

Name of the Faculty: Bhawna Rani

Discipline: Computer Engg.

Subject: Environmental Studies

Semester: 2nd

Work Load (Lecture/ Practical) per week(in hours): Lecture -03 Practical- Nil		
Week	Theory	
	Lecture Day	Topic (including assignment/test)
1st	1st	Basics of ecology, eco system-concept
	2nd	Structure and importance of ecosystem
	3rd	Carbon, Nitrogen, Sulphur cycle
2nd	1st	Sustainable development
	2nd	Conservation of land reforms, preservation of species
	3rd	prevention of advancement of desert sand, lowering of water table
3rd	1st	Rain water harvesting, Acid Rain
	2nd	Maintenance of ground water, Water supply engineering
	3rd	Deforestation – its effects and control measures
4th	1st	Pollution: Sources of pollution-natural and man made
	2nd	Classification of pollutants, Causes, effects and control measures of air pollution.
	3rd	Classification of pollutants, Causes, effects and control measures of water pollution.
5th	1st	Classification of pollutants, Causes, effects and control measures of noise pollution.
	2nd	Classification of pollutants, Causes, effects and control measures of soil pollution.
	3rd	Classification of pollutants, Causes, effects and control measures of radio-active pollution.
6th	1st	Classification of pollutants, Causes, effects and control measures of nuclear pollution.
	2nd	Prevention of Pollution: Introduction to Cleaner Production Technologies
	3rd	Physical treatment of pollutants
7th	1st	Chemical and biological treatment of pollutants
	2nd	Photocatalytic degradation of pollutants
	3rd	Waste Minimization Techniques – Chemical degradation of waste
8th	1st	Concept of Zero Discharge
	2nd	Solid waste management, classification of refuse material,
	3rd	Sources and effects of solid waste.
9th	1st	Solid waste control measures
	2nd	Introduction to E-waste Management
	3rd	Environmental Legislation - Water (prevention and control of pollution) Act 1974
10th	1st	Air (Prevention and Control of Pollution) Act 1981
	2nd	Environmental Protection Act 1986
	3rd	Role and Function of State Pollution Control Board

11th	1st	Environmental Impact Assessment (EIA)
	2nd	Introduction to Energy Conservation Act 2001
	3rd	Energy Conservation (Amendment) Act 2010 & its importance
12th	1st	Energy Conservation: Introduction to Energy Management
	2nd	Energy Conservation, Energy efficiency & its need
	3rd	Role of solar Energy in environmental protection.
13th	1st	Role of wind Energy in environmental protection.
	2nd	Role of Bio Energy in environmental protection.
	3rd	Role of Hydro Energy in environmental protection.
14th	1st	Impact of Energy Usage on Environment – Global Warming
	2nd	Green House Effect
	3rd	Depletion of Ozone Layer
15th	1st	Eco-friendly Material
	2nd	Recycling of Material
	3rd	Concept of Green Buildings