

B.Com (Hons.) (CBCS)
Semester -II
Ability Enhancement Compulsory Course
AE 202-Environmental Science (2Credit)

Lectures:30

Full Marks: 50 (Internal Assessment 10 + 40 End-Term)

Unit I: Ecosystems

10 Lectures

Ecosystem-Structure and function of ecosystem (Abiotic and biotic factors); Energy flow in an ecosystem.

Environmental Problems: Global warming and Climate change, ozone layer depletion, Deforestation, acid rain; impacts of environmental disturbances.

Unit II: Natural Resources and Biodiversity

10 Lectures

Energy resources: Renewable and non-renewable energy sources. Biodiversity patterns and global biodiversity hot spots, India as a mega-diversity, Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.

Unit III: Environmental Pollution, Impact and Management

10 Lectures

Environmental pollution: Air, water, soil and noise pollution, Nuclear hazards and human health risks, solid waste management: Control measures of urban and industrial waste.

Environmental Protection Act and International agreements: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD).

Unit wise distribution of marks shall be same for all the disciplines

Suggested Readings:

1. Carson, r. 2002 Silent Spring. Houghton MifflinHarcourt.
2. Gadgil, M., & Guha, R. 1993. This Fissured Land: An Ecological History of India. University of California Press.
3. Gleeson, B. and Low, N. (eds) 1999. Global Ethics and Environment, London, Routledge.
4. Gleick, P.H. 1993. Water in Crisis. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford University Press.
5. Groom, Martha J., Gary K. Meffe, and Carl Ronald Carroll. Principles of conservation Biology. Sunderland: Sinauer Associates, 2006.