UNIT - I:


UNIT - II:

**Types of Environmental hazards & Disasters:** 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:


UNIT - IV:

Exogenous hazards / disasters - Infrequent events - Cumulative atmospheric hazards / disasters

**Infrequent events:** Cyclones - Lightning - Hailstorms

**Cyclones:** Tropical cyclones & Local storms - Destruction by tropical cyclones & local storms (causes, distribution human adjustment, perception & mitigation) Cumulative atmospheric hazards/disasters - Flooods - Droughts - Cold waves - Heal waves Flooods - Causes of floods - Flood hazards India - Flood control measures (Human adjustment, perception & mitigation) Droughts - Impacts of droughts - Drought hazards in India - Drought control measures - Extra Planetary Hazards / Disasters - man induced Hazards / Disasters - Physical hazards / Disasters - Soil erosion

**Soil Erosion:** Mechanics & forms of Soil Erosion - Factors 7 causes of Soil Erosion - Conservation measures of Soil Erosion.

**Chemical hazards / disasters:** Release of toxic chemicals, nuclear explosion - Sedimentation processes Sedimentation processes - Global Sedimentation problems - Regional Sedimentation problems - Sedimentation & Environmental problems - Corrective measures of Erosion & Sedimentation
Biological hazards / disasters: Population Explosion.

UNIT - V:
Emerging approaches in Disaster Management - Three stages

1. Pre-disaster Stage (preparedness)
2. Emergency Stage
3. Post Disaster stage - Rehabilitation

TEXT BOOKS:

1. Disaster Mitigation: Experiences And Reflections by Pradeep Sahni
2. Natural Hazards & Disasters by Donald Hyndman & David Hyndman - Cengage Learning

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2. Savinder Singh Environmental Geography, Prayag Pustak Bhawann 1997
4. R. B. Singh (Ed) Disaster Management, Rawat Publication, New Delhi, 2000
6. R. B. Singh, Space Technology for Disaster Mitigation in India (INCED), University of Tokyo, 1994
7. Dr. Satender, Disaster Management in Hills, Concept Publishing Co., New Delhi, 2003
9. R. K. Bhandani An overview on Natural & Man made Disaster & their Reduction, CSIR, New Delhi