### 1.7 Environmental Studies (Skill Enhancement Course)

#### Unit - I

## Ecosystem, Biodiversity & Natural Resources

1. Definition, Scope & Importance of Environmental Studies.

2. Structure of Ecosystem – Abiotic – Biotic components Producers, Consumers, Decomposers, food chains, Food weds, ecological Pyramids

3. Function of an Ecosystem: Energy flow in the Ecosystem (single channel energy flow model)

4. Definition of Biodiversity, Genetic, Species & Ecosystem diversity, Hot-Spots of Biodiversity, Threats to Biodiversity, Conservation of Biodiversity (Insitu&Exsitu)

5. Renewable & non – renewable resources, Brief account of Forest, Mineral & Energy (Solay Energy & Geothermal Energy) resources

6. Water Conservation, Rain water Harvesting & Watershed Management.

#### Unit - II

# EnvironmentalPollution, Global Issues & Legislation

1. Causas, Effects & Control measures of Air Pollution, Water Pollution

2. Solid Waste Management

3. Golbal Warming & Ozone layer depletion.

4. Ill – effects of Fire – works

5. Disaster Management - floods, earthquakes & cyclones\

6. Environmental legislation:-

- a) Wild life Protection Act
- b) Forest Act
- c) Water Act
- d) Air Act

7. Human Rights

8. Women and Child welfare

- 9. Role of Information Technology in environment and human health
  - Field Study:
- 1. Pond Ecosystem
- 2. Forest Ecosystem

#### References:

1. Environmental Studies- from crisis to cure - by R. Rajagopalan (Third Edition) Oxford University Press.

2. Text Book of Environmental Studies for undergraduate courses (Second edition) by ErachBharucha

3. A text of Environmental Studies by D. K. Asthana and Dr.Meera Asthana.