



# 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.D.T., Narsapur-534280, (Andhra Pradesh)

## DEPARTMENT OF CIVIL ENGINEERING TEACHING PLAN

Course Code	Course Title	Semester	Branches	Contact Periods/Week	Academic Year	Date of commencement of Semester
19CEX001	DISASTER MANAGEMENT	V	ECE, MECH	6	2021-22	01-10-2021
<b>COURSE OUTCOMES:</b> Students are able to						
1	identify the tools of integrating disaster management principles in disaster mitigation process. [K1]					
2	discuss about different approaches needed to manage pre and post- disaster activities. [K2]					
3	prepare the process of risk management and develop a basic understanding method for the role of public in risk management. [K2]					
4	administer the role of technology in Disaster management. [K3]					
5	conclude the planning strategies for education and community preparedness programmes. [K4]					
UNIT	Outcomes / Bloom's Level	Topics No.	Topics/Activity	Text Book / Reference	Contact Hour	Delivery Method
I	CO1: identify the tools of integrating disaster management principles in disaster mitigation process. [K1]	<b>NATURAL HAZARDS AND DISASTER MANAGEMENT</b>				
		1.1	Introduction to disaster management- Concepts of hazards and disaster	T2, R1, R3	1	Chalk & Talk, Active Learning
		1.2	Interdisciplinary nature of disaster management	T2, R1, R3	1	
		1.3	Disaster management cycle- Disaster, Response, Rehabilitation and recovery,	T2, R1, R3	1	
		1.4	Disaster Prevention and mitigation, & preparedness	T2, R1, R3	1	
		1.5	Five Priorities for action	T2, R1, R3	1	
		1.6	Flood risk management - Case study	T1, T2, R1	1	
		1.7	Drought risk management- Case study	T1, T2, R1	1	
		1.8	Earthquakes & landslides risk management- Case study	T1, T2, R1	1	
		1.9	Global warming risk- Case	T1, T2, R1	1	



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	<b>CO3:</b> prepare the process of risk management and develop a basic understanding method for the role of public in risk management. [K2]	3.3	Environmental Vulnerability	T1, T2, R3	1	
		3.4	Environmental drivers and impact of disasters	T1, T2, R3	1	
		3.5	Macroeconomic Management	T1, T2, R3	1	
		3.6	Sustainable Development	T1, T2, R3	1	
		3.7	Disaster Risk Reduction	T1, T2, R3	1	
		3.8	Climate Change Risk Reduction:	T1, T2, R3	1	
		3.9	Decision-making in Uncertainty and framework	T1, T2, R3	1	
		3.10	Financial Management of Disaster-related Economic Losses	T1, T2, R3	1	
<b>Total</b>					<b>10</b>	
<b>IV</b>	<b>CO4:</b> administer the role of technology in Disaster management. [K3]	<b>ROLE OF TECHNOLOGY IN DISASTER MANAGERMENTS</b>				Chalk & talk, PPT
		4.1	Disaster management for infra structures	T1, R3	1	
		4.2	Taxonomy of infrastructure	T1, R3	1	
		4.3	Disaster Management for treatment plants and process facilities	T1, R3	1	
		4.4	Disaster Management for electrical substations	T1, R3	1	
		4.5	Disaster Management for roads	T1, R3	1	
		4.6	Disaster Management for bridges	T1, R3	1	
		4.7	Mitigation programme for earthquakes	T1, R3	1	
		4.8	Flowchart for earthquake preparedness	T1, R3	1	
		4.9	Geospatial information in agriculture drought assessment	T1, R3	1	
		4.10	Multimedia technology in disaster risk management	T1, R3	1	
4.11	Training transformable indigenous knowledge in disaster reduction	T1, R3	1			



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3	SULPHEY, M. M., 'Disaster Management', PHI Learning Pvt. Ltd., 2016.
<b>Web Details</b>	
1	<a href="https://en.wikipedia.org/wiki/Disaster_management_in_India">https://en.wikipedia.org/wiki/Disaster_management_in_India</a>
2	<a href="https://cna.ca/wp-content/uploads/2014/05/Chernobyl-Accident-and-its-Consequences.pdf">https://cna.ca/wp-content/uploads/2014/05/Chernobyl-Accident-and-its-Consequences.pdf</a>
3	<a href="https://www.academia.edu/31796955/PRINCIPLES_OF_DISASTER_MANAGEMENT">https://www.academia.edu/31796955/PRINCIPLES_OF_DISASTER_MANAGEMENT</a>
4	<a href="https://www.academia.edu/34049107/Community_Based_Disaster_Preparedness_Planning">https://www.academia.edu/34049107/Community_Based_Disaster_Preparedness_Planning</a>
5	<a href="https://nptel.ac.in/courses/105104183/">https://nptel.ac.in/courses/105104183/</a>

	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