

Govt. Polytechnic Education Society, Manesar (Gurugram)

Faculty name : POOJA
Discipline : Computer Engineering
Semester : 2
Subject : Environmental Studies and Disaster Management
Duration of Lesson Plan : 15 weeks (20 January-15 May 2025)
Work Load per week : Lectures -02 Hours

Week	Theory	
	Lecture day	Topic (including assignment/test)
1 st	1 st	Unit-1 Introduction and basic discussion about our Environment. Basics of Ecology
	2 nd	Ecosystem- concept and sustainable development
2 nd	1 st	Renewable and Non-renewable resources
	2 nd	Advantages, disadvantages of renewable and nonrenewable energy
3 rd	1 st	Rain water harvesting
	2 nd	Advantages, disadvantages of Rain water harvesting
4 th	1 st	Deforestation – its effects.
	2 nd	Deforestation – its control measures
5 th	1 st	UNIT-II: Air and Noise Pollution Air Pollution: Source of air pollution, Effect of air pollution on human health.
	2 nd	Assignment-1 Sessional Test-1
6 th	1 st	Effect of air pollution on economy. Air pollution control methods.
	2 nd	Noise Pollution: Source of noise pollution. Unit of noise. Effect of noise pollution, Acceptable noise level, Different method of minimizing noise pollution.
7 th	1 st	UNIT III Water and Soil Pollution Water Pollution: Impurities in water, Cause of water pollution, Source of water pollution
	2 nd	Effect of water pollution on human health, Concept of DO, BOD, COD.
8 th	1 st	Prevention of water pollution- Water treatment processes, Sewage treatment. Water quality standard.
	2 nd	Soil Pollution :Sources of soil pollution, Effects and Control of soil pollution
9 th	1 st	Types of Solid waste- House hold, Industrial, Agricultural, Biomedical, Disposal of solid waste

	2 nd	Solid waste management E-waste, E – waste management.
10 th	1 st	Assignment-2 Sessional Test-2
	2 nd	UNIT IV Impact of Energy Usage on Environment Global Warming, Green House Effect, Depletion of Ozone Layer.
11 th	1 st	Global Warming, Green House Effect, Acid Rain. Eco-friendly Material
	2 nd	Recycling of Material
12 th	1 st	Concept of Green Buildings, Concept of Carbon Credit
	2 nd	Concept of Green Buildings, Concept of Carbon footprint.
13 th	1 st	UNIT V Disaster Management Different Types of Disaster
	2 nd	Natural Disaster: such as Flood, Cyclone, Earthquakes and Landslides etc
14 th	1 st	Man-made Disaster: such as Fire, Industrial Pollution, Nuclear Disaster
	2 nd	Biological Disasters, Accidents (Air, Sea Rail & Road)
15 th	1 st	Structural failures(Building and Bridge), War & Terrorism etc
	2 nd	Disaster Preparedness Plan, Prediction, Early Warnings and Safety Measures of Disaster.
16 th		Assignment-3 Sessional Test-3