

SACRED HEART COLLEGE, THEVARA
(AUTONOMOUS)

VALUE ADDED COURSE

ENVIRONMENTAL STUDIES

ENVIRONMENTAL STUDIES
COURSE CODE: 18EVSVAC01

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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A handwritten signature in green ink, appearing to read "Dr. Johnson X Palackappillil".

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