2. Epidemic ; Onset type ,warming, causes and effects, risk Reduction measurement. 9.3. Heat waves ; Definition , Dangers and effects, forecasts and warming, awareness.	
10	37-60	10.0 ; POLICY,PLANNING AND INSTITUTIONS FOR DISASTER MITIGATION. 10.1. Role of policy markers 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 Institution in National and State level.	

Signature of Faculty :-