Name of Faculty: TAVINDER SINGH

Discipline:MECHANICAL ENGG.Semester:1stSubject:Environmental Studies and Disaster ManagementLesson Plan Duration:15 Weeks

W 7. 1	Test	
Week	Lecture Day	Theory Topic (including assignment/ test)
1+		
1st	1	UNIT 1: Introduction Basics of ecology, eco system- concept, and sustainable development.
	2	Sources, advantages, disadvantages of renewable and nonrenewable energy
2nd	3	Rain water harvesting.
	4	Deforestation – its effects & control measures.
3rd	5	UNIT II Air and Noise Pollution: Source of air pollution. Effect of air pollution on
		human health, economy.
	6	Air pollution control methods.
4th	7	Noise Pollution: Source of noise pollution, Unit of noise, Effect of noise pollution.
	8	Acceptable noise level, Different method of minimizing noise pollution.
5th	9	UNIT III Water and Soil Pollution Water Pollution: Impurities in water, Cause of
	10	water pollution.
	10	Source of water pollution.
6th	11	Effect of water pollution on human health, Concept of DO, BOD, COD.
	12	Prevention of water pollution- Water treatment processes.
7th	13	Sewage treatment. Water quality standard.
	14	Soil Pollution : Sources of soil pollution, Effects and Control of soil pollution.
8th	15	Types of Solid waste- House hold, Industrial, Agricultural, Biomedical.
	16	Disposal of solid waste.
9th	17	Solid waste management E-waste, E – waste management
	18	UNIT IV Impact of Energy Usage on Environment Global Warming, Green House Effect, Depletion of Ozone Layer.
10th	19	Acid Rain. Eco-friendly Material.
	20	Recycling of Material.
11th	21	Concept of Green Buildings.
	22	Concept of Carbon Credit & Carbon footprint.
12th	23	UNIT V Disaster Management A. Different Types of Disaster : Natural Disaster: such as Flood, Cyclone.
	24	Earthquakes and Landslides etc.
13th	25	Man-made Disaster: such as Fire, Industrial Pollution and Nuclear Disaster.
	26	Biological Disasters, Accidents (Air, Sea Rail & Road), Structural failures(Building and Bridge), War & Terrorism etc.
14th	27	B.Disaster Preparedness: Disaster Preparedness Plan
	28	Prediction, Early Warnings and Safety Measures of Disaster.
15th	29	Psychological response and Management (Trauma, Stress, Rumour and Panic).
	30	Revison