## 18BP072 MEDICINAL CHEMISTRY-III LABORATORY

## LABORATORY EXPERIMENTS

PRACTICAL 4 HOURS / WEEK

- 1 Sulphanilamide
- 2 7-Hydroxy, 4-methylcoumarin
- 3 Chlorobutanol
- 4 Triphenylimidazole
- 5 Tolbutamide
- 6 Hexamine

## II. Assay ofdrugs

- 1 Isonicotinic acid hydrazide
- 2 Chloroquine
- 3 Metronidazole
- 4 Dapsone
- 5 Chlorpheniramine maleate
- 6 Benzyl penicillin
- III Preparation of medicinally important compounds or intermediates by Microwave irradiation technique
- IV Drawing structures and reactions using chemdraw ®
- V Determination of physicochemical properties such as logP, clogP, MR, Molecular weight, Hydrogen bond donors and acceptors for class of drugs course content using drug design software Drug likeliness screening (LipinskiesRO5)

## **RECOMMENDED BOOKS (LATEST EDITIONS)**

- 1. Wilson and Giswold's Organic medicinal and PharmaceuticalChemistry.
- 2. Foye's Principles of Medicinal Chemistry.
- 3. Burger's Medicinal Chemistry, Vole I to IV.
- 4. Introduction to principles of drug design- Smith and Williams.
- 5. Remington's Pharmaceutical Sciences.
- 6. Martindale's extra pharmacopoeia.
- 7. Organic Chemistry by I.L. Finar, Vol. II.
- 8. The Organic Chemistry of Drug Synthesis by Lednicer, Vol.1-5.
- 9. Indian Pharmacopoeia.
- 10. Text book of practical organic chemistry-A.I.Vogel.

VFSTR 110