Course C	ode	Course Name	L-T-P-Credits	Year Introdu	of ction		
CE488	8	DISASTER MANAGEMENT	3-0-0-3	2010	6		
<ul> <li>Course Objectives</li> <li>To provide an overview of the common hazards and their dynamics</li> <li>To inculcate the basic concepts of disaster management</li> </ul>							
Syllabus AP AB KAAV							
Fundamental concepts of hazards and disasters - Basic concept of Earth as a system and its component sub systems Climate Change - Introduction to key concepts and terminology of hazard, vulnerability, exposure, risk, crisis, emergencies, Disasters, Resilience - Natural Disasters - Earth quakes, Landslides. Floods, Coastal disasters, Tidal waves, Tsunamis. Nature of Impacts - Anthropogenic Disasters - Soil degradation and desertification -water and atmospheric pollution -Hazard and disaster management plans for floods, tidal waves.							
Expected	Outc	ome					
<ul> <li>The students will</li> <li>i. get general ideas about the processes involved in natural and anthropogenic disasters</li> <li>ii. understand the concepts of disaster management and measures to mitigate and contain common episodes of disasters</li> </ul>							
References		1	-				
<ol> <li>Andrew, S., "Environmental Modeling with GIS and Remote Sensing", John Willey and sons, 2002</li> <li>Ariyabandu, M. and Sahni P. (Eds), "Disaster Risk Reduction in South Asia", Prentice- Hall (India), 2003.</li> <li>Bell, F.G., "Geological Hazards: Their assessment, avoidance and mitigation", E &amp; FN SPON Routledge, London. 1999</li> <li>Bossler, J.D., "Manual of Geospatial Science and Technology", Taylor and Francis, London, 2001</li> <li>David Alexander, "Natural Disasters", Research Press, New Delhi, 1993</li> </ol>							
6. Matthews, J.A., "Natural hazards and Environmental Change", Bill McGuire, Ian Mason, 2002							
<ol> <li>Nick Carter. W., "Disaster Management - A Disaster Manager's Handbook". Asian Development Bank, Philippines. 1991</li> <li>United Nations , Mitigating Natural Disasters, Phenomena, Effects and options, A Manual for policy makers and planners, New York, 1991</li> </ol>							
		COURSE PLAN	1				
Module		Contents		Hours	End Sem. Exam Marks		
Ι	Fund key expo Basi syste subs	damental concepts of hazards and disast concepts and terminology of haz osure, risk, crisis, emergencies, Disasters, c concept of Earth as a system and ems. Climate Change vis-a-vis the inter ystems- Green House Effect and Glob	ers: Introduction ard, vulnerabili Resilience. its component s relationships of t pal warming, ba	to ty, 7 ub he sic	15%		

	ideas about their causes and effects.						
II	Types of Natural Disasters I- Earth quakes, Landslides. Nature of impacts.	7	15%				
FIRST INTERNAL EXAMINATION							
III	Types of Natural Disasters II- Floods, Coastal disasters- Cyclones, Tsunamis. Nature of impacts.	7	15%				
IV	Types of Anthropogenic Disasters I- soil and soil degradation, desertification.	7	15%				
SECOND INTERNAL EXAMINATION							
v	Types of Anthropogenic Disasters II-Fundamental concepts of water and atmospheric pollution.	7	20%				
VI	Hazard and disaster management plans for floods, tidal waves.	7	20%				
END SEMESTER EXAMINATION							

## **QUESTION PAPER PATTERN** (End Semester Examination)

2014

## Maximum Marks :100

## **Exam Duration: 3 Hrs**

- Part A -Module I & II : 2 questions out of 3 questions carrying 15 marks each
- Part B Module III & IV: 2 questions out of 3 questions carrying 15 marks each
- Part C Module V &VI : 2 questions out of 3 questions carrying 20 marks each
- **Note** : 1.Each part should have at least one question from each module 2.Each question can have a maximum of 4 subdivisions (a,b,c,d)