

GUJARAT TECHNOLOGICAL UNIVERSITY

M.Pharm

PHARMACEUTICAL ANALYSIS

SEMESTER: II

Subject Name: PHARMACEUTICAL ANALYSIS- I

Subject Code: MPA205P

1. Comparison of absorption spectra by UV and Wood ward– Fiesure rule
2. Interpretation of organic compounds by FT-IR
3. Interpretation of organic compounds by NMR
4. Interpretation of organic compounds byMS
5. Determination of purity by DSC in pharmaceuticals
6. Identification of organic compounds using FT-IR, NMR, CNMR and Mass spectra
7. Bio molecules separation utilizing various sample preparation techniques and Quantitative analysis of components by gel electrophoresis.
8. Bio molecules separation utilizing various sample preparation techniques and Quantitative analysis of components by HPLC techniques.
9. Isolation of analgesics from biological fluids(Blood serumandurine).
10. Protocol preparation and performance of analytical/Bio analytical method validation.
11. Protocol preparation for the conduct of BA/BE studies according to guidelines.
12. In process and finished product quality control tests for tablets, capsules, parenterals and creams
13. Quality control tests for Primary and secondary packing materials
14. Assay of raw materials as per official monographs
15. Testing of related and foreign substances in drugs and raw materials
16. Preparation of Master Formula Record.
17. Preparation of Batch Manufacturing Record.
18. Quantitative analysis of rancidity in lipsticks and hair oil
19. Determination of aryl amine content and Developerinhairdye
20. Determination of foam height and SLS content of Shampoo.
21. Determination of total fatty matter increams (Soap,skinand haircreams)
22. Determination of acid value and saponification value.
23. Determination of calcium thioglycolate indepilatories