

Course Code	Course Name	L-T-P-Credits	Year of Introduction
CE431	ENVIRONMENTAL ENGINEERING LAB	0-0-3-1	2016

Prerequisites: CE405 Environmental Engineering - I

Course objectives:

- To equip the students in doing analysis of water and wastewater samples

List of Experiments: (Minimu 10 experiments are mandatory)

1. To analyse the physical characteristics viz. colour, turbidity, and conductivity of a given water sample and to determine its suitability for drinking purposes
2. To analyse the chemical characteristics of a given water sample viz. pH, acidity, alkalinity for assessing its potability
3. To analyse the chemical characteristics of a given water sample viz. chlorides and sulphates content to assess its suitability for drinking purposes and building construction
4. To determine the Dissolved Oxygen content of a given water sample for checking its potability
5. To determine the available chlorine in a sample of bleaching powder
6. To analyse the various types of solids in a given water sample
7. To determine the BOD of a given wastewater sample
8. To determine the COD of a given wastewater sample
9. To determine the optimum dosage of alum using Jar test
10. To determine the Nitrates / Phosphates in a water sample
11. To determine the iron content of a water sample
12. To determine the MPN content in a water sample and assess the suitability for potability

Expected outcome:

- The students will be able to assess quality of water for various purposes