

# **Environmental Studies**

## **Value Added Course [3 Credit Theory=45 hours]**

### **Course Objectives:**

- **To provide students with a broad interdisciplinary framework for understanding the relationship between humans and their environment.**
- **To provide students with informed perspectives on biological and physical processes relevant to environmental problems.**
- **To help students understand responsible environmental policy and practice, and to engage students in ethical reflection regarding environmental problems in local, regional, national, and global communities;**
- **Understand and evaluate the global scale of environmental problems.**
- **Reflect critically on their roles, responsibilities, and identities as citizens, consumers and environmental actors in a complex, interconnected world.**

### **MODULE I**

#### **MODULE I (10 Hours)**

#### **Basic Concepts:**

Ecology; environmental science; population ecology; habitat; major ecosystems of the world; deep ecology; new environmental paradigm.

#### **MODULE II (20 Hours)**

#### **Human Impact on Environment:**

Environmental degradation: causes and effects; population pressure; concept of development; global environmental issues; deforestation & afforestation; measures of environmental protection; environmental impact assessment; natural resource management.

#### **MODULE III (15 Hours)**

#### **Pollution Monitoring & Control:**

Introduction to pollution; air, water, soil & noise pollution; regulatory aspects and legislation; pollution and its measures, removal of pollutants, hazardous and biomedical waste management.

#### **Suggested Readings:**

- Sarita Kumar, Fundamentals of Environmental Studies for UG Courses.
- Dork Sahagian, A User's Guide for Planet Earth.

- Sanjay Kumar Batra et al, Environmental Studies.
- William Cunningham & Mary Cunningham, Principles of Environmental Science
- R. Rajagopalan, Environmental Studies: From Crisis to Cure.
- Mark Z. Jacobson, Air Pollution and Global Warming: History, Science and Solutions.
- Vaishali Anand ,Environment and Ecology
- Patricia Birnie, International Law and the Environment.
- S.C. Shastri, Environmental Law.
- Liz Sonneborn, The Environmental Movement: Protecting Our Natural Resources.