Programme: Master of Science Chemistry (MSCCH20)

Year / Semester: IIIrd semester Paper Code: MCH 604

Paper Name: Drugs and Pharmaceuticals- I

Syllabus

BLOCK 1: DRUG DISCOVERY, DESIGN AND DEVELOPMENT

- Unit -1: Drug discovery, design and development
- Unit -2: Concepts of receptors, agonists and antagonists
- Unit − 3 : Drug development of Salbutamol, cimetidine and captopril
- Unit -4: Structure activity relationship studies -I
- Unit 5 : SAR studies II Development of oxaminiquine & SAR studies of Sulphonamides and benzepines.

BLOCK 2: DRUGS ACTING ON DIFFERENT TARGETS - I

- Unit -6: Combinatorial synthesis
- Unit -7: Quantitative structure activity relationships (QSAR)
- Unit -8: Pharmacokinetics, prodrugs and clinical trials
- Unit -9: Drugs acting on metabolic process
- Unit -10: Drugs acting on cell walls and cell membranes