

Syllabus for BA / B. Sc /B.Com/B. Sc. IT /BBA /BCA/BMMMC/OC&MIL

(Semester 1st) (UGSCBCS)

Ability Enhancement Compulsory Course (AECC–II: Environment Studies)

Effective from Academic Session 2016 and onwards

Credits = 02 (30 hours)

Note: *Examination of all the four units of Environment Studies shall be conducted at the time of 2nd Semester End Examination)*

Unit I: Understanding Environment

15 hours

- 1.1. Environment: concept and importance
- 1.2. Components of environment: Physical, Biological and Social
- 1.3. Ecosystem Definition, Structure and Function
 - 1.3.1 Producers, Consumers and Decomposers
 - 1.3.2 Food chains, Food webs and Ecological pyramids
 - 1.3.3 Energy flow in an Ecosystem
- 1.4 Ecosystem services: Ecological, economic, social, aesthetic and Informational value.

Unit II: Natural Resources

15 hours

- 2.1 Land resources: global land use patterns, concept land degradation and desertification
- 2.2 Forest resources: Use and consequences of over-exploitation
- 2.3 Water resources: Use and consequences of over-utilization, concept of water harvesting and watershed management, water conflicts
- 2.4 Energy resources: Renewable and non-renewable energy sources, growing energy needs and alternate energy sources

Books Recommended:

1. Bharucha, Erach, 2005. Text Book of Environmental Studies. Universities Press (India), Hyderabad.
2. Joseph, Benny, 2005. Environmental Studies. McGraw Hill Companies
3. De, Anil Kumar and De, Arnab Kumar, 2nd edition. New Age International Publishers
4. Kanagasabai, S. 2010. Textbook on Environmental Studies. PHI Learning
5. Sharma, P. D. 2015. Ecology and Environment.
6. Chauhan, B.S. 2008. Environmental Studies. University Science Press
7. Kaushak & Kaushak. 2016. Perspectives in Environmental studies.
8. Jaiswal, P.S. 2007. Environmental Law. Pioneer Publications, Delhi.
9. Ghosh, G.K. 1992. Environmental pollution. Ashish Publication, Delhi.