INORGANIC AND ORGANIC CHEMISTRY-I PRACTICAL

Course Code: U20/CHE/DSC/201/P

Course Type: DSC 2

No. of Credits: 1

Max. Marks: 50

Max. Hours: 30

Hours per week: 3

COURSE OBJECTIVES

• To develop analytical skills using the principles of quantitative analysis.

COURSE OUTCOMES

CO 1: Interpret and apply the principles of redox and complexometric titrations.

CO 2: Quantitative estimation of salts using gravimetric principles.

PRACTICAL SESSIONS

Volumetric Analysis:

- 1. Estimation of Fe (II) ions by titrating it with K₂Cr₂O₇ using an internal indicator.
- 2. Estimation of Cu (II) ions using Na₂S₂O₃ with K₂Cr₂O₇ as primary standard.
- 3. Estimation of Iodine content in Iodized salt.
- 4. Estimation Nickel by back titration using MgSO₄.
- 5. Estimation of Zinc using EDTA.
- 6. Estimation of calcium or magnesium ions in milk.
- 7. Estimation of hardness of water.

Gravimetric Analysis:

8. Estimation of Barium as Barium Sulphate.

Reference Books:

- 1. Vogel's Qualitative Inorganic Analysis, *Svehla, G.* Pearson Education, 2012.
- 2. J. Vogel's Quantitative Chemical Analysis, *Mendham*, Pearson, 2009.