***CH102 Chemical sciences Lab***

(Effective till Session 2014-15)

L-T-P-Cr: 0-0-3-1

1. Estimation of Cu(II) in given solution by iodiometric titration.

2. Estimation of Fe(II) in given solution by Redox titration..

3. Determination of hardness of water by EDTA method.

4. Determination of NaOH and Na2CO3 in a mixture of their solution.

5. Proximate analysis of coal.

6. Determination of Drop point of grease.

7. Determination of rate constant of acid catalyzed hydrolysis of ester-titrimetry.

8. Determination of Flash point of lubricating oil by Penskey-Marten’s apparatus.

9. Determination of Red Wood number of oil by Red Wood viscometer.

10. To determine the dissolved carbon dioxide in given water sample.

**Suggested Readings:**

Essential of Experimental Engineering Chemistry by Shashi Chawla.