CHEMISTRY LAB
(Common to all Branches)

Course Code: 15BC1102

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Course Outcomes:

At the end of the course the student shall be able to

CO 1 Demonstrate Principles involved in determination of metal ions by titrimetry

CO 2 Analyse different water quality parameters

CO 3 Explain the properties of liquid lubricants and fuels

CO 4 Understand the principles of Potentiometry to determine the metal ion

CO 5 Understand the principles of determination of ions by Spectrophotometry

Any **TWELVE** of the following experiments are to be performed during the semester.

Determination of

1. Ferrous iron.
2. Ferric iron.
3. Total hardness of water sample.
4. Carbonate and bicarbonate of water sample.
5. Dissolved oxygen.
6. Available chlorine in bleaching powder.
7. Zinc by potassium ferrocyanide.
8. Copper by EDTA method
9. Calcium by permanganate.

10. Iron-II by potentiometric method.
11. Viscosity of lubricant by viscometer.
12. Flash and fire points of lubricant.
13. Percentage residue of carbon in oils.
14. Calorific value of solid fuels.
15. Fluoride by spectrophotometric method.
16. Iron in cement by spectrophotometric method.

REFERENCE:

1. A.I.Vogel, " *A text book of quantitative chemical analysis*", 6th Edition, Pearson Education, Pvt. Ltd., 2002.