

**SACRED HEART COLLEGE, THEVARA  
(AUTONOMOUS)**

**VALUE ADDED COURSE**

**ENVIRONMENTAL STUDIES**



**ENVIRONMENTAL STUDES**  
**COURSE CODE: 15EVSVAC01**

**Hours: 30**

**Course Objectives**

**On completing the course, the students should be able to:**

- Understand biodiversity and its importance
- Recognize the interconnectedness of multiple factors in environmental challenges.
- Engage constructively with diverse forms of knowledge and experience.
- Identify the multiple environmental hazards.
- Identify causes and effects of pollution.
- Develop an interest in environmental conservation.

**Module 1: Introduction to Environmental Studies**

Definition, scope and importance

Sustainable Development

**Module 2: Natural resources:**

- Forest resources, Water resources, Mineral resources, Food resources, Energy resources, Land resources

**Module 3: Ecosystems**

- What is an ecosystem
- Structure and function of an ecosystem
- Different ecosystems: Forest ecosystem, Grassland ecosystem, Desert ecosystem, Aquatic ecosystem

**Module 4: Biodiversity and its conservation**

- Introduction- definition, ecosystem diversity
- Value of biodiversity

- Biodiversity at global, national and local level
- Hot-spots of biodiversity
- Threats to biodiversity
- Endangered and endemic species of India
- Conservation of biodiversity.

### **Module 5: Environmental Pollution**

What is Environmental pollution

- Causes and effects
- Types of Environmental pollution:
  - a. Water pollution
  - b. Soil pollution
  - c. Marine pollution
  - d. Noise pollution
  - e. Thermal pollution
  - f. Nuclear pollution
- Role of an individual in prevention of pollution

### **Module 6: Conservation Strategies**

- Water conservation, rain water harvesting, water shed management
- Wasteland reclamation
- Public awareness
- Value education

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