

B.Sc. Forensic Science: Semester-I FST104: Environmental Science	
Teaching Scheme	Examination Scheme
Lectures: 2 hr/Week Credits: 2	Internal Assessment – 15 Marks
	External Assessment – 35 Marks
	End Semester Exam – 50 marks

Course Objective: To make the students familiar with-

1. The Environment and its components
2. Population Ecology and Movements related to Environment in India
3. Natural Resources and related Laws

**Unit 1: The Environment**

The Atmosphere, Hydrosphere, Lithosphere, Biosphere, Ecology, Ecosystem, Biogeochemical Cycle (Carbon Cycle, Nitrogen Cycle),  
Environment Pollution: Air Pollution, Water Pollution, Soil Pollution, Radiation Pollution.

**Unit 2: Population Ecology**

Individuals, Species, Pollution, Community, Control Methods of Population, Urbanization and its effects on Society, Communicable Diseases and its Transmission, Non-Communicable Diseases.

**Environmental Movements in India**

Grassroot Environmental movements in India, Role of women, Environmental Movements in Odisha, State Pollution Control Board, Central Pollution Control Board.

**Unit 3: Natural Resources**

Conservation of Natural Resources, Management and Conservation of Wildlife, Soil Erosion and Conservation  
**Environmental Laws:** Water Act, 1974, Air Act, 1981, The Wildlife (Protection) Act, 1972,  
Environment Protection, 1986, Natural Disasters and their Management.

**Suggested Readings**

1. William P. Cunningham, Mary Ann Cunningham, Barbara Woodworth Saigo, Environmental Science: A global concern, McGrawHill 2003
2. William Cunningham, Mary Cunningham, Principles of Environmental Science: Seventh Edition, McGrawHill 2014
3. Roosa SA, Sustainable Development Handbook, CRC Press 2008
4. Atkinson G., Dietz S., Neumayer E., Agarwala M, Handbook of Sustainable Development, Edward Elger, 2014
5. Robbins P., Hintz J., Moore S.A., Environment and Society: A critical introduction, Wiley Blackwel 2014
6. Rogers PP, Jalal, KF, Boyd JA, An introduction to sustainable development, Earthscan

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Head

Department of Biotechnology  
Invertis University Bareilly (U.B.)

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Dean

Faculty of Science  
Invertis University Bareilly (U.B.)

*[Signature]*  
Registrar  
Invertis University  
Bareilly