LESSON PLAN: ENVIRONMENTAL STUDIES

Name of the Faculty: Kapil Bhoria

Discipline: Computer Engineering

Semester: 2nd Semester

Subject: ENVIRONMENTAL STUDIES

Lesson Plan Duration: 15 weeks (from January, 2018 to

April, 2018)

Work Load (Lecture) per week (in hours): Lectures-03

Week	Lecture Day	Syllabus
1 st	1 st	Basics of ecology, eco system- concept
	2nd	Structure and importance of ecosystem, Carbon, Nitrogen, Sulphur cycle
	3rd	Sustainable development Assignment 1 topic : Ecology system
2nd	4th	Conservation of land reforms, preservation of species
	5th	Prevention of advancement of Desert sand lowering of water table, rain water harvesting
	6 th	Test
3rd	7th	Acid Rain, maintenance of ground water, Water supply engineering
	8th	Deforestation – its effects and control measures
	9th	Pollution: Sources of pollution - natural and manmade Assignment 2 topic: preservation of species
4th	10 th	Classification of pollutants
	11 th	Causes, effects and control measures of pollution (air, water, noise, soil, radioactive and nuclear)
	12th	Test
5th	13th	Prevention of Pollution: Introduction to Cleaner Production Technologies
	14th	Physical treatment of pollutants
	15 th	Chemical treatment of pollutants Assignment 3 topic: Pollution control
6 th	16 th	Biological treatment of pollutants

	17 th	Photo catalytic degradation of pollutants
	18 th	Test
	19 th	
	19"	Waste Minimization Techniques
7 th	20 th	Chemical degradation of waste
	21 st	Concept of Zero Discharge Assignment 4 topic: Waste minimization techniques
	22 nd	Solid waste management
8th	23 rd	Classification of refuse material
	24 th	Test
	25 th	Classification of sources
9th	26 th	Classification of effects and control measures
	27 th	Introduction to E-waste Management. Assignment 5 topic: Solid waste management
	28 th	Environmental Legislation
10 th	29 th	Water (prevention and control of pollution) Act 1974
	30 th	Test
	31 st	Air (Prevention and Control of Pollution) Act 1981
11 th	32 nd	Environmental Protection Act 1986
	33 rd	Role and Function of State Pollution Control Board
-	34 th	Environmental Impact Assessment (EIA)
12 th	35 th	Introduction to Energy Conservation Act 2001
,	36 th	Test
	37 th	Energy Conservation (Amendment) Act 2010 & its importance
13th	38 th	Energy Conservation: Introduction to Energy Management
	39 th	Work cell control. Assignment 6 topic: Different Acts of Water, Air, etc.
	40 th	Energy Conservation Energy efficiency & its need
14th	41st	Role of Non-conventional Energy Resources (Solar Energy, Wind
	42 nd	Energy, Bio Energy, Hydro Energy) in environmental protection
15 th	43 rd	Impact of Energy Usage on Environment – Global Warming, Green House Effect, Depletion of Ozone Layer Assignment 7 topic:
	44th	Energy conservation Eco-friendly Material: Recycling of Material, Concept of Green Buildings