

**U.G Semester- I**  
**(B.Sc/B.A./B.Com) CBCS**  
**Environmental Studies**

**AECC-2 (2 hrs./week)**

**Credits – 2**

**(30 hours)**

**UNIT - I: Ecosystem, Biodiversity & Natural Resources**

**(15 hrs.)**

1. Definition, Scope & Importance of Environmental Studies.
2. Structure of Ecosystem – Abiotic & Biotic components Producers, Consumers, Decomposers, Food chains, Food webs, Ecological pyramids)
3. Function of an Ecosystem :Energy flow in the Ecosystem ( Single channel energy flow model )
4. Definition of Biodiversity , Genetic, Species & Ecosystem diversity , Hot-spots of Biodiversity, Threats to Biodiversity, Conservation of Biodiversity (Insitu & Exsitu)
5. Renewable & Non – renewable resources, Brief account of Forest , Mineral & Energy (Solar Energy & Geothermal Energy) resources
6. Water Conservation, Rain water harvesting & Watershed management.

**UNIT – II: Environmental Pollution, Global Issues & Legislation**

**(15 hrs.)**

1. Causes, Effects & Control measures of Air Pollution, Water Pollution
2. Solid Waste Management
3. Global Warming & Ozone layer depletion.
4. Ill – effects of Fire- works
5. Disaster management – floods, earthquakes & cyclones
6. Environmental legislation :-  
(a) Wild life Protection Act (b) Forest Act (c) Water Act (d) Air Act
7. Human Rights
8. Women and Child welfare
9. Role of Information technology in environment and human health

**❖ Field Study:**

**(5 hours)**

- Pond Ecosystem
- Forest Ecosystem

**REFERENCES:**

- Environmental Studies - from crisis to cure – by R. Rajagopalan (Third edition) Oxford University Press.
- Text book of Environmental Studies for undergraduate courses (second edition) by Erach Bharucha
- A text book of Environmental Studies by Dr.D.K.Asthana and Dr. Meera Asthana

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AECC-2

ENVIRONMENTAL STUDIES

Credits – 2

THEORY MODEL PAPER

TIME: 1<sup>1/2</sup> HOURS

MAX MARKS: 40

SECTION -A

Write the short notes on any **Four** of the following 4x4=16

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

SECTION- B

Answer the following essays:

2x12=24

1 (a) Define Environmental Studies & write an essay on scope & Importance of Environmental Studies

OR

(b) Write in details about Energy resources.

2 (a) Write the Causes, Effects & Control measures of Air Pollution

OR

(b) Describe the role of Information technology in environment and human health

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**ENVIRONMENTAL STUDIES  
INTERNAL ASSESSMENT MODEL PAPER**

**1 HOUR**

**10 MARKS**

**ANSWER THE FOLLOWING QUESTIONS**

**(5x2=10)**

- 1.
- 2.
- 3.
- 4.
- 5.