

SHAMBHUNATH INSTITUTE OF ENGINEERING AND TECHNOLOGY**DEPARTMENT OF CIVIL ENGINEERING****SUBJECT-NCE – 034 Industrial Pollution Control and Environmental Audit****LECTURE PLAN - Vinay Kumar mishra**

S.No.	Lecture No.	Topic	Book
UNIT I			Vayu education for IPC
1	1 to 2	Industrial wastes & their sources:	
2	3 to 4	various industrial processes, sources and types of wastes- solid	
3	5 to 6	liquid, ,	
4	7 to 8	gaseous	
5	9 to 10	noise	
6	11 to 12	radiation emissions	
7	13 to 14	Sources for industrial water usages and various industrial	
8		processes requiring water use	
9	15 to 16	characteristics of water sources	
UNIT II			
10	17 to 18	Processes responsible for deterioration in water quality	
11	19 to 20	Various waste water streams	
12	21 to 22	Control and removal of specific pollutants in industrial wastewaters,	
13	23 to 24	Wastewater re-uses & recycling, concept of zero discharge effluent	
UNIT III			
14	25 to 26	Control of gaseous emissions: hood and ducts, tall stacks, particulate and gaseous pollutant control	
15	27 to 28	Solid waste generation and disposal management;	
16	29 to 30	Hazardous wastes: definitions,	
17	31 to 32	concepts and management aspects; Noise & radiation: generation, control and management.	
UNIT IV			
18	33 to 34	Recent trends in industrial waste management, cradle to grave concept,	
19	35 to 36	life cycle analysis, clean technologies	
20	37 to 38	Case studies of various industries, e.g., dairy, fertilizer, distillery, sugar, pulp and paper, iron and steel, metal plating, thermal power plants, etc.	
UNIT 5			
21	39 to 40	Environmental audit: definitions and concepts	
22	41 to 42	environmental audit versus accounts audit	
23	43 to 44	compliance audit	
24	45 to 46	relevant methodologies	
25	47 to 48	various pollution regulations	
26	48 to 49	Introduction to ISO and ISO 14000	