

Course code: Course Title	Course Structure			Pre-Requisite
EN103: Water and Wastewater Analysis	L	T	P	NIL
	1	0	2	

Course Objective: This course will provide B. Tech. (Environmental Engineering) students with basic hands-on experience in various aspects of Water and Wastewater testing and analysis, allowing them to apply theoretical knowledge, develop practical skills, and gain a deeper understanding of real-world environmental challenges.

S. No	Course Outcomes (CO)
CO1	Demonstrate sampling and testing of water.
CO2	Test sampling and testing of water.
CO3	Demonstrate sampling and testing of waste water.
CO4	Test sampling and testing of waste water.
CO5	Analyze and categorize analyse the water and wastewater samples.

S. No	Contents
UNIT 1	Water Engineering Lab: Determination of physical and chemical characteristics of water.
UNIT 2	Water Engineering Lab: Determination of biological characteristics of water.
UNIT 3	Wastewater Engineering Lab: Determination of physical and chemical characteristics of wastewater.
UNIT 4	Wastewater Engineering Lab: Determination of biological characteristics of wastewater.

REFERENCES		
S.No.	Name of Books/Authors/Publishers	Year of Publication / Reprint
1	IS 3025: Methods of Sampling and Test (Physical and Chemical) for Water and Wastewater, various parts.	1987
2	IS 1622 (1981): Methods of sampling and microbiological examination of water.	1981

