

Name of Faculty:

ANIL KUMAR GOEL

Discipline:

CIVIL ENGINEERING

Semester:

VII<sup>th</sup>

Subject:

ENVIRONMENTAL ENGINEERING.

Lesson Plan Duration: 15 Weeks (From Jan. 2018 to Apr. 2018)

old April 13/18  
Vaish Technical Institute  
Receipt No. 1836/18  
Dated 13-12-18

	Lecture	Topic to be covered
Week I	1	Importance of Clean environment - Control of environmental pollution with respect to air, Land and water.
	2	Conservation of Natural Resources, environmental education and awareness. Sustainable Development.
	3	Environment & ecology concept, ecosystem and types of ecosystem.
Week II	4	Energy flow in an Ecosystem.
	5	Food chain, ecological pyramids.
	6	Consortium and ecological balance.
Week III	7	To discuss about different types of Pollution
	8	Causes of Pollution in surface and underground water.
	9	Eutrophication of lakes and its preventing measures.
Week IV	10	BIS standards for water Quality.
	11	Discussion on Air Pollution and general effects on living and non-living organism.
	12	Definition of Air Pollution, Air Pollutants.
Week V	13	Atmospheric Parameters for measuring air Pollution.
	14	Types of Air Contaminants and Sources.
	15	Types of Air Contaminants and Sources.
Week VI	16	Effects of Air Pollution on human being, plants, animals.
	17	Automobile Pollution, BIS ambient air quality standards, and measures to combat Air Pollution.
	18	General Discussion on Noise Pollution Definition and unit of measurement of noise.
Week VII	19	Sources and effects of Noise Pollution.
	20	Control of Noise Pollution.
	21	Effects of Mining, blasting and Deforestation.
Week VIII	22	All effects of Mining, blasting and deforestation on human and environment wild life.
	23	Effects of Land use on environmental Quality.
	24	Land use & natural disasters.
Week IX	25	Soil Degradation Problem :- Erosion

Week <u>IX</u>	26	Water logging and soil Pollution etc.
	27	Definition and Requirements of EIA.
Week <u>X</u>	28	Flow chart of EIA methodology.
	29	— do —
	30	Need and Importance of EIA.
Week <u>XI</u>	31	Legislation to Control Environmental Pollution
	32	— do — water, land and air Pollution control.
	33	— do — Provision, scope & Implementation.
Week <u>XII</u>	34	General discussion of Global Issues of E.E.
	35	Global Warming.
	36	Ozone Depletion.
Week <u>XIII</u>	37	Acid Rain, soil Pollution, Radiation hazards and control.
	38	Concept of Clean Technology and Carbon Credits.
	39	Repetition of Global Issues of Environment.
Week <u>XIV</u>	40	Discussion of Different Renewable Source of Energy.
	41	Role of Non-Conventional Sources of energy.
	42	Bio-gas, Solar, Wind etc. in Environment Protection
Week <u>XV</u>	43	— do —
	44	— do —
	45	Conservation of energy resources like coal, oil etc and alternative fuel; bio-diesel etc.