**Course Outline Template** 

Course title	Disaster Management		
Course Code	SDM - 1101	No of credit	4
Department	B. Tech	Branch	Civil, CSE, Mechanical
			& Mining
Director SDM	A. Suchitra	Contact no	9777375362
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Course	Jaya Krishna Behera		9438676742,
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Faculty	Mr. Jaya Krishna Behera		
	A. Suchitra		
Learning hours	40 hours	Course type	Elective
COURSE			
DESCRIPTION			

This course is intended to provide fundamental understanding of different aspects of Disaster Management. It will expose the students to the concept and functions of Disaster Management and to build competencies of Disaster Management professionals and development practitioners for effective supporting environment as put by the government in legislative manner. It would also provide basic knowledge, skills pertaining to Planning, Organizing and Decision-making process for Disaster Risk Reduction

## COURSE OBJECTIVES

The aim is to impart knowledge on

- 1. To provide students an exposure to disasters, their significance, types & Comprehensive understanding on the concurrence of Disasters and its management.
- 2. To ensure that students begin to understand the relationship between vulnerability, disasters, disaster prevention, risk reduction and the basic understanding of the research methodology for risk reduction measures.
- 3. Equipped with knowledge, concepts, and principles, skills pertaining to Planning, Organizing, Decision-making and Problem solving methods for Disaster Management.
- 4. The course also facilitates students to globally share their views, ideas and information pertaining to Disaster Management on a common platform.
- 5. To develop rudimentary ability to respond to their surroundings with potential disaster response in areas where they live, with due sensitivity.

## **GUIDELINES ON GRADING AND STANDARDS OF ASSESSMENT**

A continuous evaluation system will be adopted to evaluate the students. There will be an individual and group assignments, presentations, mid-sem. exam and end-sem. Exams.

COURSE CON	TENT		
Module - 1			
UNIT I – Introduction to Disaster Management (2hrs)			
Session	Topic	Coverage	Reading/Reference
2hrs	Disaster & Emergencies :	• Introduction/ Brain storming/	
	Concept & Fundamentals	Group formation	
	of Disaster Management	<ul> <li>History of Disasters</li> </ul>	

Concepts and Definitions

UNIT II – Eff 2hrs	Fect and Impact of Disaster ( 6 Effect and Impacts of Disasters (Group work)	<ul> <li>Hazard, Risk, Vulnerability, Capacity, Disaster &amp; Equations of Disaster Management</li> <li>Types &amp; Classification of Disasters</li> <li>Factors responsible for disasters like flood, cyclone and Earthquake.</li> <li>Hrs )</li> <li>Disasters Impact – Social, Economic, Political, Environmental, Health, Psychosocial, etc.</li> <li>Differential impacts- in terms of</li> </ul>	Disaster Mgmt. and India: Responding Internally and Simultaneously in Neighboring
		Caste, Class, Gender, Age, Location, Disability.	Countries Kailash Gupta, BE (Elec.), MBA(IIMA
2 hrs	Disaster vs Development	<ul> <li>Disaster is the causes of destruction</li> <li>Disaster leads to development</li> </ul>	
2 hrs	Global warming and climate change	<ul> <li>Concept and understanding of global warming and climate change</li> <li>Causes and factors</li> <li>Remedial measures</li> </ul>	
Module – II			
UNIT III – D	isaster Risk Management - (9	hours)	
8 hrs	Community Managed Disaster Risk Reduction And Village Contingency Plan (Group work)  Role of Task force/ ODRAF/ NDRF for DRR at community level.	<ul> <li>Hazard analysis and assessment</li> <li>Vulnerability analysis</li> <li>Resource capability assessment</li> <li>Mapping &amp; Seasonality Calendar</li> <li>Structural and Non Structural assessment.</li> <li>Task forces with various roles for DRR.</li> </ul>	CBDRM for Local Authorities: PARTICIPANT'S WORKBOOK – adpc www.adpc.net
2 hours	Rapid Need Assessment Pre and Post Disaster (Group work and Practical demo)	<ul> <li>Meaning and Importance</li> <li>Rapid Need Assessment in emergency and its significance</li> <li>Process and Methods</li> </ul>	
3 hrs	Stress Management	<ul> <li>Causes and consequences of Stress</li> <li>What are the best ways to handle pressure</li> <li>Psychosocial Support</li> </ul>	
UNIT IV - D			
2 hrs	Disaster Management Cycle	<ul><li>Disaster Management Cycle</li><li>Phases of Disasters</li><li>Prevention, Mitigation</li></ul>	

		Preparedness, Warning, Response, Rehabilitation, Reconstruction	
4 hrs	Fire safety (Practical)	Practical	
4 hours	First Aid & Driving Learning (Theory and Practical )	<ul> <li>ABCD of First Aid</li> <li>Dressing and Bandages Practical session</li> <li>Emerging need and importance of learning driving</li> </ul>	
4hrs	Building Rescue operation or Demonstration of ODRAF/NDRAF rescue materials	Practical	
Module – III		•	
		Minimum Standards in Humanitarian	
Response (4 l		I	
2hrs	Sphere Standards (Group Work)	<ul><li>The Humanitarian Charter</li><li>Protection Principles</li><li>Core Standards</li></ul>	
2hrs	Restoring Life Line Services (WASH) (Group work)	<ul> <li>Water , Sanitation &amp; Hygiene Promotion</li> <li>Food Security &amp; Nutrition</li> <li>Health Services</li> <li>Health Services</li> <li>Shelter and Settlement</li> </ul>	The Sphere Project , Humanitarian Charter and Minimum Standards In Humanitarian Response
UNIT VI – Dis	aster Management Projects -	-( 6 hours)	
6hrs	Seminars / Workshop	<ul> <li>Adapting Climate Change</li> <li>Disaster Resilience Structures and Buildings</li> <li>IT in Disaster Management</li> <li>Inter-relationship between Disasters and Development</li> <li>Urban Disaster</li> <li>Rain Water Harvesting</li> <li>Inclusions — Disability, Aged, Social etc</li> </ul>	
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- Team of 10 15 members would be formed
- Each Team would take up a project work in one of the topics above or related topics with prior approval: 2 Weeks
- Each Team would organize one Seminar / Workshop during the session

COURSE LEARNING OUTCOMES				
Course Learning Outcomes				
1. Develop perspective underst				
and post phases of Disasters.				
2. Equipped with potential know	2. Equipped with potential knowledge, concepts & skills for effective			
Planning on Disaster Manage				
3. Application of the concepts in	3. Application of the concepts in real life scenario.			
COURSE TEACHING AND LEARNI	NG ACTIVITIES			
Course Teaching and Learning A				
<ul> <li>Classroom interactions (I</li> </ul>	_ecturers)			
<ul> <li>Simulated exercises</li> </ul>				
<ul> <li>Role playing</li> </ul>				
<ul> <li>Case analysis</li> </ul>				
COURSE ASSESSMENT METHODS				
Assessment Method	Description	Weight	Aligned Course Learning Outcomes.	
Attendance/ class participation	Involvement in the class works	10%	outcomes.	
Simulated Exercises, Field	Field exposure and	20%		
Training and Practices	curiosity in hands on practices.			
Assignment & project	Assignment & project	20%		
Presentations	Presentation will be on			
	group & individual basis			
Mid Term	Question pattern will	10%		
	have real life case study			
	analysis, Short and Long			
	questions.			
End Term	Question will be set by	40%		