MOTHER TERESA
COLLEGE OF PHARMACY

Course Outcomes Of M.Pharm

Pharmaceutics

Course Name: Drug delivery systems (Theory) ; **(PHARMACEUTICS)**
Course code: MPH 102T, **Year of Study:** 1st Year M.Pharmacy 1 st Semester

C102.1	To understand the Sustained Release& Controlled Release formulations,Customized drug delivery systems, Bioelectronic Medicines.
C102.2	To know the Rate Controlled Drug Delivery Systems,Modulated Drug Delivery Systems, Osmotic activated Drug Delivery Systems.
C102.3	To justify the Gastro-Retentive Drug Delivery Systems,Buccal Drug Delivery system.
C102.4	To understand the Occular Drug Delivery Systems,Barriers of drug permeation.
C102.5	To discuss the Transdermal Drug Delivery Systems, Formulation and evaluation.
C102.6	To know Protein and Peptide Delivery , Formulation and evaluation.
C102.7	To understand the Vaccine delivery systems, Vaccines & uptake of antigens.

Course Name: Mordern pharmaceutics
Course code: MPH103T , **Year of Study:** 1st M.Pharmacy 1 st Semester

C103.1	To know the Preformation Concepts,Theories of dispersion and pharmaceutical Dispersion.
C103.2	To understand the Validation and calibration of Master plan, ICH & WHO guidelines and Government regulation.
C103.3	To discuss the cGMP & Industrial Management, Production management,Concept of Total Quality Management.
C103.4	To know the Compression and compaction, compaction profiles,&Solubility.
C103.5	To justify the Study of consolidation parametersLinearity Concept of significance, Standard deviation , Chi square test, students T-test , ANOVA test.

Course Name: Regulatory affairs(Theory) ; Course code: MPH104T, Year of Study: 1st M.Pharmacy 1st Semester	
C104.1	To understand the Documentation in Pharmaceutical industry, Generic drugs product development , Regulatory requirement for product approval.
C104.2	To justify the CMC, post approval regulatory affairs and medical devices.. Regulatory requirements of EU, MHRA, TGA and ROW countries.
C104.3	To justify the Non clinical drug development, dossier (IMPD) and investigator brochure (IB).
C104.4	To discuss the Clinical trialsHIPAA- new, requirement to clinical study process, pharmacovigilance safety monitoring in clinical trials.

Course Name: Molecular pharmaceutics Nanotech and Targeted DDS(Theory) ; Course code: MPH201T, Year of Study: 1st M.Pharmacy II Semester.	
C201.1	To understand the Targeted Drug Delivery Systems, Tumor targeting and Brain specific delivery.
C201.2	To know about the Targeting Methods.
C201.3	To discuss the Micro Capsules / Micro Spheres, Monoclonal Antibodies.
C201.4	To justify the Pulmonary drug delivery, Intra Nasal Route Delivery systems.
C201.5	To justify the Nucleic acid based therapeutic delivery system .

Course Name: Advanced Biopharmaceutics & pharmacokinetic (Theory) Course code: MPH202T, Year of Study: 1st M.Pharmacy II Semester	
C202.1	To understand the Drug Absorption from the Gastrointestinal Tract, ,Dissolution methods Correlation of in vivo data with in vitro dissolution data..
C202.2	To know the Biopharmaceutic considerations in drug product design, In vitro-in vivo correlation, dissolution profile comparisons.
C202.3	To discuss the Pharmacokinetics models, compartment modeling, Multi compartment model of kmax and vmax,Drug interactions.
C202.4	To justify the Drug Product Performance, In Vivo: Bioavailability and BioequivalencePermeability and bioequivalence studies.
C202.5	To understand the Modified-Release Drug Products, Targeted Drug Delivery Systems.

	Course Name: Computer Aided Drug Delivery system (Theory) ; **Course code:** MPH203T, **Year of Study:** 1st M.Pharmacy II Semester
C204.1	To know the Computers in Pharmaceutical Research and Development, Quality-by-Design In Pharmaceutical Development.
C204.2	To understand the Computational Modeling Of Drug Disposition.
C204.3	To discuss the Computer-aided formulation development.
C204.4	To justify the Computer-aided biopharmaceutical characterization& Computers in Clinical Development.
C204.5	To know the Artificial Intelligence (AI), Robotics and Computational fluid dynamics.