SCHEMEOFCOURSEWORK

CourseDetails:

CourseTitle:	**DISASTERMANAGEMENT**		
CourseCode:	**15CE1164**	**L TP C:**	**4 003**
Program:	**B.Tech.**		
Branch:	**Information Technology**		
Semester:	**VIII**		
Prerequisites:-			
Courses towhichit is a	**-**		

CourseOutcomes (COs):
At the end ofthe course,the studentwillbeableto:

1	**Analysis the naturalcalamites andmanmadedisasters.**
2	**Understandtherelief expendituresandlegalaspects.**
3	**Operate riskandadministrativemanagement.**
4	**Assessthe riskmanagement andnecessaryequipmentrequired**
5	**Prepareandexecutetheemergencymanagementprogramme.**

Program Outcomes(POs):Graduateswillbe ableto:

1	**Applytheknowledgeofmathematics,science,engineering fundamentals tosolvecomplexcivilengineeringproblems.**
2	**Attainthecapabilitytoidentify,formulateandanalyseproblemsrelatedtocivilengineeringandsubstantiatetheconclusions.**
3	**Designsolutionsforcivilengineeringproblemsanddesignsystemcomponentsandprocessesthatmeet thespecified needswithappropriateconsiderationto publichealthandsafety.**
4	**Performanalysisandinterpretationofdatabyusingresearchmethodssuchasdesignofexperimentsto synthesizetheinformation and toprovidevalidconclusions.**
5	**Selectandapplyappropriatetechniquesfromtheavailableresourcesandmoderncivilengineeringandsoftwaretools,andwillbeabletopredictandmodelcomplexengineeringactivitieswith anunderstandingofthepracticallimitations.**
6	**Carryouttheirprofessionalpracticeincivilengineeringbyappropriatelyconsideringandweighingtheissues related tosocietyandculture andthe consequentresponsibilities.**
7	**Understandtheimpactoftheprofessionalengineeringsolutionsonenvironmentalsafetyandlegalissues.**
8	**Transformintoresponsiblecitizensbyresortingtoprofessionalethicsandnormsoftheengineeringpractice.**
9	**Functioneffectivelyinindividualcapacityaswellasamemberindiverseteamsandinmultidisciplinarystreams.**
10	**Communicatefluentlyoncomplexengineeringactivitieswiththeengineeringcommunityandsociety,andwillbeable toprepare reportsandmakepresentations effectively.**

11	**Todemonstrateknowledgeandunderstandingoftheengineeringandmanagementprinciplesand applythe samewhilemanagingprojectsinmultidisciplinaryenvironments.**
12	**Engagetheminindependentandlife-longlearninginthebroadestcontextoftechnologicalchangewhile continuingprofessional practiceintheirspecializedareas of civil engineering.**

CourseOutcomeversusProgramOutcomes:

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO-1	3	2	3	2		2	2					2
CO-2	3	2	3	2		2	2					2
CO-3	3	2	3	2		2	2					2
CO-4	3	2	3	2		2	2					2
CO-5	3	2	3	2		2	2					2

S-Stronglycorrelated,M-Moderatelycorrelated,Blank -Nocorrelation

Assessment Methods:	**Assignment / Seminar / Mid-Test /EndExam**

Teaching-Learningand Evaluation

WeekNo.	TOPIC/CONTENTS	Course Outcomes	Samplequestions	TEACHINGLEARNING STRATEGY	AssessmentMethod & Schedule
1.	**Naturesand extentofdisaster, Natural calamities suchasearthquake,floods,drought,**	CO-1	1. Listoutsomeofnaturaldisastersin India? 2. Writeshortnotesonearthquakes?	Lecture/ Discussion	
2.	**Volcanoes,Forestfires, coastalhazards,landslides etc.**	CO-1	1. Writeshortnotesontsunamis? 2. Brieflyexplain thecausesoflandslides 3. Brieflyexplain aboutvolcanoes	Lecture/ Discussion	
3.	**Manmadedisasters suchaschemicalandindustrialhazards,nuclearhazards,firehazards etc**	CO-1	1. Whatarethemanmadedisasters? 2. Explainabout theindustrialhazardsoccurinIndia?	Lecture/ Discussion	

4.	**DisasterManagement–Financingreliefexpenditure,Disastermanagementact-2005**	**CO-2**	1.Explainbrieflyabout Disastermanagement act,2005 2.Explainthefinancialrelief measuresduringdisast	Lecture/ Discussion	
5.	**legalaspects, rescueoperations, Managementauthorityindisastermanagement**	**CO-2**	1.Whatarethe legalaspectsduringdisaster2.Writeaboutdisastermanagement authorityframework	Lecture/ Discussion	
6.	**Rescue operations,NDRF, Locations**	**CO-2**	1.RoleofNDRF Duringdisaster	Lecture/ Discussion	
7.	**Casualty–Management,Agenciesinvolvedinmasscasualtymanagement**	**CO-3**	1.Explainabout masscasualtymanagement2.Explaintheflowofmass casualtymanagement	Lecture/ Discussion	Assignment
8.	MID-1				
9.	**Riskmanagement,Frameworkofdisasterriskreduction,factorsofriskmanagement**	**CO-3**	1.Define a riskassessment? what arethestepsfollowed? 2.what is meant byemergencyplanrehearsal? Advantages?	Lecture/ Discussion	
10.	**Emergency managementplanning**	**CO-3**	1.Explainthechallengesandissuesin risk identificationand knowledge2.Explainaboutherisksharing?whataretheuses?	Lecture/ Discussion	
11.	**Administrativesetupand organization.**	**CO-3**	1.Frame work ofadministrativesetupandorganization	Lecture/ Discussion	
12.	**Hazardanalysis-Trainingofpersonnel,**	**CO-4**	1.RoleofGIS?2.Roleofremotesensingandits uses?	Lecture/ Discussion	

13.	**Emergencyfacilitiesandequipment necessarypublicawarenescreation**	**CO-4**	1.Discussaboutpublicawareness onriskreduction 2.Writea shortnoteon informationmanagementduringdisaster	Lecture/ Discussion	
14.	**Disastermanagement cycle**	**CO-4**	1.what is disastermanagement cycle?	Lecture/ Discussion	
15.	**Preparationofemergency managementprogramme.**	**CO-5**	1.Explainaboutpreparationofemergencymanagementprogramme 2. whatarethemeasurestobestrengthenedin structuralmitigation andnon-structuralmitigation	Lecture/ Discussion	
16.	**Executionofemergencymanagementprogramme.**	**CO-5**	1.Explainaboutexecution ofemergencymanagementprogramme 2. whataretheshorttermandlongtermmeasuresfollowed	Lecture/ Discussion	Assignment
17.	MID-II				