DISASTER MANAGEMENT AND PREPAREDNESS

Course Code	20CE2701A	Year	IV	Semester(s)	I
Course Category	Open Elective- III	Branch	Common to All	Course Type	Theory
Credits	3	L-T-P	3-0-0	Prerequisites	20MC1301 - Environmental Science
Continuous Internal Evaluation:	30	Semester End Evaluation:	70	Total Marks:	100

Cours	e Out	comes												
Upon successful completion of the course, the student will be able to:														
CO1	Den	Demonstrate basic terminology and classify types of disasters										L3		
CO2	Out	Outline the impacts of disaster									L2			
CO3	Fan	Familiarize Disaster management activities and phases									L2			
CO4		Explain the Components of disaster relief, disaster management policies									L3			
CO5		Develop the responsibilities towards society after disaster									L3			
	Contribution of Course Outcomes towards achievement of Program Outcomes								•					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2					2			2				2
CO2	2	2					2			2				2
CO3	3	3					2			2				2
CO4	2	2					2			2				2
CO5	2	2					2			2				2
Avg.	2	2					2			2				2
1- Low 2-Medium 3-High														
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UNIT-	INTRODUCTION & DISASTERS CLASSIFICATION Concepts and definitions: disaster, hazard, vulnerability, resilience, risk severity, frequency and details, capacity, impact, prevention, mitigation Disasters classification; natural disasters (floods, draught, cyclone volcanoes, earthquakes, tsunami, landslides, forest fires.); manmad disasters (industrial pollution, nuclear radiation, chemical spills, terroristrikes); hazard and vulnerability profile of India.							ation. ones, made	CO1					
UNIT	-2 D p sj	DISASTER IMPACTS Disaster impacts (environmental, physical, social, ecological, economical, political); health, psycho-social issues; demographic aspects (gender, age, special needs); hazard locations; global and national disaster trends; climate change and urban disasters								CO2				
UNIT	-3 D p ri	DISASTER MITIGATION AND PREPAREDNESS Disaster management cycle – its phases; prevention, mitigation,									CO3			
UNIT	-4 E	POST DISASTER RESPONSE Emergency medical and public health services; Environmental post disaster response (water, sanitation, food safety, disease control, security,									CO4			

		munications); reconstruction and rehabilitation; Roles and								
	_	esponsibilities of government, community, local institutions, role of gencies like NDMA, SDMA and other International agencies,								
	_	organizational structure, role of insurance sector.								
	DISASTERS - ENVIRONMENT AND DEVELOPMENT									
UNIT-5	Factors affecting vulnerability such as impact of developmental projects and environmental modifications (including of dams, land use changes, urbanization etc.), sustainable and environmental friendly recovery; reconstruction and development methods.									
Learning Resources										
Text Books		 R. B. Singh, Disaster Management, Rawat Publications, 2000 Pradeep Sahni, 2004, Disaster Risk Reduction in South Asia, Prentice Hall. Singh B.K., 2008, Handbook of Disaster Management: Techniques & Guidelines, Rajat Publication. 								
	Reference Books 1. Disaster Medical Systems Guidelines. Emergency Medical Services Authority, State of California, EMSA no.214, June 2003 2. Inter-Agency Standing Committee (IASC) (Feb. 2007). IASC Guidelines on Mental Health and Psychosocial Support in Emergency Settings. Geneva: IASC									
E-Resou & othe digita materi	er al	Authority) 2. http://www.ndmindia.nic.in/ (National Disaster management in India, Ministry of Home Affairs)								