

FOR ENGINEERING DIPLOMA LEVEL CORE SUBJECT

For the branches in Electrical, Instrumentation, Electronics

1. **Subject Code:** _____ **Course Title: Environmental Science**

2. **Contact Hours: L: T: P:**

3. **Examination Duration (Hrs.): Theory :** _____ **Practical :** _____

4. **Relative Weightage : CWS PRS MTE ETE**
PRE

5. **Credit:** _____

6. **Semester:**

Autumn

Spring

Both

7. **Pre-requisite:** NIL

8. **Subject Area:** _____

9. **Details of Course:**

10. **Details of Course:**

Sl. No.	Particulars	Contact Hours
1.	Introduction To Environment: Definition and scope, components of environment, atmosphere, hydrosphere, litosphere and biosphere, structure and composition	5
2.	Introduction To Biological Systems: Life systems, pro and eukaryotic organizations, Metabolic principles; types of plants and animals. Producers, consumers and decomposers.	4
3.	Concept of Ecology: Terminology and approach, ecosystem, types of ecosystems; structure and function, mineral cycling, energy flow and trophic chains. Development and evolution.	10
4.	Environmental Pollution: Sources, causes, assessment, effect, prevention and control of water pollution, air pollution noise and land pollution.	6
5.	Natural Resources: Strategies of management, concept of sustainability. Energy and environment and their relationship with human activities. Water Resources and utilisation, forest resources.	5
6.	Global Environmental Problems: Human health, settlements, management of rivers, lakes, forests, wild life and catchments. Role of society, NGO and Govt. agencies. Concept of urbanization and green cities Global Warming, green house causes and effects, carbon sequestration.	6
7.	International agreements and protocols, National forest policy and Environmental laws and acts. EIA	4
8.	Some important case histories of environmental degradation.	3

Suggested Readings: