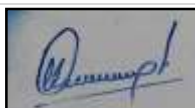


BBA II Year	BBA-I306		Semester-III		
	Environment Studies				
Time Allotted for End Semester Examination	Marks Allotted for Internal Assessment	Marks Allotted for End Term Examination(ESE)	Maximum Marks (MM)	Total Credits	Maximum Hours
3 Hrs.	30(20+10)	70	100	03	30

	Course Outcomes:	Mapped Program Outcomes
CO.1	Facilitate students' understanding of complex environmental issues from a problem-oriented, interdisciplinary perspective.	PO.1
CO.2	To increase public awareness about environmental issues, explore possible solutions, and to lay the foundations for a fully informed and active participation of individual in the protection of environment and the prudent and rational use of natural resources.	PO.1 PO.2 PO.5
CO.3	Understand the transnational character of environmental problems and ways of addressing them, including interactions across local to global scales.	PO.1
CO.4	To inculcate knowledge, skills, attitudes, motivations and commitment to students to work individually and collectively towards solutions of current environmental problems .	PO.2 PO.8
CO.5	Understanding concepts such as bio diversity and the impact of human population on the environment.	PO.1

- Environmental studies: Concept, nature and scope; Ecosystem: Concept, structure and functions; Energy flow in ecosystem, food chain, food web, ecological pyramids; Introduction, types, characteristic features, structure, function and study of forest, grassland, desert and aquatic ecosystems; Need for public awareness; Major environmental issues: Global warming, ozone depletion and acid rain; Human rights; Value education  
(10 Hours)
- Natural resources: Renewable and non-renewable resources; Natural resources and associated problems: a) Forest resources: Deforestation, case studies, mining, dams and their effects on forest and tribal people; b) Water resources: Use and over-utilization of water, dams- benefits and problems; c) Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies; d) Food resources: Effect of modern agriculture, fertilizer-pesticide problems, case studies; e) Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, case studies; f) Land resources: Soil erosion and desertification; Role of an individual in conservation of natural resources.  
(10 Hours)
- Environmental pollution: Definition, causes, effects and control measures of: Air pollution, Water pollution, Soil pollution, Noise pollution, Nuclear hazards; Pollution case studies; Solid waste management; Role of an individual in prevention of pollution; Disaster management: floods, earthquakes and landslides; Salient features of following acts: Environment protection act, Air (prevention and control of pollution) act, Water (prevention and control of pollution) act, Wildlife (protection) act, Forest (conservation) act.  
(10 Hours)
- Biodiversity: Definition, types and values; Bio-geographical classification of India; India as a mega diversity nation; Hotspots of biodiversity and threats to biodiversity; Endangered and endemic species of India; Common plants and birds of India; Conservation of biodiversity: *In-situ* and *Ex-situ* conservation approaches; Sustainable development; Rain water harvesting; Resettlement and rehabilitation of people; Environmental ethics: Issues and possible solutions; Wasteland reclamation; Environment and human health; HIV/AIDS; Role of information technology in environment and human health. Human population growth: Impacts on environment, human health and welfare. Environmental movements: Chipko, silent valley, Bishnois of Rajasthan. Environmental ethics: Role of Indian and other religions and cultures in environmental conservation.  
(10 Hours)



### **SUGGESTED READINGS:**

1. Harley, Nick (2016). *Environmental Economics*. Delhi: MacMillan India Ltd.
2. Kolstad, Charles, D. (2000). *Environmental Economic*. USA: Oxford University Press.
3. Kormondy E. J. (2012). *Concepts of ecology*. New Delhi: Printice Hall of India Pvt. Ltd.
4. Cunningham, W. P. and Cunningham, M. A. (2020). *Principles of environmental science: Inquiry and applications*. McGraw-Hill Publishing Company Limited.

**NOTE:** The list of cases, specific references and books including recent articles will be announced in the class by concerned teachers from time to time.

