

SRI AUROBINDO INSTITUTE OF PHARMACY, INDORE (M.P.)

COURSE OUTCOME

M.PHARM (PHARMACEUTICAL CHEMISTRY)

M. PHARMACY (PHARMACEUTICAL CHEMISTRY) I SEMESTER	
COURSE NAME & CODE	COURSE OUTCOME (COs)
MPC 101T MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES	CO1. The analysis of various drugs in single and combination dosage forms
	CO2. Theoretical and practical skills of the instruments
MPC 102T ADVANCED ORGANIC CHEMISTRY - I	CO1. The principles and applications of retro synthesis
	CO2. The mechanism & applications of various named reactions
	CO3. The concept of disconnection to develop synthetic routes for small target molecule.
	CO4. The various catalysts used in organic reactions The chemistry of heterocyclic compounds
MPC 103T ADVANCED MEDICINAL CHEMISTRY	CO1. Different stages of drug discovery
	CO2. Role of medicinal chemistry in drug research
	CO3. Different techniques for drug discovery
	CO4. Various strategies to design and develop new drug like molecules for biological targets Peptidomimetics
MPC 104T CHEMISTRY OF NATURAL PRODUCTS	CO1. Identify lead molecules from the natural sources.
	CO2. Designed to have the knowledge of alkaloids and steroids especially structural elucidation of few important compounds
	CO3. Understanding of utilization of natural products for the preparation of new molecules for the treatment of different diseases like cancer, malaria etc.

M. PHARMACY (PHARMACEUTICAL CHEMISTRY) II SEMESTER	
COURSE NAME & CODE	COURSE OUTCOME (COs)
MPC 201T ADVANCED SPECTRAL ANALYSIS	CO1. Interpretation of the NMR, Mass and IR spectra of various organic compounds
	CO2. Theoretical and practical skills of the hyphenated instruments
	CO3. Identification of organic compounds
MPC 202T ADVANCED ORGANIC CHEMISTRY- II	CO1. The principles and applications of Green chemistry
	CO2. The concept of peptide chemistry.
	CO3. The various catalysts used in organic reactions
	CO4. The concept of stereochemistry and asymmetric synthesis.
MPC 203T COMPUTER AIDED DRUG DESIGN	CO1. Role of CADD in drug discovery
	CO2. Different CADD techniques and their applications
	CO3. Various strategies to design and develop new drug like molecules.
	CO4. Working with molecular Modeling software's to design new drug molecules. The in silico virtual screening protocols
MPC 204T PHARMACEUTICAL PROCESS CHEMISTRY	CO1. The strategies of scale up process of APIs and intermediates
	CO2. The various unit operations and various reactions in process chemistry

M. PHARMACY (PHARMACEUTICAL CHEMISTRY) III SEMESTER

COURSE NAME & CODE	COURSE OUTCOME (COs)
MRM 301T RESEARCH METHODOLOGY & BIostatistics	CO1. Know the operation of M.S. Excel, SPSS, EPIINFO and SAS.
	CO2. Know the various statistical techniques to solve statistical problems
	CO3. Appreciate statistical techniques in solving the problems.