Lesson Plan/ Course Break – up

PEC-CVE350 -T Air and Nosie Pollution Control

Discipline	B. Tech in Civil Engineering
Semester	VI (3rd Year)
Subject	PEC-CVE-350-T, Air and Nosie Pollution Control
Work Load per week (in hrs.)	Lectures – 03

Week	Theory	
	Lecture day	**Topic (Including Assignment Test)**
1st	1	Air pollutants, Sources, classification,
	2	Combustion Processes and pollutant emission,
	3	Combustion Processes and pollutant emission,
2nd	4	Effects on Health, vegetation, materials and atmosphere
	5	Effects on Health, vegetation, materials and atmosphere
	6	Reactions of pollutants in the atmosphere and their effects,
3rd	7	Smoke, smog and ozone layer disturbance,
	8	Greenhouse effect.
	9	Air sampling
4th	10	pollution measurement methods,
	11	principles and instruments for pollution measurement,
	12	ambient air quality
5th	13	emission standards, Air pollution indices,
	14	Air Act, legislation and regulation
	15	Air Act, legislation and regulation
6th	16	Control principles
	17	Removal of gaseous pollutants by adsorption
	18	Removal of gaseous pollutants by absorption
7th	19	**MINOR TEST 1**
	20	
	21	
8th	22	Removal of gaseous pollutants by reaction and other methods.
	23	Particulate emission control,
	24	settling chambers,
9th	25	cyclone separation,
	26	Wet collectors, fabric filters,
	27	electrostatic precipitators
10th	28	electrostatic precipitators
	29	other removal methods like absorption,
	30	other removal methods like adsorption,
11th	31	other removal methods like precipitation etc.
	32	Biological air pollution control technologies, Indoor air quality
	33	Biological air pollution control technologies, Indoor air quality
12th	34	Noise pollution: Basics of acoustics and specification of sound
	35	sound power, sound intensity and sound pressure levels;
	36	plane, point and line sources, multiple sources; outdoor and indoor noise propagation;
13th	37	psychoacoustics and noise criteria, effects of noise on health,
	38	annoyance rating schemes; special noise environments: Infrasound, ultrasound, impulsive sound and sonic boom;
	39	annoyance rating schemes; special noise environments: Infrasound, ultrasound, impulsive sound and sonic boom;
14th	40	**MINOR TEST II**
	41	
	42	
15th	43	noise standards and limit values;
	44	noise instrumentation and monitoring procedure.
	45	Noise indices. Noise control methods