

**I Year – I SEMESTER**

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**ENGINEERING CHEMISTRY LABORATORY**

**List of Experiments**

1. Introduction to chemistry laboratory – Molarity, Normality, Primary, Secondary standard solutions, Volumetric titrations, Quantitative analysis, Quantitative analysis etc.
2. Trial experiment – Estimation of HCl using standard  $\text{Na}_2\text{CO}_3$  solutions.
3. Estimation of  $\text{KMnO}_4$  using standard Oxalic acid solution.
4. Estimation of Ferric iron using standard  $\text{K}_2\text{Cr}_2\text{O}_7$  solution.
5. Estimation of Copper using standard  $\text{K}_2\text{Cr}_2\text{O}_7$  solution.
6. Estimation of Total Hardness water using standard EDTA solution.
7. Estimation of Copper using standard EDTA solution.
8. Estimation of Copper using Colorimeter.
9. Estimation of pH of the given sample solution using pH meter.
10. Conductometric Titrations between strong acid and strong base
11. Conductometric Titrations between strong acid and Weak base
12. Potentiometric Titrations between strong acid and strong base
13. Potentiometric Titrations between strong acid and Weak base
14. Estimation of Zinc using standard potassium ferrocyanide solution
15. Estimation of Vitamin – C

**TEXT BOOKS**

1. Dr. Jyotsna Cherukuis (2012) Laboratory Manual of Engineering Chemistry-II, VGS Techno Series
2. Chemistry Practical Manual, Lorven Publications
3. K. Mukkanti (2009) Practical Engineering Chemistry, B.S. Publication.