COURSE CODE:	ENS-422		
COURSE NAME:	Pollution Control Technologies		
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 objective of this course is to acquaint the students with the technological approaches used for controlling pollution. The students will become familiar with different technologies and modern techniques for their control and abatement.

TOPICS COVERED:

Week#	Topics	
1	Collection, treatment and distribution of drinking water supply	
2	Collection, treatment and distribution of drinking water supply	
3	Collection, treatment and disposal of municipal and industrial wastewater	
4	Collection, treatment and disposal of municipal and industrial wastewater	
5	Low-cost water treatment and sanitation techniques	
6	Low-cost water treatment and sanitation techniques	
7	Solid and hazardous waste management	
8	Solid and hazardous waste management	
9	Midterm Exam – MSE	
10	Cleaner production techniques	
11	Cleaner production techniques	
12	Waste hierarchy (Reduce, re-use and recycling)	
13	Waste site investigation and remediation	
14	Waste site investigation and remediation	
15	Air pollution control	

16	Air pollution control
17	Noise pollution control
18	End Semester Exam

Text and Material:

- 1. Solid Waste Technology and Management, T. Christensen, John Wiley & Sons, 2011.
- 2. Wastewater Treatment Technologies: Design Considerations by Mritunjay Chaubey, Wiley-Blackwell, 2021.
- 3. Handbook of Air Pollution Prevention and Control, by Shrinivash Rao, 2016.
- **4.** Air Pollution Control Technology Handbook, K.B. Schnelle and C.A. Brown, CRC Press, 2nd edition, 2016.

ASSESSMENT SYSTEM:

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