

B.Com. (Hons.): Semester-III
AECC
BCM381: ENVIRONMENTAL SCIENCE

Teaching Scheme	Examination Scheme
Lectures: 2 hrs/Week	Class Test – 6 Marks
Tutorials: 1 hr/Week	Teachers Assessment – 3 Marks
Credits: 2	Attendance – 6 Marks
	End Semester Exam – 35 Marks

Course Objective

The main objective of environment education is to provide every person with opportunities to acquire the knowledge, values, attitudes, commitment, and skills needed to protect and improve the environment; to create new patterns of behavior of individuals, groups, and society as a whole towards the environment.

Course Learning Outcomes

After completing the course, the student shall be able to:

- CO1: describe the various types of natural resources.
- CO2: differentiate between various biotic and abiotic components of ecosystem.
- CO3: examine the values, threats of biodiversity, the methods of conservation, endangered and endemic species of India.
- CO4: illustrate causes, effects, control measures of various types of environmental pollutions.
- CO5: enumerate the significance of Government and non-governmental organization in environment protection.
- CO6: explain the methods of water conservation, causes, effects of climate change, global warming, acid rain and ozone layer depletion, various types of disasters and their mitigation measures.

Unit I
Ecology and environment; Concept and definition, Scope & Importance, Need for Public Awareness, Environmental Education. Eco System-Types, Food chain, Food-web, Ecological pyramids.
Unit II
Natural Resources- Water, minerals and forests, Material cycles-Carbon, Nitrogen and Water Cycle Energy – Different types of energy. Conventional and Non-Conventional.
Unit III
Environmental Pollution and their effects; Water, Land, Noise, Air & Automobile pollution. Solid waste management. Population Growth, Climate Change and Global warming- Effects.
Unit IV
Environmental Protection- Role of Government, Initiatives by Non-governmental Organizations (NGO).
Unit V

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Project Activity: Project Report in the field - Air pollution area, water pollution area and noise pollution area.

Suggested Readings

Environmental Studies , Benny Joseph: Tata McGraw Hill, 2005.
Environmental Studies, Dr. D.L. Manjunath; Pearson Education-2006.
Environmental studies, R. Rajagopalan; Oxford Publication – 2005.
Text book of Environmental Science & Technology, M. Anji Reddy, BS Publication, Revised edition.

∴ Latest edition of readings may be used.

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