



MTM COLLEGE OF ARTS, SCIENCE & COMMERCE

PAZHANJI (PO), VELIANCODE, PONNANI, MALAPPURAM DIST-679579

Affiliated to University of Calicut; No: 6682/2014/Admn

Ph:04942675400,9020875400

E-mail:mtmcolleges@gmail.com , Website:www.mtmcasc.ac.in

Certificate course in Disaster Management

Total hours: 30 hours

Course Code: MTMCM05

Course evaluation: Written Exam-50 marks and internal assessment 25 marks

Course Description

Disaster management is emerging globally as a field of study that deals with an increasing range of risks and vulnerabilities that societies, nations, and communities have to understand and learn to cope with. The expansion of the scope of the term disaster beyond its original definition, referring solely to natural hazards, has made disaster studies an important aspect of the way we study the impact of shocks, of varied origin and types, on society and peoples. Even if the subject began originally mostly in the practitioner's domain, it is now increasingly a field of study that combines theoretical perspectives and understanding with a range of skills and techniques that have become increasingly sophisticated.

For developing societies, disaster risk reduction is increasingly understood as an integral part of development, especially in the era of climate change, and the vulnerabilities of the poor and marginalized have come to be recognized as the key to understanding the disproportionate impact of disasters in the developing world. Especially in the developing world, disaster risk reduction, disaster response and post-disaster recovery need to be examined and evaluated from the perspectives of justice, equity and social inclusion. In India, disaster management as a field of systematic study and practice is still in its initial stages, providing tremendous scope for exploration, research and the evolution of appropriate techniques and best practices.

The Certificate Program in Disaster Management aims at providing a basic understanding of the various components of disaster management.

Course Objective

The course is intended to provide a general concept in the dimensions of disasters caused by nature beyond human control as well as the disasters and environmental hazards induced by human activities with emphasis on disaster preparedness, response and recovery. The major objectives are:

1. To provide basic conceptual understanding of disasters.
2. To understand approaches of Disaster Management
3. To build skills to respond to disaster

Course Learning Outcome

- Understanding foundations of hazards, disasters and associated natural/social phenomena
- Familiarity with disaster management theory (cycle, phases)
- Knowledge about existing global frameworks and existing agreements (e.g. Sendai)
- Methods of community involvement as an essential part of successful DRR
- Humanitarian Assistance before and after disaster
- Technological innovations in Disaster Risk Reduction: Advantages and problems
- Experience on conducting independent DM study including data search, analysis and presentation of disaster case study

Syllabus

Unit: I Definition and types of disaster Hazards and Disasters, Risk and Vulnerability in Disasters, Natural and Man-made disasters, earthquakes, floods, drought, landside, land subsidence, cyclones, volcanoes, tsunami, avalanches, global climate extremes. Man-made disasters: Terrorism, gas and radiation leaks, toxic waste disposal, oil spills, forest fires. **(10 hours)**

Unit: II Study of Important disasters Earthquakes and its types, magnitude and intensity, seismic zones of India, major fault systems of India plate, flood types and its management, drought types and its management, landslide and its management case studies of disasters). Social Economics and Environmental impact of disasters. **(7 hours)**

Unit: III Mitigation and Management techniques of Disaster Basic principles of disaster management, Disaster Management cycle, Disaster management policy, National and State Bodies for Disaster Management, Early Warning Systems, Building design and construction in highly seismic zones, retrofitting of buildings. **(6 hours)**

Unit IV Training, awareness program and project on disaster management Training and drills for disaster preparedness, Awareness generation program, Usages of GIS and Remote sensing techniques in disaster management, Mini project on disaster risk assessment and preparedness for disasters and its surrounding areas. **(7 hours)**

Reference:

Text Books:

1. Disaster Management Guidelines, GOI-UND Disaster Risk Program (2009-2012)
2. Damon, P. Copola, (2006) Introduction to International Disaster Management, Butterworth Heineman.
3. Gupta A.K., Niar S.S and Chatterjee S. (2013) Disaster management and Risk Reduction, Role of Environmental Knowledge, Narosa Publishing House, Delhi.
4. Murthy D.B.N. (2012) Disaster Management, Deep and Deep Publication PVT. Ltd. New Delhi.
5. Modh S. (2010) Managing Natural Disasters, Mac Millan publishers India LT