

**CENTRE OF EXCELLENCE IN DISASTER MITIGATION & MANAGEMENT
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE**

Program Code: **48** M.Tech.(Disaster Mitigation & Management)
 Department: **DM** Centre of Excellence in Disaster Mitigation & Management
 Year: **I**

Teaching Scheme					Contact Hours/Week			Exam Duration		Relative Weight (%)				
S. No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
Semester- I (Autumn)														
1.	DM-501	Geodata Processing Techniques and Models	PCC	4	3	-	3	3	-	15	25	20	40	-
2.	DM-502	Natural Hazards and Impact Assessment	PCC	4	3	1	-	3	-	25	-	25	50	-
3.	DM-503	Managerial and Financial Aspects of Disaster Management	PCC	4	3	1	-	3	-	25	-	25	50	-
4.		Program Elective Course-I	PEC	4	3	1	-	3	-	25	-	25	50	-
5.		Program Elective Course-II	PEC	4	3	1	-	3	-	25	-	25	50	-
		Total		20	9	2	3							
Semester-II (Spring)														
1.	DM-601	Hazard Monitoring, Prediction and Microzonation	PCC	4	3	1	2/2	3	-	20	20	20	40	-
2.	DM-700	Seminar	SEM	2	-	-	-	-	-	-	-	-	100	-
3.		Program Elective III	PEC	4	-	-	-	-	-	-	-	-	-	-
4.		Program Elective IV	PEC	4	-	-	-	-	-	-	-	-	-	-
5.		Program Elective V	PEC	4	-	-	-	-	-	-	-	-	-	-
		Total		18	4	3	1							

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Teaching Scheme					Contact Hours/Week			Exam Duration		Relative Weight (%)				
S. No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
Semester- I (Autumn)														
1.	DM-701A	Dissertation Stage-I (to be continued next semester)	DIS	12	-	-	-	-	-	-	-	-	100	-
		Total		12										
Note: Students can take 1 or 2 audit courses as advised by the supervisor, if required.														
Semester-II (Spring)														
1.	DM-701B	Dissertation Stage-II (contd. From III semester)	DIS	18	-	-	-	-	-	-	-	-	100	-
		Total		18										

Summary					
Semester		1	2	3	4
Semester-wise Total Credits		20	18	12	18
Total Credits		68			

Program Elective Courses (Disaster Mitigation & Management)

Teaching Scheme					Contact Hours/Week			Exam Duration		Relative Weight (%)				
S. No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
1.	DM-504	Hydrological Data Collection, Processing and Analysis	PEC	4	3	2	-	3	-	25	-	25	50	-
2.	DM-505	Landslide Hazard Assessment and Mitigation	PEC	4	3	1	-	3	-	25	-	25	50	-
3.	DM-506	Cyclone and Wind Engineering	PEC	4	3	1	-	3	-	25	-	25	50	-
4.	DM-507	Disaster Preparedness and Mitigation	PEC	4	3	1	-	3	-	25	-	25	50	-
5.	DM-602	Climate Change and Sustainable Development	PEC	4	3	1	-	3	-	25	-	25	50	-
6.	DM-603	Disaster Induced Risks	PEC	4	3	1	-	3	-	25	-	25	50	-
7.	DM-604	Instrumentation and Data Mining Techniques	PEC	4	3	2	-	3	-	25	-	25	50	-
8.	DM-605	Flood Estimation, Forecasting and Control	PEC	4	3	1	-	3	-	25	-	25	50	-
9.	DM-606	Application of Geospatial Data for Disaster Mitigation	PEC	4	3	1	-	3	-	25	-	25	50	-
10.	DM-607	Vulnerability and Risk Analysis	PEC	4	3	1	-	3	-	25	-	25	50	-
11.	DM-608	Manmade and Biological Disasters- Detection and Mitigation	PEC	4	3	1	-	3	-	25	-	25	50	-
12.	DM-609	Socio Economic Aspects of Disaster Management	PEC	4	3	1	-	3	-	25	-	25	50	-