

# GUJARAT TECHNOLOGICAL UNIVERSITY

## M.Pharm

### PHARMACEUTICAL ANALYSIS

### SEMESTER: I

**Subject Name:** PHARMACEUTICAL ANALYSIS- I

**Subject Code:** MPA105P

#### 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. Assay of official compounds by different titrations
2. Assay of official compounds by instrumental techniques.
3. Quantitative determination of hydroxyl group.
4. Quantitative determination of amino group
5. Colorimetric determination of drugs by using different reagents
6. Impurity profiling of drugs
7. Calibration of glasswares
8. Calibration of pH meter
9. Calibration of UV-Visible spectrophotometer
10. Calibration of FTIR spectrophotometer
11. Calibration of GC instrument
12. Calibration of HPLC instrument
13. Cleaning validation of any one equipment
14. Determination of total reducing sugar
15. Determination of proteins
16. Determination of saponification value, Iodine value, Peroxide value, Acid value in food products
17. Determination of fat content and rancidity in food products
18. Analysis of natural and synthetic colors in food
19. Determination of preservatives in food
20. Determination of pesticide residue in food products
21. Analysis of vitamin content in food products
22. Determination of density and specific gravity of foods
23. Determination of food additives