

#### **SWARNANDHRA COLLEGE OF ENGINEERING & TECHNOLOGY**

(AUTONOMOUS)

Accredited by National Board of Accreditation, AICTE, New Delhi, Accredited by NAAC with "A" Grade - 3.32 CGPA, Recognized under 2(f) & 12(B) of UGC Act 1956, Approved by AICTE, New Delhi, Permanent Affiliation to JNTUK, Kakinada Seetharampuram, W.G.DT., Narsapur-534280, (Andhra Pradesh)

Date of

#### DEPARTMENT OF CIVIL ENGINEERING **TEACHING PLAN**

Course Code			Seme ster		Branches	Conta Perio /Wee	ds Aca	demic ear	commenc ement of Semester
16CEX O02		ASTER AGEMEN T	VIII		CSE	6	201	19-20	25-11- 2019
COURS		TCOMES: S							
1	identify the tools of integrating disaster management principles in disaster mitigation process.[K1]								
2		guish between ies.[K2]	n the c	liffere	ent approaches neede	d to man	age pre and j	post- dis	aster
3	prepare the process of risk management and develop a basic understanding method for the role of public in risk management .[K2]								
4	prepar	e the 'relief's	system	ı', 'di	saster victim' and rel	ate them	.[K3]		
5	differe	entiate the pla	anning	strat	egies useful in risk m	itigation	processes.[I	<b>K</b> 4]	
6	point out about public awareness and economic incentive possibilities.[K4]								
UN	UNIT Out Comes / Bloom's Level		To	pics No.	Topics/Activi	ty	Text Book / Reference	Cont act Hour	Delivery Method
			]	1.1	Introduction to disas management- Conce hazards and disaster	epts of	T2,R1, R3	1	Chalk & Talk
			1	1.2	Disaster managements	nt and	T2,R1, R3	1	Chalk & Talk
		CO1: <b>Identify</b> the	e 1	1.3	Interdisciplinary nat disaster managemen		T2,R1, R3	1	Chalk & Talk
I Natural Hazards and Disaster management		tools of integrating disaster managemer principles in disaster	nt l	1.4	Disaster management cycle- Disaster, Res Rehabilitation and recovery, Prevention mitigation, & prepar	ponse, n and	T2,R1, R3	1	Chalk & Talk
		mitigation process.		1.5	Five Priorities for ac	ction	T2,R1, R3	1	Chalk & Talk
		[K1]	1	1.6	Flood risk manager Case study	nent -	T1, T2, R1	1	PPT & talk
			1	1.7	Drought risk manag Case study	ement-	T1, T2, R1	1	PPT & talk
			1	1.8	Earthquakes & land	dslides	T1, T2, R1	1	PPT &



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			risk management- Case study			talk
		1.9	Global warming risk-Case study	T1, T2, R1	1	PPT & talk
		1.10	Cyclone risk management- Mitigation and management- case study	T1, T2, R1	1	PPT & talk
		1.11	Tsunami risk management, Post Tsunami hazards along the Indian coast	T1, T2, R1	1	PPT & talk
Content beyond Syllabus		1.12	Nuclear powerplant accident-Case study	Weblink	1	PPT & talk
				Total		12
		2.1	Fire hazards-Case study	T2, R3	1	PPT & talk
		2.2	Transport hazard dynamics	T2, R3	1	PPT & talk
	CO 2:  Distinguish between the different approaches needed to manage pre and post- disaster activities. [K2]	2.3	Solid waste management	T2, R3	1	PPT & talk
		2.4	Post disaster management- case study	T2, R3	1	PPT & talk
II		2.5	Bio terrorism risk management-case study	T3,R3	1	PPT & talk
Man Made		2.6	Threat in mega cities-case study	T3,R3	1	PPT & talk
Disaster and their management		2.7	Rail accidents- risk management-case study with examples	T3,R3	1	PPT & talk
		2.7	Air craft's accidents risk management-case study with examples	T3,R3	1	PPT & talk
		2.8	Emerging infectious diseases & Aids and their management	T3,R3	1	PPT & talk
				Total		9
		3.1	Building Codes and Land Use Planning: Challenges of Development and Enforcement	T1, T2,R3	1	PPT & talk
		3.2	Social Vulnerability: Who Draws the Line? Where	T1, T2,R3	1	Chalk & talk, PPT



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			and Why?			
		3.3	Environmental Vulnerability	T1, T2,R3	1	Chalk & talk, PPT
	GO2.	3.4	Environmental drivers and impact of disasters	T1, T2,R3	1	Chalk & talk, PPT
III	CO3: Explain the process of risk management.	3.5	Macroeconomic Management	T1, T2,R3	1	Chalk & talk, PPT
Risk and		3.6	Sustainable Development	T1, T2,R3	1	Chalk & talk, PPT
Vulnerability	[K2]	3.7	Disaster Risk Reduction	T1, T2,R3	1	Chalk & talk, PPT
		3.8	Climate Change Risk Reduction:	T1, T2,R3	1	Chalk & talk, PPT
		3.9	Decision-making in Uncertainty and framework	T1, T2,R3	1	Chalk & talk, PPT
		3.10	Financial Management of Disaster-related Economic Losses	T1, T2,R3	1	Chalk & talk, PPT
				Total		10
	ology in aster system, 'disaster victim' and	4.1	Disaster management for infra structures	T1,R3	1	Chalk & talk, PPT
		4.2	Taxonomy of infrastructure	T1,R3	1	Chalk & talk, PPT
		4.3	Disaster Management for treatment plants and process facilities	T1,R3	1	Chalk & talk, PPT
		4.4	Disaster Management for electrical substations	T1,R3	1	Chalk & talk, PPT
137		4.5	Disaster Management for roads	T1,R3	1	Chalk & talk, PPT
Role of Technology in		4.6	Disaster Management for bridges	T1,R3	1	Chalk & talk, PPT
Disaster managements		4.7	Mitigation programme for earthquakes	T1,R3	1	Chalk & talk, PPT
managements		4.8	Flowchart for earthquake preparedness	T1,R3	1	Chalk & talk, PPT
		4.9	Geospatial information in agriculture drought assessment	T1,R3	1	Chalk & talk, PPT
		4.10	Multimedia technology in disaster risk management	T1,R3	1	Chalk & talk, PPT
		4.11	Training transformable indigenous knowledge in disaster reduction	T1,R3	1	Chalk & talk, PPT
		4.12	The Japanese experience	T1,R3	1	Chalk &



