SOFT COURSE: GYS-504: Disaster Studies

Course Learning Outcomes:

CO1. Identify major natural disaster.
CO2. Analyze the causes and consequence of disaster.
CO3. Execute the different preventing methods.
CO4. Connect real world with methods.

Unit	Course Content	Teaching Hours
1	**Environment hazards & disasters:** Introduction, Meaning of Hazards & Disasters, Approaches to Disaster Management. Causes and Consequences of Disasters: Physical, Economic, and Cultural impacts. National and International Organizations in Disaster Management, Types of Environmental Hazards and Disasters - Geophysical, Hydrological, Meteorological, Biological, Technological. Population Explosion and its impacts.	12
2	**Emerging approaches to Disaster management: (1)** Pre-Disaster Stage (Preparedness) - Hazard Zonation Maps, Predictability and Forecasting, Warning, Land Use Zoning, Information Education & Communication (IEC), Disaster-Resistant House Construction, Population Reduction in Vulnerable Areas and Awareness. **(2)** Emergency Stage, Rescue Training for Search and Operations (National and Regional Level), Ground Management Plan Preparation, Immediate Relief, Assessment Surveys **(3)** Post-Disaster Stage (Rehabilitation) - Political Administrative Aspects, Social Aspects, Economic Aspects, Cultural Aspects and Environmental Aspects.	15
3	**Natural Disaster mitigation:** Relief measure, role of GIS in Relief measures, role of GNSS in search and rescue, role of Remote sensing in prediction of hazards and disasters, measures of adjustment of natural hazards	14

References:

1. R.B. Singh (Ed), (1990): Environmental Geography, Heritage Publishers New Delhi
2. Savinder Singh, (1997): Environmental Geography, Prayag Pustak Bhawan.
3. Kates, B.I & White, (1978): G.F the Environment as Hazards, oxford, New York.
4. R.B. Singh (Ed), (2000): Disaster Management, Rawat Publication, New Delhi.
5. H.K. Gupta (Ed), (2003): Disaster Management, Universities Press, India.
6. R.B. Singh,(1994):Space Technology for Disaster Mitigation in India (INCED), University of Tokyo.
7. Dr. Satender, (2003): Disaster Management t in Hills, Concept Publishing Co., New Delhi.
8. A.S. Arya Action Plan for Earthquake, Disaster Mitigation.
9. V.K. Sharma (Ed) (1994): Disaster Management IIPA Publication New Delhi.
10. R.K. Bhandani An overview on Natural & Man-made Disaster & their Reduction, CSIR, New Delhi
11. M.C. Gupta, (2001): Manuals on Natural Disaster management in India, National Centre for Disaster Management, IIPA, New Delhi.