PROGRAM OUTCOME:

Introduction: Environmental Education & Awareness

The goals of Environmental education are to develop a world population that is aware of and concerned about, total environment and its associated problems, and commitment to work individually and collectively towards solution of current problems and the prevention of new ones. In our college a number of new objectives and guiding principles for developing environment of education at all levels in both formal and non-formal levels are formulated.

OBJECTIVES:

1. Awareness i.e. acquire an awareness of and sensitivity to the total environment and its allied problems.
2. Knowledge i.e. gain a variety of experiences and acquire a basic understanding of the environment and its associated problems.
3. Attitude i.e. acquire a set of values and feelings of concern for the environment and the motivation for active participation in environmental improvement and protection.
4. Skill i.e. acquire skills for identifying and solving environmental problems.
5. Evaluation ability i.e. evaluate environmental measures and education programmes in terms of ecological, economic, social, aesthetic and educational factors.
6. Participation i.e. provide an opportunity to be actively involved at all levels in working towards the resolution of environmental problems.

PROGRAM SPECIFIC OUTCOMES:

In our college Environmental studies is given as a compulsory ability enhancement course to all the undergraduate students i.e. B.Sc, B.com, B.A and B.B.A. Students study this subject in their I year of graduation. The program specific outcomes are:

- To be interdisciplinary in approach.
- To emphasize active participation in prevention and solution to environmental problems.
- To examine major environmental issues from local, national, regional and international points of view.
- To focus on current, potential environmental situations.
- To consider environmental aspects in plans for growth and development.
- To emphasize the complexity of environmental problems and need to develop critical thinking and problem solving skills.

- To utilize diverse learning about environment and different approaches to teaching and learning about environment.
- To help learners to discover the symptoms and the real causes of environmental problems.
- To relate environmental sensitivity, knowledge, problem-solving and values classification.
- To enable learners to have a role in planning their learning experiences and provide an opportunity for making decisions and accepting their consequences.

PROGRAM SYLLABUS:

ENVIRONMENTAL SCIENCE

UNIT I: Environment and pollution:

- Definition and scope of Environmental Science.
- Structure, function and Types of Ecosystems.
- Energy flow in the ecosystems, ecological succession, food chains, food webs and ecological pyramids.
- Air, water, soil and Noise pollution.
- Control measures of pollution.

UNIT II: Nature Conservation and Environmental Management:

- **N**atural resources: Forests, water, Mineral and Food resources.
- Energy resources: renewable and Non-renewable energy resources.
- Conservation of Natural resources.
- Urban and industrial waste and watershed management.

UNIT III: Energy and Remote Sensing:

- Sources of energy: Fossil fuels, Bio energy, Nuclear energy, Wind energy, Hydroelectricity, Geothermal energy, Hydro- thermal, solar energy.
- Applications of remote sensing in environmental studies. Land use, Land cover, waste lands and forest fires.

UNIT IV: EIA and Environmental protection:

- Concepts and objectives of EIA, EIS and environmental inventory.
- National Environmental Policy Act and EIA guidelines – 1994.
- Climate change, global warming, acid rain, ozone layer depletion. Air, water, wildlife and environmental protection act. Social forestry.