Government Polytechnic Dhanagar

Lesson Plan

Name- Ms. Bhawna Rani

Discipline- Applied Science

Semester – 1st Sem

Subject – environmental studies and disaster management

Duration – 16 weeks (2022-23)

Work load (per week):- lectures-02

Week	Theory	
	Lect. day	Topic
1st	1st	**UNIT I** **Introduction:** Basics of ecology,eco system- concept,
	2nd	sustainable development,
2nd	1st	Sources, advantages, disadvantages of renewable and nonrenewable energy.
	2nd	Rain water harvesting
3rd	1st	Deforestation – its effects & control measures
	2nd	**Revision**
4th	1st	**Revision**
	2nd	**Revision**
5th	1st	**UNIT II** **Air and Noise Pollution:** Air Pollution: Source of air pollution.Effect of air pollution on human health,
	2nd	economy, Air pollution control methods.
6th	1st	Noise Pollution: Source of noise pollution,
	2nd	Unit of noise,
7th	1st	Effect of noise pollution, Acceptable noise level,

	2nd	*Different method of minimizing noise pollution.*
8th	*1st*	*Water Pollution: Impurities in water, Cause of water pollution,*
	2nd	*Source of water pollution.* *Effect of water pollution on human health,*
9th	*1st*	*Concept of DO, BOD, COD. Prevention of* *water pollution-*
	2nd	*Water treatment processes, Sewage treatment. Water quality standard.*
10th	*1st*	*Soil Pollution :Sources of soil pollution, Effects and Control of soil pollution,*
	2nd	*Types of* *Solid waste- House hold, Industrial, Agricultural, Biomedical,*
11th	*1st*	*Disposal of solid waste,*
	2nd	*Solid waste management E-waste, E – waste management*
12th	*1st*	***UNIT IV*** ***Impact of Energy Usage on Environment***
	2nd	*Global Warming, Green House Effect,*
13th	*1st*	*Depletion of Ozone Layer, Acid Rain. Eco-friendly* *Material,*
	2nd	*Recycling of Material,*
14th	*1st*	*Concept of Green Buildings,*
	2nd	*Concept of Carbon Credit &* *Carbon footprint.*
15th	*1st*	*UNIT V* *Disaster Management* *A. Different Types of Disaster:* *Natural Disaster: such as Flood, Cyclone, Earthquakes and Landslides*
	2nd	*Man-made Disaster: such as Fire, Industrial Pollution, Nuclear Disaster, Biological Disasters,*
16th	*1st*	*Accidents (Air, Sea Rail & Road), Structural failures(Building and Bridge), War & Terrorism* *etc.*
	2nd	*B.Disaster Preparedness:* *Disaster Preparedness Plan* *Prediction, Early Warnings and Safety Measures of Disaster* *Psychological response and Management (Trauma, Stress, Rumour and Panic)*