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			in disaster reduction			talk, PPT
	•			Total		12
		5.1	Introduction to Education and community preparedness	T1, R3	1	Chalk & talk, PPT
		5.2	Education in Disaster Risk Reduction	T1, R3	1	Chalk & talk, PPT
		5.3	Essentials of School disaster education	T1, R3	1	Chalk & talk, PPT
	CO5:	5.4	Essentials of School Disaster Education-Koba	T1, R3	1	Chalk & talk, PPT
${f v}$	Differentiat e the	5.5	Essentials of School Disaster Education-Japan	T1, R3	1	Chalk & talk, PPT
Education and Community	planning strategies	5.6	Community Capacity	T1, R3	1	Chalk & talk, PPT
Preparedness	useful in risk	5.7	Disaster Resilience	T1, R3	1	Chalk & talk, PPT
	mitigation processes. [K4]	5.8	Community-based Disaster Recovery	T1, R3	1	Chalk & talk, PPT
		5.9	Community-based Disaster Management	T1, R3	1	Chalk & talk, PPT
		5.10	Community-based Social Capital	T1, R3	1	Chalk & talk, PPT
		5.11	Designing Resilience	T1, R3	1	Chalk & talk, PPT
		5.12	Building Community Capacity for Action	T1, R3	1	Chalk & talk, PPT
				Total		12
		6.1	Impact of disaster on poverty and deprivation	T1, R3	1	Chalk & talk, PPT
	CO 6:  point out about public awareness and economic incentive possibilities [K4]	6.2	Climate Change adaptation and Human Health	T1, R3	1	Chalk & talk, PPT
		6.3	Linkages of Climate, Disaster and Health issues in Vietnam	T1, R3	1	Chalk & talk, PPT
<b>VI</b> Multi- sectional		6.4	Exposure, Health Hazards and Environmental Risk: Study in Chennai, India	T1, R3	1	Chalk & talk, PPT
Issues		6.5	Hydrometeorological Disasters and Agriculture	T1, R3	1	Chalk & talk, PPT
		6.6	Forest Management and Disaster Risk Reduction	T1, R3	1	Chalk & talk, PPT
		6.7	Rural Livelihood and Disaster Risk Reduction: A Case Study from Central Vietnam	T1, R3	1	Chalk & talk, PPT



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			1	
	6.8 Institutional C Disaster Mana Red Cross and Crescent Mov	agement: The d Red T1, R3	1	Chalk & talk, PPT
	6.9 Corporate Sec Disaster Risk A Community Approach	Reduction: T1 R3	1	Chalk & talk, PPT
	6.10 Essentials of I Recovery Plan	1 TT R3	1	Chalk & talk, PPT
	6.11 The African E of Disaster Ri	sk Reduction 11, R3	1	Chalk & talk, PPT
	Disaster, Envi Development: 6.12 Opportunities Integration in Region	for T1, R3	1	Chalk & talk, PPT
	6.13 Disaster Mana Way Ahead	agement: The T1, R3	1	Chalk & talk, PPT
		Total	13	
	CUMULATIVE PI	ROPOSED PERIODS	68	
Text Be	ooks:		1	
Text Bo			1	ON .
	ooks:	ISHER, YEAR OF PUB anagement - Global Cha	LICATIO	
S.No.	ooks:  AUTHORS, BOOK TITLE, EDITION, PUBL Rajib shah & R. Krishnamurthy, 'Disaster Ma	ISHER, YEAR OF PUB anagement - Global Cha 009	LICATIO	nd Local
<b>S.No.</b> 1	ooks:  AUTHORS, BOOK TITLE, EDITION, PUBL Rajib shah & R. Krishnamurthy, 'Disaster Ma Solutions', First Edition, Universities Press, 2 Tushar Bhattacharya, 'Disaster Science and M	ISHER, YEAR OF PUB anagement - Global Cha 009 Management', First Edit Challenges and Opportu	LICATIO llenges ar ion, Tata	nd Local McGraw
1 2 3	AUTHORS, BOOK TITLE, EDITION, PUBL Rajib shah & R. Krishnamurthy, 'Disaster Ma Solutions', First Edition, Universities Press, 2  Tushar Bhattacharya, 'Disaster Science and M Hill Education Pvt. Ltd., New Delhi, 2012  Jagbir Singh, 'Disaster Management - Future	ISHER, YEAR OF PUB anagement - Global Cha 009 Management', First Edit Challenges and Opportu	LICATIO llenges ar ion, Tata	nd Local McGraw
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		Name	Signature with Date
i.	Faculty	Dr M.S.V.K.V.Prasad	
ii.	Course Coordinator	Dr M.S.V.K.V.Prasad	
iii.	Module Coordinator	Dr M.S.V.K.V.Prasad	
iv.	Programme Coordinator	Prof. G.V.L.N Murthy	

**Principal**