

B.Ed ELECTIVE COURSE III ENVIRONMENTAL EDUCATION

Objectives:

At the end of the course, the student- teachers will be able to

- understand the concept of environment and ecology
- To understand environmental education and its importance
- To understand the causes for environmental hazards and pollution
- To understand the causes for environmental degradation
- To understand the need for remedial ways to protect the environment in daily life and its application
- To acquire knowledge of environmental issues and policies in India
- To acquire knowledge about the international efforts for environmental protection
- To understand the status of environmental education in school curriculum
- To understand the curriculum and methods in environmental education
- To acquire knowledge about the different methods of teaching in environmental education
- To acquire knowledge of the tools and techniques for the evaluation of environmental education

UNIT I Objectives, Scope and Nature of Environmental Education

- a) Meaning, definition and characteristics of environmental education – content.
- b) Importance, objectives, scope and guiding principles of environmental education.
- c) Factors of degradation of environment – adverse socio – economic impacts of degradation of environment.

UNIT II Environmental Education and Pollution

Meaning and definition of Environmental hazards and pollution – Types of environmental hazards and disaster – Types of pollution: Land, Air, Water, Noise, and Radiation- Green house effect- Ozone layer depletion.

UNIT III Environmental Management and Protection

Need for environmental management – function and characteristics of environmental management – dimensions of environmental management.

Factors responsible for flora and fauna extinction – Measures to conserve flora and fauna.- causes for forest fire- measures of prevention

UNIT IV India and Environmental Issues and Policies

Major environmental problems in India – Environmental protection and policies in India – Need and objectives of conservation – Environmental conservation measures taken in India – Constitutional amendments made and Environmental laws

UNIT V Environmental Movements and Developments

Environmental movements in India: Silent Valley movement, Chipko movement, Narmada Bachao, Andolon, National Test Range at Baliupal, Orissa – conditions for achieving the goals of sustainable development – Strategies for sustainable development in India.

UNIT VI International Efforts for Environmental Protection

The Stockholm conference 1972 – Brundtland commission 1983 – Nairobi conference 1982 – The Rio Summit 1992 – the Rio Declaration at the earth charter – Major achievements of the Rio Summit – Main features of the Rio Declaration – Kyoto conference and part on Global Warming 1997.

UNIT VII Environmental Education in the School Curriculum

Environmental education at Primary, Secondary and Higher Education level – Major constraints for its implementation at these level - Teacher's role – national resource center for environmental education.

UNIT VIII Environmental Education and Educational Technology

Impact of Science and technology on environment – degradation of resources – Role of individual in conservation of natural resources- Role of information technology in environmental and human health.

UNIT IX Methods of Teaching in Environmental Education

- a) Characteristics of good teaching method.

- b) Seminar, Workshop, Problem – solving, Field trips and Surveys, Projects, Exhibition and other methods.
- c) Relative efficiency of teaching methods.

UNIT X Evaluation approach of Environmental Education

Evaluation: Meaning, aims – Different types of test and examination for assessment- prepare a blue print and question paper.

SUGGESTED REFERENCE BOOKS:

Sharma, R. A. (2008). *Environmental Education*. Meerut: R.Lall Books Depot.

Sharma, B. L., & Maheswari, B. K. (2008). *Education for Environmental and Human value*. Meerut: R.Lall Books Depot.

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Bondurant, J. V. (1996). *Teaching tolerance: Raising open minded Emphatic Children*. New York: Doubleday.

Ingelstam, M. (1996). *Empowered for peace service: A curriculum for education and training in violence prevention, non-violence conflict transformation and peace building*. Stockholm: Christian Council of Sweden.

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