

VAISH TECHNICAL INSTITUTE, ROHTAK

Lesson Plan

Name of the Faculty : Sanjay Tayal
 Discipline : Electronics and Communication Engg.
 Semester : 2nd
 Subject : Environmental Studies
 Lesson Plan Duration : Jan-Apr 2018
 Work Load (Lecture/Practical) per week : 03 Theory Lectures

WEEK	Lecture Day	THEORY
		TOPIC
1 st	1	UNIT-1. Introduction of Environmental Studies
	2	Basics of ecology
	3	Eco system- concept, Structure and importance of ecosystem
2 nd	4	Carbon, Nitrogen, Sulphur cycle
	5	Sustainable development
	6	UNIT-2 Conservation of land reforms
3 rd	7	Preservation of species
	8	Prevention of advancement of deserts and lowering of water table
	9	Rain water harvesting, Acid Rain,
4 th	10	maintenance of ground water, Water supply engineering
	11	Deforestation - its effects and control measures
	12	UNIT-3 Pollution: Sources of pollution - natural and manmade
5 th	13	Classification of pollutants
	14	Causes, effects and control measures of pollution (air, water)
	15	Revision
6 th	16	Sessional Test-1
	17	Causes, effects and control measures of pollution (noise, soil)
	18	Causes, effects and control measures of pollution (radioactive and nuclear)
7 th	19	Prevention of Pollution: Introduction to Cleaner Production
	20	physical, chemical and biological treatment of pollutants
	21	Photo catalytic degradation of pollutants
8 th	22	Waste Minimization Techniques - Chemical degradation of waste
	23	Concept of Zero Discharge
	24	UNIT-4 Solid waste management: Classification of refuse material
9 th	25	Refuse material sources, effects and control measures
	26	Introduction to E-waste Management
	27	UNIT-5 Environment Legislation: Water (prevention and control of pollution) Act 1974
10 th	28	Air (Prevention and Control of Pollution) Act 1981
	29	Environmental Protection Act 1986
	30	Revision
11 th	31	Sessional Test-2
	32	Role and Function of State Pollution Control Board
	33	Environmental Impact Assessment (EIA)

12 th	34	Introduction to Energy Conservation Act 2001
	35	Energy Conservation (Amendment) Act 2010 & its importance
	36	UNIT-6 Introduction to Energy Management: Energy Conservation, Energy efficiency & its need
13 th	37	Role of Non-conventional Energy Resources in environmental protection, Solar Energy
	38	Wind Energy
	39	Bio Energy and Hydro Energy
14 th	40	Impact of Energy Usage on Environment - Global Warming, Green House Effect
	41	Depletion of Ozone Layer
	42	UNIT-7 Ecofriendly material : Recycling of Material
15 th	43	Concept of Green Buildings
	44	Revision
	45	Sessional Test-3