

Name of the Course: Diploma in Engineering (All discipline)		
Subject Title: Disaster Management		
Course Code :	Semester :	
Duration : 50 hours	Maximum Marks :	
Teaching Scheme :	Examination Scheme	
Tutorial :	Mid Semester Examination :	
Theory :	Assignment & Quiz :	
Practical :	End Semester Examination :	
Credit :		
Please note: This subject is to be taught in classes and examination is to be conducted internally. Training./ Demonstration by Govt. bodies may be conducted at Institute level during vacations.		
Objectives: The course is intended to provide a general concept in the dimensions of disasters caused by nature beyond the human control as well as the disasters and environmental hazards induced by human activities with emphasis on disaster preparedness, response and recovery.		
CONTENTS		
Chapter	Name of the Topic	Hours
I	Introduction on Disaster Different Types of Disaster : A) Natural Disaster: such as Flood, Cyclone, Earthquakes, Landslides etc B) Man-made Disaster: such as Fire, Industrial Pollution, Nuclear Disaster, Biological Disasters, Accidents (Air, Sea, Rail & Road), Structural failures(Building and Bridge), War & Terrorism etc. Causes, effects and practical examples for all disasters.	12
II	Risk and Vulnerability Analysis 1. Risk : Its concept and analysis 2. Risk Reduction 3. Vulnerability : Its concept and analysis 4. Strategic Development for Vulnerability Reduction	12
III	Disaster Preparedness and Response Preparedness- 1. Disaster Preparedness: Concept and Nature 2. Disaster Preparedness Plan 3. Prediction, Early Warnings and Safety Measures of Disaster. 4. Role of Information, Education, Communication, and Training,	14

	<ol style="list-style-type: none"> 5. Role of Government, International and NGO Bodies. 6. Role of IT in Disaster Preparedness 7. Role of Engineers on Disaster Management. <p>Response-</p> <ol style="list-style-type: none"> 1. Disaster Response : Introduction 2. Disaster Response Plan 3. Communication, Participation, and Activation of Emergency Preparedness Plan 4. Search, Rescue, Evacuation and Logistic Management 5. Role of Government, International and NGO Bodies 6. Psychological Response and Management (Trauma, Stress, Rumor and Panic) 7. Relief and Recovery 8. Medical Health Response to Different Disasters 	
IV	<p>Rehabilitation, Reconstruction and Recovery</p> <ol style="list-style-type: none"> 1. Reconstruction and Rehabilitation as a Means of Development. 2. Damage Assessment 3. Post Disaster effects and Remedial Measures. 4. Creation of Long-term Job Opportunities and Livelihood Options, 5. Disaster Resistant House Construction 6. Sanitation and Hygiene 7. Education and Awareness, 8. Dealing with Victims' Psychology, 9. Long-term Counter Disaster Planning 10. Role of Educational Institute. 	12

List of Books

Author	Title	Publication
Dr. Mrinalini Pandey	Disaster Management	Wiley India Pvt. Ltd.
Tushar Bhattacharya	Disaster Science and Management	McGraw Hill Education (India) Pvt. Ltd.
Jagbir Singh	Disaster Management : Future Challenges and Opportunities	K W Publishers Pvt. Ltd.
J. P. Singhal	Disaster Management	Laxmi Publications.
Shailesh Shukla, Shamna Hussain	Biodiversity, Environment and Disaster Management	Unique Publications
C. K. Rajan, Navale Pandharinath	Earth and Atmospheric Disaster Management : Nature and Manmade	B S Publication