CHEMISTRY LAB

(Common to all Branches)

Course Code: 13BC1103 L T P C

Course Educational Objectives:

The course is to develop the basic experimental skills and analytical thinking.

The course attempt to provide information regarding various chemical techniques used in quantitative chemical analysis.

Course Outcomes:

The student will be able to determine the substance quantitatively and analyse the data obtained to resolve the prolem in their respective areas.

LIST OF EXPERIMENTS:

- 1. Determination of ferrous iron.
- 2. Determination of ferric iron.
- 3. Determination of total hardness of water.
- 4. Determination of carbonate and bicarbonate of water.
- 5. Determination of dissolved oxygen.
- 6. Determination of available chlorine in bleaching powder.
- 7. Determination of zinc by potassium ferrocyanide.
- 8. Determination of copper by EDTA method
- 9. Determination of calcium by permanganate.
- 10. Determination of iron-II by potentiometric method.
- 11. Determination of viscosity of lubricant by viscometer.
- 12. Determination of flash and fire points of lubricant.
- 13. Determination of percentage residue of carbon in oils.

- 14. Determination of calorific value of solid fuels.
- 15. Determination of fluoride by spectrophotometric method.
- 16. Determination of iron in cement by spectrophotometric method.

REFERENCE:

A.I.Vogel, "A Text book of quantitive chemical analysis", 6th Edition, Pearson Education, Pvt. Ltd., 2002.

