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## CE8512 WATER AND WASTE WATER ANALYSIS LABORATORY

## DETAILED SYLLABUS

## COURSE OBJECTIVES:

- To analyse the physical, chemical and biological characteristics of water and wastewater
- To quantify the dosage requirement for coagulation process
- To study the growth of micro-organism and its quantification
- To quantify the sludge

## LIST OF EXPERIMENTS:

- 1. Determination of pH, Turbidity and conductivity
- 2. Determination of Hardness
- 3. Determination of Alkalinity and Acidity
- 4. Determination of Chlorides
- 5. Determination of Phosphates and Sulphates
- 6. Determination of iron and fluoride
- 7. Determination of Optimum Coagulant dosage
- 8. Determination of residual chlorine and available chlorine in bleaching powder
- 9. Determination of Oil, and Grease
- 10. Determination of suspended, settleable, volatile and fixed solids
- 11. Determination Dissolved Oxygen and BOD for the given sample
- 12. Determination of COD for given sample
- 13. Determination of SVI of Biological sludge and microscopic examination
- 14. Determination of MPN index of given water sample