

ENVIRONMENTAL STUDIES

No of Credits: 2

Total marks: 30 (ESE) + 20 (IA) = 50

Course Level: 100-199

No of Lectures: 30

The Environmental Studies (EVS) syllabus for the First Semester under the Four-Year Undergraduate Programme (FYUGP) typically covers foundational ecological concepts, resource management, and current environmental challenges.

COURSE LEARNING OUTCOMES

By the end of this course, students will be able to:

CO 1: Understand the multidisciplinary nature of environmental studies and outline sustainable management strategies for natural resources.

CO 2: Identify the drivers of environmental pollution and formulate basic mitigation plans for global climate issues.

CO 3: Apply environmental laws, historical conservation movements, and disaster management principles to real-world scenarios.

THEORY SYLLABUS

Unit 1: Introduction to Environment & Ecosystem

10 lectures

- Multidisciplinary nature, scope, and importance of environmental studies.
- Basic concepts of renewable resources & nonrenewable resources.
- Concepts of sustainability and sustainable development.
- Concept, structure and functions of ecosystems (Forest, Grassland, Aquatic).
- Energy flow, food chains, food webs, and ecological pyramids.

Unit 2: Environmental Pollution & Climate Change

10 lectures

- Causes, effects and control of Air, Water, Soil, and Noise pollution.
- Solid Waste Management: Urban and industrial waste.

- Global issues: Climate change, global warming, ozone layer depletion, acid rain and Carbon credit.

Unit 3: Social Issues, Laws & Disaster Management

10 lectures

- Environmental Laws: Environment Protection Act, Wildlife Protection Act, and Forest Conservation Act.
 - Disaster Management: Causes and management of floods, earthquakes, and landslides.
 - Environmental movements: Chipko, Silent Valley, and Narmada Bachao Andolan.
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Recommended Readings

1. Textbook for Environmental Studies by Erach Bharucha (UGC).
2. Environmental Science by S.C. Santra.
3. Basics of Environmental Science by Michael
4. Perspectives in Environmental Studies" by Anubha Kaushik and C.P. Kaushik (New Age International).