

▪ SEMESTER:- IV

▪ COURSE NO.:- FCN-247

▪ COURSE TITLE:- ENVIRONMENTAL SCIENCE

▪ CREDITS:- 3(2+1)

➤ THEORY

NO. OF UNITS	TOPICS	NO. OF LECTURES
1	<i>Environmental science: An introduction</i>	1
2	<i>Ecosystem: kinds, structure, characteristics, functioning</i>	2
3	<i>Biochemical cycles</i>	1
4	<i>Natural resources and their managements</i>	2
5	<i>Environmental pollution.</i>	2
6	<i>Air pollution</i>	2
7	<i>Water pollution</i>	2
8	<i>Solid waste pollution</i>	2
9	<i>Noise pollution</i>	1
10	<i>Soil pollution</i>	2
11	<i>Radio active pollution</i>	1
12	<i>Food processing industry waste and its management</i>	2
13	<i>Management of urban waste water</i>	1
14	<i>Recycling of organic waste</i>	2
15	<i>Recycling of factory effluent</i>	2
16	<i>Control of environmental pollution through law</i>	2
17	<i>Composting of biological waste</i>	1
18	<i>Sewage, uses of water disposal effluent treatment, microbial examination</i>	2
	TOTAL	30

➤ PRACTICALS

NO. OF UNITS	TOPICS	NO. OF EXPT.
1	<i>Environment and its analysis</i>	1
2	<i>Water quality parameters</i>	2
3	<i>Collection of sample for pollution study</i>	2
4	<i>Determination of pH/ acidity/alkalinity from sample</i>	2
5	<i>Estimation of dissolved oxygen</i>	1
6	<i>Estimation of BOD</i>	2
7	<i>Estimation of COD</i>	1
8	<i>Estimation of nitrates</i>	1
9	<i>Estimation of phosphates</i>	1
10	<i>Estimation of pollutant elements</i>	1
11	<i>Estimation of heavy/ toxic elements</i>	2
12	<i>Estimation of lead / mercury</i>	1
13	<i>Visit to industrial sewage disposal unit</i>	1
	TOTAL	18

➤ *Reference Books:*

- *Environmental Biology* *Dr. K.C. Agrawal*
- *Fundamentals of Environmental Science* *G. S. Dhaliwal and G. S. Sanghai*