

UNIVERSITY OF PUNE

MA/MSC Syllabus in Geography (credit system)
Revised Syllabus (from June, 2013)

Title: Geography of Disaster Management

Code No. Gg: 205
No. of Credits: 03

Total No. of Periods: 45

Sr. No.	Topic	Subtopics	Learning Points	Periods
1.	Introduction	Concepts and definitions	Disaster, Hazard, Vulnerability, Resilience, Risks	5
2.	Classification of Disasters	Causes and types	Natural Disasters Earth quakes, Volcano, Landslide, Tsunami, Cyclones, Floods, Droughts Man-made disaster Fire, Terrorism, Food poisoning, strike and lockouts, accidents, fair and festivals, stampedes.	8
3.	Impacts of Disasters	Impacts	Social, Economic, political, environmental, health, psychological Differential impacts: Caste, class, gender, age, location, disability	6

4.	Trends	Global	Urban disasters, Pandemics, complex emergencies, Climate change	6
5.	Disaster management	Disaster cycle Preparedness & Mitigation	Phases of disaster cycle i. Factors of Disaster Management. ii. First Aid. iii. Role of Civilians and NGO'S in Natural & man- made Calamities. iv. Home guard. v. Role of Armed forces in Natural man- made Calamities. vi. Role of Para-Military forces in Natural man- made Calamities. vii. Role of Police forces in Natural man- made Calamities	10
6.	Technologies for Disaster Management	Technologies	Role of IT in Disaster Preparedness Remote Sensing, GIS and GPS Use and Application of Emerging Technologies Application of Modern Technologies for the Emergency communication. · Application and use of ICST for different disasters.	8
7.	Disasters in India	Disasters and management	Various disasters in India and their management issues	2

Reference Books :

1. Turk J. (1985) : Introduction to Environmental Studies, Saunders, College Publication, Japan
2. Singh Savindra (2000) : Environmental Geography, Parag Pustak Bhavan, Allahabad
3. Morrisawa M (Ed) (1994) : Geomorphology and Natural Hazards, Elsevier, Amsterdam
4. Hart M. G. (1986) : Geomorphology, Pure and Applied, George Allen and Unwin, London
5. Valdiya K. S. (1987) : Environmental Geology, Tata McGraw Hill, New Delhi
6. Bryant Edward (2000) : Natural Hazards, Cambridge University Press
7. Daly Herman E. (1996) : Beyond Growth, Beacon Press, Boston
8. Daly Herman E and Twonseed Keneth N (Ed) (1993) : Valuing the earth – Economics, Ecology and Ethics, MIT Press, London
9. Agarwal Anil and Narain Sunita (Ed) (1999) : State of India's Environment The Citizens Report, Centre for Science and Environment, New Delhi
10. Rangachari R, Sengupta Nirmal, et al (2000) : WCD Case Study Large Dams : India's Experience Final Report, Secretariate of World Commission on Dams
11. Dupont, R.R. Baxter, T.E. and Theodore, L. (1998) : Environmental Management :- Problems and Solutions, CRC Press
12. Smith, K. (2001) : Environmental Hazards : Assessing Risk and Reducing Disaster, Routledge