Course Code 21CE	EO308T	Course Name	Disaster Miti	gation and Management	Course Category	, O			Op	en Ele	ective	e Co	urse				T P	
Pre-requisite Courses		Nil	Co-requisite Courses	Nil		ressive irses						I	Vil					
Course Offering	g Departn	nent	Civil	Data Book / Codes/St	andards						Ni	7						
Course Learning	g Rationa	le (CLR):	The purpose of learning thi	s course is to:					(1				itcom dium,		O) ligh-3)	1		
			and role of various stakehold				1	2	3	4	5	6	7	8	9	10	11	12
CLR-2: Understand various hazards, and health issues on disaster management  CLR-3: Understand various phases of disaster management and risk reduction measures  CLR-4: Acquire knowledge on hazard management systems  CLR-5: Manage the pre and post disaster scenario							Engineering Knowledge	Problem Analysis	Design & Development	Analysis, Design, Research	Modern Tool Usane		Environment & Sustainability	Ethics	Individual & Team Work	Communication	Project Mgt. & Finance	Life Long Learning
Course Outcomes (CO):  At the end of this course, learners will be able to:								$\mathbf{P_{1}}$		A. Re	$\Xi \Box$	9,		页	E 🛚	Ŭ	T H	_ ::
CO-1: Understand the role of various stakeholders in risk reduction measures							3	-	-	-	-	2	3	-	-	-	-	-
CO-2: Acquire knowledge on various modes of hazards and their occurrence							3	-	-	-	-	2	3	-	-	-	-	-
CO-3: Illustrate key concepts of vulnerability and risk assessment techniques							3	-	-	-	-	2	3	-	-	-	-	-
CO-4: Evaluate various processes employed in pre-disaster scenarios for risk preparedness CO-5: Integrate the management principles in disaster management during post disaster scenario							3	-	-	-	-	2	3	-	-	-	-	-
CO-5: Integrate th	be managem	ent principles	ın disaster management duri.	ng post disaster scenario			3	-	-	-	-	2	3	-	-	-	-	-
	lanagemer lanagemer	nt- History; G nt Policy (200		Phases- Global & Indian scenario-	Major Disasters ir	n India-	Disast	er Ma	nagem	ent in I	India-	NDF	RF; Dis	saster	Manag	emen	t Act (	lours 2005); lours
				l- Man Made- Industrial; Health rela	ted; Infrastructura	l; Intent	tional											
Unit-3: VULNERA	BILITY AN	ID RISK AS	SESSMENT														9 H	ours

9 Hours Medical Trauma and Stress Management- Physical and Socio-economic Impacts of Disasters; Emotional Impacts of Disasters- Rehabilitation and Reconstruction; Education and Public

9 Hours

Integrated Developmental Planning for Disaster Management; Role of Government agencies and NGO's in Mitigation & Management- Vulnerable Groups in Disasters Management; Essential

Risk Evaluation- Quantitative & Qualitative; Risk Perception; Vulnerability- Mitigation Measures- Need; Agencies involved; Types; Obstacles involved- Role of Insurance

Supplies: Site Management- Role of Technology in Disaster Management; Emergency Management Systems; Role of Remote sensing, GIS and GPS in Disaster Management

Unit-4: PRE-DISASTER MANAGEMENT

Unit-5: POST DISASTER MANAGEMENT

awareness; Capacity building

Lograina	1.	D. Alexander, Natural Disasters, ULC Press, 1999	3.	Damon P. Coppola, Introduction to International Disaster Management, 3rd edition, Elsevier, 2015
Learning	2.	W.N. Carter, Disaster Management: A Disaster Management Handbook, Asian	4.	C.J. Barrow, Developing the Environment: Problems and Management, Harlow: Longman, 1995
Resources		Development Bank, 2008	5.	5. Disaster Management Act "2005", Ministry of Home Affairs, Govt. of India, 2005

Learning Assessment  Course Learning Assessment(CLA)  Butto CoE									
			By the CoE						
	Bloom's Level of Thinking	CLA-1 Avera	mative age of unit test 0%)	Ci	g Learning LA-2 0%)	Summative Final Examination (40% Weightage)			
		Theory	Practice	Theory	Practice	Theory	Practice		
Level 1	Remember	20	-	20	-	20	-		
Level 2	Understand	20	-	20	-	20	-		
Level 3	Apply	30	-	30	-	30	-		
Level 4	Analyze	30	-	30	-	30	-		
Level 5	Evaluate	-	-	-	-	-	-		
Level 6	Create	-	-	-	-	-	-		
	Total	10	00 %	10	00 %	100 %			

	Course Designers										
	Experts from Industry	Experts from Higher Technical Institutions		Internal Experts							
1.	Mr. Suyash Misra, Arcadis Consulting India Private Limited, Bangalore.	1. Dr. Vivekanand, Assistant Professor, MNIT, Jaipur	1.	Dr. R. Sivakumar, Professor, SRMIST							
2.	Dr.Rajkumar, Director, Hubert Envirocare Systems, Chennai.	2. Dr. Harish Gupta, Assistant Professor, Osmania University, Hyderabad	2.	Dr. P. Purushothaman, Associate Professor, SRMIST							