

## Lesson Plan (2025-26)

**Name** : Smt.Sonia  
**Discipline** : Civil Engg.  
**Semester** : 2<sup>nd</sup>  
**Subject** : ES&DM  
**Code** : 250026  
**Duration** : 15/01/26 - 30/04/26  
**Load** : 2 Lectures per week

Lecture No.	Lecture Topic
1.	Basics of Ecology, Eco system Concept and sustainable development
2.	Sources,advantages, disadvantages of renewable and non-renewable energy
3.	Rain Water Harvesting,Deforestation – its effects and control measures
4.	Air and Noise Pollution: Air Pollution: Source of Air Pollution
5.	Effect of Air Pollution on Human Health, Economy, Air Pollution control Methods
6.	Noise Pollution: Sources of Noise Pollution, unit of noise,Effect of Noise Pollution, Acceptable Noise Level, different methods of minimizing Noise Pollution
7.	Revision of Above topics
8.	Water and Soil Pollution: Water Pollution: Impurities in water, Cause of water Pollution
9.	Sources of water Pollution, Effect of water pollution on human health
10.	Concept of DO, BOD, COD, Prevention of water Pollution- water treatment processes
11.	Sewage treatment ,Water quality standard
12.	Soil Pollution: Sources of soil Pollution, Effect and control of soil pollution
13.	Type of solid waste- House hold, Industrial, Agricultural, Bio-Medical, Disposal of Solid waste.
14.	Solid waste management E-waste ,E-waste management
15.	Impact of Energy Usage on Environment: Global Warming ,Green House Effect, Depletion of Ozone Layer
16.	Acid Rain, Eco Friendly Material, Recycling of Material, Concept of Green Building
17.	Concept of Carbon credit and Carbon Foot Print, Disaster Management: Different type of Disaster
18.	Natural Disasters such as Flood, Cyclone,Earth Quake and Landslides etc., Manmade Disasters such as Fire, Industrial Pollution, Nuclear Disasters, biological Disasters.
19.	Accidents (Air, Sea, Rain and Road) , Structural Failures (Building and Bridges), War and Terrorism
20.	Disaster Preparedness plan, Prediction
21.	Early warnings and safety measures of Disaster Psychological Response
22.	Management of Trauma, Stress, Rumour and Panic
23.	Revision
24.	Discussion of Previous Question Paper

**Note:** There will be class Tests, Assignments, Sessional Exams and Quizzes etc. will be given as per Academic Calendar.

Faculty Smt. Sonia

*(Signature)*  
13/01/26

PAC Member 1

*(Signature)*  
13/01/26

PAC Member 2

*(Signature)*  
Jyoti

PAC Member 3

