

DISASTER MANGEMENT

II Semester: MBA								
Course Code	Category	Hours / Week			Credits	Maximum Marks		
CMBB24	Open Elective-I	L	T	P	C	CIA	SEE	Total
		4	-	-	4	30	70	100
Contact Classes: 60		Tutorial Classes: Nil		Practical Classes: Nil			Total Classes: 60	
<p>OBJECTIVES:</p> <p>The course should enable the students to:</p> <ol style="list-style-type: none"> I. Identify the major disaster types and their environmental impacts. Develop an understanding of why and how the modern disaster management is involved with Pre-disaster and post-disaster activities. II. Know the key personnel or specialists related to disaster management and associate them with the types of disasters and phases in which they are useful. III. Recognize and develop awareness of the chronological phases of natural disaster response and refugee relief operations. <p>COURSE OUTCOMES(CO'S):</p> <ol style="list-style-type: none"> 1. Understand the meaning and concept of environmental hazard ED and ES. 2. Discuss different approaches and relation with human ecology land scope approach, ecosystem approach, and perception approach. 3. Explain natural and man-indexed hazards and disasters. 4. Interpret different types of planetary hazards and disaster. 5. Describe the distribution of volcanoes causes and effects of volcanic eruption and also environmental impacts of volcanic eruption. 6. Identify the causes and hazards effects of earthquakes and distribution of earthquakes. 7. Demonstrate of human adjustment perception and mitigation of earthquake. 8. Learn about harmful effects of infrequent events: Cyclones, Lightning, Hailstorms, and Cyclones. 9. Understand Emergency Stage importance and Post Disaster stage- Rehabilitation phase. 10. Explain the Biological hazards/ disasters: Population Explosion. 								
UNIT-I		ENVIRONMENTAL HAZARDS & DISASTERS					Classes: 12	
<p>Meaning of Environmental hazards, Environmental Disasters and Environmental stress. Concept of Environmental Hazards Environmental stress and Environmental Disasters Different approaches and relation with human Ecology, Landscape Approach, Ecosystem Approach, Perception approach, Human Ecology and its application in geographical researches.</p>								
UNIT-II		TYPES OF ENVIRONMENTAL HAZARDS & DISASTERS					Classes: 11	
<p>Natural hazards and Disasters, Man indexed hazards and Disasters, Natural Hazards, Planetary Hazards / Disasters, Extra Planetary Hazards / disasters, Planetary Hazards, Endogenous Hazards, Exogenous Hazards.</p>								

UNIT-III	ENDOGENOUS HAZARDS	Classes: 12
<p>Endogenous Hazards , volcanic eruption, Earthquakes, landslides, Volcanic Hazards / Disasters, Causes and distribution of volcanoes, hazardous effects of volcanic eruptions, Environmental impacts of volcanic eruptions. Earthquake Hazards / disasters, Causes of Earthquakes ,Distribution of earthquakes , Hazardous effects of earthquakes, Earthquake Hazards in India, Human adjustment, perception and mitigation of Earthquake.</p>		
UNIT-IV	EXOGENOUS HAZARDS/ DISASTERS	Classes: 13
<p>Exogenous hazards / disasters, Infrequent events, Cumulative atmospheric hazards / disasters Infrequent events: Cyclones, Lightning, Hailstorms; Cyclones: Tropical cyclones and Local storms, Destruction by tropical cyclones and local storms (causes, distribution human adjustment, perception and mitigation) Cumulative atmospheric hazards/ disasters :- Floods, Droughts, Cold waves, Heal waves Floods :- Causes of floods, Flood hazards India, Flood control measures (Human adjustment, perception and mitigation) Droughts :- Impacts of droughts, drought hazards in India, Drought control measures, Extra Planetary Hazards / Disasters - man induced Hazards / Disasters - Physical hazards / Disasters - Soil erosion; Soil Erosion: Mechanics and forms of Soil Erosion, Factors 7 causes of Soil Erosion, Conservation measures of Soil Erosion; Chemical hazards / disasters: Release of toxic chemicals, nuclear explosion, Sedimentation processes Sedimentation processes: Global Sedimentation problems, Regional Sedimentation problems, Sedimentation and Environmental problems, Corrective measures of Erosion and Sedimentation.</p>		
UNIT-V	EMERGING APPROACHES IN DISASTER MANAGEMENT	Classes: 12
<p>Emerging approaches in Disaster Management - Three stages 1. Pre-disaster Stage (preparedness) 2. Emergency Stage 3. Post Disaster stage – Rehabilitation</p>		
Text Books:		
<ol style="list-style-type: none"> 1. Donald Hyndman and David Hyndman, “Natural Hazards and Disasters”, Cengage Learning, 5th Edition, 2016. 2. R. B. Singh, “Environmental Geography”, Heritage Publishers, 2nd Edition, 1990. 		
Reference Books:		
<ol style="list-style-type: none"> 1. R.B.Singh (Ed) Environmental Geography, Heritage Publishers New Delhi,1990 2. Savinder Singh Environmental Geography, Prayag Pustak Bhawan, 1997 3. Kates,B.I & White, G.F The Environment as Hazards, oxford, New York, 1978 4. R.B. Singh (Ed) Disaster Management, Rawat Publication, New Delhi, 2000 		
Web References:		
<ol style="list-style-type: none"> 1. https://nidm.gov.in/PDF/pubs/ACTIVITY%20BOOK%20DM.pdf 2. http://download.nos.org/333courseE/12.pdf 		
E-Text Books:		
<ol style="list-style-type: none"> 1. https://school.eckovation.com/disaster-management-short-notes/ 2. https://lecturenotes.in/subject/424/disaster-management-dm 3. https://www.slideshare.net/hemantsonawane4/disaster-management-project 		