

BA 3rd SEMESTER
COMPULSORY SKILL ENHANCEMENT COURSE

DM318S: DISASTER MANAGEMENT

CREDITS: THEORY: 2, TUTORIAL/PRACTICAL: 2

Course Objective: The frequency of extreme events resulting in widespread loss of lives and assets has been observed to be increasing globally. Collaborative efforts involving everyone are needed at all levels for making Disaster Risk Reduction (DRR) initiatives effective. In this direction/ the introduction of **disaster management** as a discipline at UG level is an academic initiative expected to be very productive for the process of education., training, mass awareness, and skill enhancement. This course is mandatory for all undergraduate courses. The course comprises of four (4) credits; out of which two credits are theory and other two cover practical/tutorial aspects of the subject.

THEORY

Credit-I: Fundamentals of Disaster Management

- Concept of Disaster, Hazard, Vulnerability, Exposure, Capacity; Disaster Management Continuum; Preparation, Response and Recovery; Disaster Risk Reduction (DRR).
- Disaster Management Act 2005; Jammu and Kashmir State Disaster Management Plan (2016)

Credit-II: Natural and Anthropogenic Hazards

- **Natural:** Flood, Cyclone, Drought, Snow Avalanche, Wildfires, Earthquake, Tsunami, Landslide, Volcanic Eruption.
- **Anthropogenic:** Nuclear (weapon), Chemical (Spill, weapon), Transportation (road accidents), Campus shooting, bomb threats.

TUTORIAL / PRACTICAL:

Credit-III: Disaster Preparedness

Dos and Do not's at individual or household levels (before, during and after a disaster), Communication, Coordination, Cooperation during the emergencies; Community Based First Aid (CBFA); Community Based Disaster Management (CBDM); Mock drills (Fire, Earthquake, Campus Shooting, Bomb Threat).

Credit-IV: Disaster Risk Assessment Techniques

Risk identification; Application of Remote Sensing (RS), Geographic Information System (GIS), and Global Positioning System (GPS) in Risk Assessment

SUGGESTED READINGS:

- A Manual on Disaster Management Parag Diwan (2010), Pentagon, Earth
- Andrew S., 2003. Environmental Modelling with GIS and Remote Sensing
- Bryant Edwards., Natural Hazards, Cambridge University Press, U.K, 2005
- Carter, W. Nick., Disaster Management: A Disaster Manager's Handbook; Asian Development Bank, 2008
- Damon Coppola., Introduction to International Disaster Management 3rd Edition, 2015
- David Etkin., Disaster Theory: An Interdisciplinary Approach to Concepts and Causes, 2014.
- Disaster Risk Management Systems Analysis: A Guide Book
- Stephan Baas (2008), Food and Agriculture Organization of the United Nations.
- Handbook of Disaster Risk Reduction & Management; Christian N Madu and Chu-Hua Kuei, 2017, World Scientific
- N. Peterson, 2009. GIS Cartography: A Guide to Effective Map Design, Gretchen, New York, 2nd Edition.
- Handbook of Hazards and Disaster Risk Reduction; Ben Wisner, J.C. Gaillard, Ilan Kelman, (2012) Routledge
- H.K. Gupta., Disaster Management, 2003
- Patrick L. Abbott., Natural Disasters, McGraw-Hill Higher Education, 2004.
- Systems Approach to Management of Disasters: Methods and Applications, Slobodan P., Simonovic (2011), Wiley
- <http://www.unisdr.org/>
- <http://www.ndma.gov.in/en/>
- <http://nidm.gov.in/default.asp>
- <https://www.ifrc.org/>