

## PHARMACEUTICAL ANALYSIS-II

PH. 5.9      THEORY

3 hours/ week

### UNIT -I

Theoretical considerations and application in drug analysis and quality control of the following analytical techniques :

1. **Oxidation Reduction Titrations** : Concepts of oxidation and reduction, Redox reactions, strengths and equivalent weights of oxidizing and reducing agents, Theory of redox titrations, Redox indicators, cell representations, Measurement of electrode potential, Oxidation-reduction curves, Iodimetry and Iodometry, Titrations involving ceric sulphate, potassium iodate, potassium bromate, potassium permanganate, Titanous chloride and sodium 2, 6-dichlorophenol indophenol.

### UNIT -II

2. **Miscellaneous Methods of Analysis** : Diazotisation titrations, Kjeldahl method of nitrogen estimation, Karl-Fischer titration, Oxygen flask combustion gasometry.
3. Potentiometry and pH Meter

### UNIT -III

4. Conductometry
5. Coulometry
6. Polarography and Amperometry

### UNIT -IV

7. Nephelometry and Turbidimetry.
8. Radioimmuno Assays.
9. Electrophoresis