

SYLLABUS

ENVIRONMENTAL EDUCATION-SEM 5

UNIT 1: ENVIRONMENT AND NATURAL RESOURCES

1. Multidisciplinary nature of environmental education; scope and importance.
2. Man as an integral product and part of the Nature.
3. A brief account of land, forest and water resources in India and their importance.
4. Biodiversity: Definition, importance of Biodiversity ecological, consumptive, productive, social ethical and moral, aesthetic and option value.
5. Levels of Biodiversity: Genetic, species and ecosystem diversity.

UNIT 2: ENVIRONMENTAL DEGRADATION AND IMPACTS

1. Human population growth and its impacts on environment, land use change, land degradation, soil erosion and desertification.
2. Use and over-exploitation of surface and ground water, construction of dams, floods conflicts over water (within India).
3. Deforestation: Causes and effects due to expansion of agriculture, firewood, mining, forest fires and building of new habitats.
4. Non-renewable energy resources, their utilization and influences.
5. A brief account of air, water, soil and noise pollutions, Biological, industries and solid wastes in urban areas. Human health and economic risks.
6. Green house effect - global warming, ocean acidification, ozone layer depletion, acid rains and impacts on human communities and agriculture.
7. Threats to biodiversity: Natural calamities, habitat destruction and fragmentation, over exploitation, hunting and poaching, introduction of exotic species, pollution, predator and pest control.

UNIT 3: CONSERVATION OF ENVIRONMENT

Concept of sustainability and sustainable development with judicious use of land, water and forest resources; a forestation.

1. Control measures for various types of pollution; use of renewable and alternate sources of energy.
2. Solid waste management control measures of urban and industrial waste.
3. Conservation of biodiversity: In-situ and ex-situ conservation of biodiversity.

4. Environment Laws: Environment Protection Act; Act; Wildlife Protection Act; Forest Conservation Act.

5. International agreements: Montreal and Kyoto protocols; Environmental movements: Business of Rajasthan, Chipko, Silent valley.