

Course Number and Name												
<b>BCE6L2 - ENVIRONMENTAL ENGINEERING LAB</b>												
Credits and Contact Hours												
<b>2 &amp; 45</b>												
Course Coordinator's Name												
Ms.M.Aswathy												
Text Books and References												
<b>REFERENCES:</b>												
1. Trivedhi and Goel. Chemical and Biological Methods for Water Pollution studies.												
2. A Course manual – Water and Waste Water Analysis, national Environmental Engineering												
3. Research Institute Nagpur Publication.												
4. Standard Methods for Examination of Water and Wastewater - APHA, AWAA and WPCF, 1985 Edition.												
Course Description												
<ul style="list-style-type: none"> <li>To understand the sampling and preservation methods and significance of characterization of wastewater.</li> </ul>												
Prerequisites						Co-requisites						
Physics and Chemistry Laboratory-I						NIL						
required, elective, or selected elective (as per Table 5-1)												
Course Outcomes (COs)												
CO1	Have a fundamental knowledge to conduct various quality tests on water and wastewater											
CO2	Have a well-founded knowledge to assess the suitability of water for drinking and irrigation purpose.											
CO3	Acquire skills in assessing the suitability of water for concreting works											
Student Outcomes (SOs) from Criterion 3 covered by this Course												
	COs/SOs	a	b	c	d	e	f	g	h	i	j	k
	CO1		H	M		M						
	CO2		H	M		M						
	CO3		H	M		M						
List of Topics Covered												

**LIST OF EXPERIMENTS:**

1. a. Determination of pH.  
b. Determination of Turbidity
2. Determination of hardness.
3. Determination of Alkalinity.
4. Determination of Residual Chlorine
5. Estimation of Chlorides.
6. Estimation of Ammonia Nitrogen.
7. Estimation of Sulphate.
8. Determination of optimum coagulant dose.
9. Determination specific conductivity.
10. Estimation of available chlorine in Bleaching Powder.
11. Determination of dissolved Oxygen.
12. Determination of suspended settleable, Volatile and fixed solids.
13. B.O.D.Test
14. C.O.D.Test