

COURSE OBJECTIVES OF M.PHARM

PHARMACEUTICAL CHEMISTRY (MPC)

MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES (MPT101T)

- Chemicals and excipients
- The analysis of various drugs in single and combination dosageforms
- Theoretical and practical skills for handling of the instruments

ADVANCED ORGANIC CHEMISTRY-I (MPC102T)

- The principles and applications of retero synthesis
- The mechanism and applications of various named reactions

ADVANCED MEDICINAL CHEMISTRY (MPC103T)

- Different stages of drug discovery
- Role of medicinal chemistry in drug research
- Different techniques for drug discovery
- Various strategies to design and develop new drug like molecules for biological targets
- Peptido mimetics

CHEMISTRY OF NATURAL PRODUCTS (MPC104T)

Different types of natural compounds and their chemistry and medicinal importance

- The importance of natural compounds as lead molecules for new drug discovery
- The concept of DNA technology tool for new drug discovery
- General methods of structural elucidation of compounds of natural origin
- Isolation, purification and characterization of simple chemical constituents from natural source

ADVANCED SPECTRAL ANALYSIS (MPC201T)

- Interpretation of the NMR, Mass and IR spectra of various organic compounds
- Theoretical and practical skills of the hyphenated instruments
- Identification of organic compounds

ADVANCED ORGANIC CHEMISTRY-II (MPC202T)

- The principles and applications of Green chemistry
- The concept of peptide chemistry.
- The various catalysts used inorganic reactions
- The concept of stereo chemistry and asymmetric synthesis.

COMPUTER AIDED DRUG DESIGN (MPC203T)

- Role of CADD in drug discovery
- Different CADD techniques and their applications
- Various strategies to design and develop new drug like molecules.
- Working with molecular modeling softwares to design new drug molecules
- The *insilico* virtual screening protocols

PHARMACEUTICAL PROCESS CHEMISTRY (MPC204T)

- The strategies of scale up process and intermediates
- The various unit operations and various reactions in process chemistry
- The concept of disconnection to develop synthetic routes for small target molecule.
- The various catalysts used inorganic reactions
- The chemistry of hetero cyclic compound.



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Accredited by NAAC With "A" Grade, An ISO 9001-2015 Certified Institution
Prime Nagar, Near Govt. Polytechnic, Erattayal, Palakkad - 678551, Kerala, India
Phone: 0491-2571117, 2570040, 9744977000
