COURSE CODE: ENS-212

COURSE NAME: Environmental Pollution

CREDIT HOURS: Theory = 3 Practical = 0 Total = 3

CONTACT HOURS: Theory = 48 Practical = 0 Total = 48

PREREQUISITE: None

MODE OF TEACHING: Three hours of lecture per week

Course Description:

The course is focused on introducing environmental pollution and its sources. It will also cover the existing laws related to pollutants in Pakistan and the conventions ratified internationally.

TOPICS COVERED:

Week	Topic		
1	Environmental Pollution, sources, types and causes		
2	Types of pollutants: Physical, chemical and biological		
3	Characteristics of domestic & industrial effluents		
4	Effects of Pollutants on human & other living organisms		
5	Effects of Pollutants on human & other living organisms		
6	Industrial and Municipal Solid Waste		
7-8	Principles of Waste Management & Disposal		
9	Mid Semester Exam		
10	Fate of pollutants; Factors affecting movement of pollutants in soil, air and		
	water		
11	Fate of pollutants; Factors affecting movement of pollutants in soil, air and		
''	water		
12	Monitoring of Environmental Pollution		
13	Pollution Control Strategies		
14	Environmental Laws		

15	Pollutants Guidelines
16	International Protocols
17	Case Studies
18	End Semester Exam

Text and Material:

- 1. Understanding Environmental Pollution, Hill, M.K., 2nd Edition. Cambridge University Press, Cambridge UK.
- Environment Pollution: Types, Sources & Management. Ghafoor, A., G. Murtaza, M.Z. Rehman, M. Sabir, H.R. Ahmad and Saifullah. Allied Book Centre, Lahore, Pakistan. 2012.

ASSESSMENT SYSTEM:

Theoretical/Instruction	100%
Assignments	10%
Quizzes	15%
Mid Semester Exam	25%
End Semester Exam	50%
Practical Work	0%
Practical Work Lab Attendance	0%
Lab Attendance	0%