

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**M.Pharm**  
**INDUSTRIAL PHARMACY**  
**SEMESTER: I**

**Subject Name:** INDUSTRIAL PHARMACY - I

**Subject Code:** MPH105T

**List of Practicals:**

**PART A:**

1. Analysis of pharmacopoeial compounds and their formulations by UV Vis spectrophotometer
2. Simultaneous estimation of multi component containing formulations by UV spectrophotometry
3. Experiments based on HPLC
4. Experiments based on Gas Chromatography
5. Estimation of riboflavin/quinine sulphate by fluorimetry
6. Estimation of sodium/potassium by flame photometry

**PART B:**

1. Effect of surfactants on the solubility of drugs.
2. Effect of pH on the solubility of drugs.
3. Stability testing of solution and solid dosage forms for photo degradation..
4. Stability studies of drugs in dosage forms at 25 Degree C, 60% RH and 40 degree C, 75% RH
5. Compatibility evaluation of drugs and excipients (DSC & FTIR)
6. Preparation and evaluation of different polymeric membranes
7. Formulation and evaluation of sustained release oral matrix tablet/ oral reservoir system.
8. Formulation and evaluation of microspheres / microcapsules.
9. Formulation and evaluation of transdermal drug delivery systems.
10. Design and evaluation of face wash, body- wash, creams, lotions, shampoo, toothpaste, lipstick.
11. Electrophoresis of protein solution.
12. Preparation and evaluation of Liposome delivery system.