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Foundation Course - 2

ENVIRONMENTAL STUDIES Common for BA/BCom/BSc/BBA/BCA Programmes

Semester – I

(Total 30 Hours)

Unit-I : Natural Resources:

6 Hrs

Definition, scope and importance. Need for public awareness.

Brief description of;

□ Forest recourses: Use and over-exploitation. Deforestation; timber extraction, mining, dams. Effect of deforestation environment and tribal people

□ Water resources: Use and over-utilization. Effects of over utilisation of surface and ground water. Floods, drought.

□ Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources.

□ Food resources: World food problems, Effects of modern agriculture; fertilizerpesticide, salinity problems.

Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources.

□ Land resources: Land as resources, land degradation, man induced landslides, soil erosion and desertification

Unit-II : Ecosystems, Biodiversity and its conservation

- □ Concept of an ecosystem
- □ Structure and function of an ecosystem
- □ Producers, consumers and decomposers
- □ Food chains, food webs and ecological pyramids
- □ Characteristic features of the following ecosystems:-

Forest ecosystem, Desert ecosystem, Aquatic ecosystem.

- □ Value of biodiversity: Consumptive use, productive use. Biodiversity in India.
- □ Threats to biodiversity: habitat loss, poaching of wildlife, man wildlife conflicts.
- □ Endangered and endemic species of India
- □ Conservation of biodiversity

Unit-III : Environmental Pollution

- □ Definition
- □ Causes, effects and control measures of :
 - a. Air pollution
 - b. Water pollution

6 Hrs

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- c. Soil pollution
- d. Noise pollution

□ Solid waste management; Measures for safe urban and industrial waste disposal

- □ Role of individual in prevention of pollution
- Disaster management: Drought, floods and cyclones

Unit-IV : Social Issues and the Environment

- □ From Unsustainable to Sustainable development
- □ Water conservation, rain water harvesting, watershed management.
- □ Climate change, global warming, ozone layer depletion,
- □ Environment protection Act
- □ Wildlife Protection Act, Forest Conservation Act

Unit-V : Human Population and the Environment

6 Hrs

6 Hrs

- □ Population explosion, impact on environment.
- □ Family welfare Programme
- □ Environment and human health
- $\hfill\square$ Women and Child Welfare
- □ Value Education
- □ Role of Information Technology in Environment and humanhealth.

Reference Books :

- 1. Environmental Studies by Dr.M.Satyanarayana, Dr.M.V.R.K.Narasimhacharyulu, Dr.G. Rambabu and Dr.V.VivekaVardhani, Published by Telugu Academy, Hyderabad.
- 2. Environmental Studies by R.C.Sharma, Gurbir Sangha, published by Kalyani Publishers.
- 3. Environmental Studies by Purnima Smarath, published by Kalyani Publishers.