

| COURSE CODE | COURSE TITLE | L | T | P | C |
|--------------------|----------------------------|----------|----------|----------|----------|
| 1154AE102 | DISASTER MANAGEMENT | 3 | 0 | 0 | 3 |

UNIT I ENVIRONMENTAL HAZARDS & DISASTERS 9

Meaning of Environmental hazards, Environmental Disasters and Environmental stress. Concept of Environmental Hazards, Environmental stress & Environmental Disasters. Different approaches & relation with human Ecology - Landscape Approach - Ecosystem Approach - Perception approach - Human ecology & its application in geographical researches.

UNIT II TYPES OF ENVIRONMENTAL HAZARDS & DISASTERS 9

Natural hazards and Disasters - Man induced hazards & Disasters - Natural Hazards - Planetary Hazards / Disasters - Extra Planetary Hazards / disasters - Planetary Hazards - Endogenous Hazards - Exogenous Hazards

UNIT III EARTHQUAKE 9

Volcanic eruption - Earthquakes - landslides - Volcanic Hazards / Disasters - Causes and distribution of Volcanoes - Hazardous effects of volcanic eruptions - Environmental impacts of volcanic eruptions - Earthquake Hazards / disasters - Causes of Earthquakes - Distribution of earthquakes - Hazardous effects of - earthquakes - Earthquake Hazards in India - Human adjustment, perception & mitigation of earthquake

UNIT IV CYCLONES 9

Tropical cyclones & Local storms - Floods - Droughts - Cold waves - Heat waves - Flood hazards India - Flood control measures - Drought hazards in India - Drought control measures - Extra Planetary Hazards / Disasters - man induced Hazards / Disasters - Physical hazards / Disasters - Soil erosion - Chemical hazards / disasters - Biological hazards / disasters

UNIT V EMERGING APPROACHES 9

Emerging approaches in Disaster Management - Pre-disaster Stage (preparedness) - Emergency Stage - Post Disaster stage – Rehabilitation

REFERENCES:

1. Disaster Mitigation: Experiences And Reflections by Pradeep Sahni
2. Natural Hazards & Disasters by Donald Hyndman & David Hyndman - Cengage Learning
3. R. B. Singh (Ed) Environmental Geography, Heritage Publishers New Delhi, 1990
4. Savinder Singh Environmental Geography, PrayagPustakBhawann 1997
5. Kates, B. I & White, G. F The Environment as Hazards, oxford, New York, 1978
6. R. B. Singh (Ed) Disaster Management, Rawat Publication, New Delhi, 2000
7. H. K. Gupta (Ed) Disaster Management, Universities Press, India, 2003

8. R. B. Singh, Space Technology for Disaster Mitigation in India (INCED), University of Tokyo, 1994
9. Dr. Satender, Disaster Management in Hills, Concept Publishing Co., New Delhi, 2003
10. A. S. Arya Action Plan For Earthquake, Disaster, Mitigation in V. K. Sharma (Ed)
Disaster Management IIPA Publication New Delhi, 1994
11. R. K. Bhandani An overview on Natural & Manmade Disaster & their Reduction, CSIR,
New Delhi
12. M. C. Gupta Manuals on Natural Disaster Management in india, National Centre for
Disaster Management, IIPA, New Delhi, 2001.