

ENVIRONMENTAL STUDIES

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Department of Life Education
Sacred Heart College, Tirupattur – 635601
ENVIRONMENTAL STUDIES

SEMESTER	COURSE CODE	TITLE OF THE COURSE	HOURS	COURSE	CREDITS
IV	VE405	ENVIRONMENTAL STUDIES	2	UG	1

UNIT I : ECOSYSTEM

OBJECTIVES

- To know what ecosystem and its benefit
- To understand the different between biotic and abiotic components
- To become aware of ecology functions
- To understand that ecosystem balance among various trophic levels in the ecosystem.

SUBTOPICS

- Structure of the Ecosystem
- Biotic Components
- Abiotic Components

OUTCOME

- At the end of the unit students will be able to know about the importance of ecosystem, ecological processes and recycling of nutrients between biotic and abiotic components.

UNIT II : NATURAL RESOURCES

OBJECTIVES

- To understand the importance of natural resources
- To cultivate the idea of using water sparingly
- To understand the usages of forest and its products
- To be aware of the ACTS to save the natural resources
- To identify the major problems met by nature

SUBTOPICS

- Renewable and Non-renewable Sources
- Water resources

- Forest resources

OUTCOME

- At the end of the unit students will be able to know how to preserve our natural system and green infrastructure in the face of a growing population and limited resources. They learn to work as a group to build up the nation through their small jesters. They also learn how to approach the government to support for the natural resources.

UNIT III : WASTE MANAGEMENT

OBJECTIVES

1. To understand the wastage in different fields
2. To know the different between solid waste and liquid waste
3. To be aware of stopping liquid waste which cause pollution
4. To follow the stages of managing waste to recover and recycling
5. To understand the sources and types of solid waste and liquid waste

SUBTOPICS

1. Liquid Wastes
2. Solid Wastes
3. Domestic Wastes
4. Bio-Medical Wastes
5. E-Wastes

OUTCOME

1. At the end of the unit students will be able to know to take leadership quality or responsibility to save our planet from these environmental contaminations. They do get the awareness of making public to take responsibility on this accord and learned to make us of the wastes for recycling. They learned art from waste activities too.

UNIT IV : ENVIRONMENTAL POLLUTION

OBJECTIVES

- To identify the casus of air pollution
- To be aware of death due to air pollution
- To bring awareness to prevent air pollution
- How chemicals are affecting water and soil?
- To find out noise pollution and radiation pollution

- To understand the cause and effect of the chemical pollution, radiation pollution and noise pollution in detail

SUBTOPICS

1. Air Pollution
2. Water Pollution
3. Soil Pollution
4. Noise Pollution
5. Radiation Pollution

OUTCOME

- At the end of the unit students will be able to know the process of helping to reduce and control pollution at least in their zone.

UNIT V : HEALTH AND HYGIENE

OBJECTIVES

- To understand the difference between Health and Hygiene
- To familiar with our own health and hygiene
- To be aware of different personal hygiene

SUBTOPICS

- Health
- Personal Hygiene
- Social Hygiene

OUTCOME

- At the end of the unit students will be able to know the clear overview about one's own health and hygiene to have a good health in the future. They too learn what are the means and ways to get rid of poor health.

dust particles from the air. Daily washing with soap and water is enough to keep the outer ear clean. Do not reach farther than you can with your little finger into your ear. Putting in hairpins, safety pins or blunt-edged things for cleaning purposes might harm the ear. If you feel wax has accumulated and is plugging your ears and interfering with hearing, consult your doctor.

Hair hygiene

The hair follicles from which the hair grows produce oil from the sebaceous glands that keeps the hair smooth. The scalp (the skin covering the head) also has numerous sweat glands and is a surface for the accumulation of dead skin cells. The oil, sweat and dead cells all add together and can make the hair greasy and look dirty unless you wash it regularly.

Social hygiene

The surrounding and other public places around us are our society. An individual's mental and physical condition is greatly influenced by a good environment. Improper, unkempt and untidy surroundings and inappropriate ways of waste disposal in public places results in an unhealthy surrounding. Such practices cause an alarming growth of rodents, pathogens and other microbes and make us unwell. Consequently, both social and personal hygiene are vital aspects.

Environmental Studies



Prescribed for study at
Sacred Heart College
(Autonomous), Tirupattur

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environment
sustainability

solar-power
reuse
water
petrol
oil
power
waste
reduce
electricity
global-warming
protect
wind-power
recycle
food
vegation



Value Education: Environmental Studies

UNIT - I

The Multidisciplinary Nature of Environmental Studies: Definition, Importance, Awareness, Exercise

UNIT - II

Natural Resources: Forest Resources, Water Resources, Mineral Resources

UNIT - III

Food Resources, Energy Resources, Land Resources

UNIT - IV

Ecosystems: Concept of Ecosystem, Structure and Function of Ecosystem, Producers, Consumers & Decomposers, Energy Flow in Ecosystem, Ecological Succession, Food Chain, Food Webs & Ecological Pyramids, Types of Ecosystem, Grassland Ecosystem, Desert Ecosystem, Aquatic Ecosystem

UNIT - V

Environmental Pollution: Air Pollution, Water Pollution, Soil Pollution, Marine Pollution, Noise Pollution, Thermal Pollution, Nuclear Hazards, Solid Waste Management, Role of an Individual in Prevention of Pollution