



B.COM. SEMESTER – 2

7	VAC 2	ENVIRONMENTAL STUDIES – 1
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Name of the Course: **Environmental Studies – 1**

Course credit: **02**

Teaching Hours: **30 (Hours)**

Total marks: **50**

Objectives:

The Objectives of the course are as follow:

- The course aims to train learners to cater to the need for ecological citizenship through developing a strong foundation on the critical linkages between ecology-society-economy.

Learning Outcomes:

After completion of the course, learners will be able to:

1. Demonstrate skills in organizing projects for environmental protection and sustainability;
2. Analyse various projects and initiatives with respect to ecosystem restoration;
3. Understand Renewable and Non-renewable resources;
4. Describe the environmental issues and their possible repercussions on the plant in the next few decades.

PARTICULAR	NO. OF LECTURES
UNIT NO. 1 : INTRODUCTION	
- Environmental Studies: Meaning, Nature, Scope, Importance and Limitations, Need for environmental education Ecosystems; Biodiversity and Natural Systems; Natural Cycles.	10
UNIT NO. 2 : ECOLOGY AND ECOSYSTEMS	
- Concept of ecology and ecosystem, Structure and function of ecosystem; Energy flow in an ecosystem; food chains, food webs; Basic concept of population and community ecology; ecological succession. - Characteristic features of the following: a) Forest ecosystem b) Grassland ecosystem c) Desert ecosystem d) Aquatic ecosystems (ponds, streams, lakes, wetlands, rivers, oceans, estuaries)	10
UNIT NO. 3 : NATURAL RESOURCES	
Concept of Renewable and Non-renewable resources, Land use change; Land degradation, soil erosion and desertification, Deforestation: Causes, consequences and remedial measures,	10
Total Lectures/Hours	30

Suggested Readings:

1. Agarwal, K.C., 2001, Environmental Biology, Nidi Publ Ltd. Bikaner.
2. Bharucha, E., The Biodiversity of India, Mapin Publishing Pvt. Ltd, Ahmedabad 380013, India (R).
3. Brunner, R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc. 480p.
4. Clark, R.S., Marine Pollution, Clarendon Press Oxford (TB).
5. Cunningham, W.P., Cooper, T.H., Gorhani, E.& Hepworth, M.T., 2001, Environmental Encyclopedia, Jaico Publ House, Mumbai, 1196p.
6. De, A.K., Environmental Chemistry, Wiley Eastern Ltd.
7. Down to Earth, Centre for Science and Environment (R).

Note: Learners are advised to use latest edition of books

