

Environment Education

The subject Environment is closely connected with our lives and that is why the understanding and knowledge of this subject to every citizen is a must. Hence to make awareness of the theoretical knowledge and its implementation in day-to day- life is desirable. The interdisciplinary approach provides environment education with definite shape and structure; it also helps in sequential development of knowledge and understanding.

Objectives

To enable the student to

- Develop an in-depth understanding of various environmental issues and concerns of national and global importance.
- Develop a balanced view of the relationship between environment and development.
- Understand basic concepts related to sustainable development vis-à-vis improvement of quality life.
- Develop a deeper concern for the environment and a sense of commitment and responsibility to take proactive action.
- Appreciate the variety in living organisms and recognize India as a mega – diversity nation.
- Appreciate the role of an individual, community, national and international agencies in resolving environmental problems.
- Practice the ways of bringing about qualitative improvement in the environment by assuming leadership role.
- Identify self and one's environment with an attitude to personally contribute towards its improvement.
- Respect costumes and traditions related to local conservation practices and accept indigenous eco friendly technologies.
- Develop skills to understand and participate in investigative studies on various environmental issues.
- Motivate others and participate in social and community activities in dealing with environment problems.

Syllabus of environment education

Std XI

1st term

Unit I: - Man and Environment

*Dimensions of environment-physical, biological and social

*Society and environment in India Indian traditions, costumes and culture-past and Present

*Population and environment

Unit II: - Environment and Development

*Economic and social needs.

- *Agriculture and industries as major sectors of development
- *Social factors affecting development.
- *Impact of development on environment
- *Role of society in development process.
- *Impact of liberalization and globalization

2nd term

Unit III: - energy

- *Changing global patterns of energy consumption.
- *Energy consumption as measure of quality of life.
- *Rising demand for energy.
- *Conventional and non –conventional energy sources.
- *Conservation of energy sources.
- *Planning and management of energy.
- *Enhancing efficiency of the devices and optimizing energy utilization.

Unit IV: - Environmental pollution and global issues

- *Air, water, soil, sound and pollution due to radioactive sources and consequences including human diseases.
- * Solid, liquid and gaseous pollutants.
- *Hazardous materials
- *Ozone layer depletion and its effect
- *Green house effect.
- *Disasters natural and man-made.
- *Strategies for reducing pollution and improving the environment.

Std. XII

1st term

Unit I: - Biodiversity

- *Concept and value of biodiversity.
- *Biodiversity for sustenance of mankind.
- *Resource limitation
- *Ecological role of biodiversity.
- *Interdependence between different species.
- *India as a mega diversity nation.
- *Economic potential of biodiversity.
- *Loss of biodiversity.
- *Strategies for conservation of biodiversity.

Unit II: - Environmental Management

- *Need for environmental management vis-à-vis development.
- *Aspects of environmental management.
- *Legal provision for environmental management.

Unit III: - Sustainable development

- *Concept of sustainable development.
- *Need for sustainable development.
- *Challenges for sustainable development

- *Support base for sustainable development.
- *Role of individual and society.
- *Role of national and international agencies.

2nd term

Unit IV: - Sustainable agriculture

- *Need for sustainable agriculture
- *Green revolution.
- *Irrigation systems, use of manure and fertilizers.
- *Crop protection.
- *Impact of agrochemicals on environment.
- *Elements of sustainable agriculture.
- *Application of biotechnology in crop improvement.
- *Management of agriculture produces.

Project

Environment education cannot be effectively imparted only through classroom teaching. It needs to be supplemented by a whole gamut of activities that involves the affective and psychomotor domains. It is necessary to work on projects which involve

- Collection of information on various issues related to the environment.
- Collection of pictures and articles pertaining to different environment related topics.
- Collection of statistical data related to the degradation of the environment and less of biodiversity due to human activities.
- Creating awareness in the society through campaigns and programs.
- To correctly interpret and suggest preventive measures to check the degradation of the environment.