

POSTGRADUATE PHARMACY PROGRAM

CRITERION	Course Outcomes (COs)
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CRITERION

- . Course Outcomes (COs) and Program Outcomes (POs)
- . Establish the correlation between the courses and the Program Outcomes (NBA defined Program Outcomes as mentioned in Annexure I)
- . Course Outcomes (should include course outcomes of one course from each semester of study, however, should be prepared for all courses)

On successful completion of this Course, students will be able to:

MPP101: Theory Clinical Pharmacy Practice

S. NO.	Statements
MPP101.1	The thorough understanding of clinical pharmacy and clinical pharmacy services including ward round participation and drug therapy reviews.
MPP101.2	Ability to provide patient centered care and to develop comprehensive and individualized medication plans based on the integration of medication history interviews.
MPP101.3	Apply knowledge and skills to identify and resolve drug-related problems, ensuring safe and effective medication use.
MPP101.4	To analyse the selected laboratory results within the context of specific disease states to make informed decisions regarding medication regimens.
MPP101.5	Provide integrated, critically analyzed medicine and poison information to enable healthcare professionals in the efficient patient management.

MPP102: Theory Pharmacotherapeutics- I

S. NO.	Statements
MPP102.1	Understand the disease conditions and drug therapy, and ability to apply the drug knowledge on preparation of patient specific pharmacotherapeutic plan for Cardiovascular system diseases .
MPP102.2	Understand the disease conditions and drug therapy, and ability to apply the drug knowledge on preparation of patient specific pharmacotherapeutic plan for Respiratory system diseases .
MPP102.3	Understand the disease conditions and drug therapy, and ability to apply the drug knowledge on preparation of patient specific pharmacotherapeutic plan for Gastrointestinal system diseases .
MPP102.4	Understand the disease conditions and drug therapy, and ability to apply the drug knowledge on preparation of patient specific pharmacotherapeutic plan for Gastrointestinal system diseases and Hematological diseases .
MPP102.5	Understand the disease conditions and drug therapy, and ability to apply the drug knowledge on preparation of patient specific pharmacotherapeutic plan for Bone and joint disorders and dermatological disorders .

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On successful completion of this Course, students will be able to:

MPP103: Theory Hospital and Community pharmacy	
S. NO.	Statements
MPP103.1	Knowledge on hospital pharmacy, drug committees & policies of hospital.
MPP103.2	To know the various drug distribution methods & inventory control techniques.
MPP103.3	To know the drug related problems, dispensing for minor ailments, rational use of OTC Medications and to be an entrepreneur in community pharmacy.
MPP103.4	To know the community pharmacy management and value added services in community Pharmacies.
MPP103.5	Understand health promotion activities as well as research in community pharmacy practice.
MPP104: Clinical Research	
S. NO.	Statements
MPP104.1	Understand the new drug discovery and developmental process which also involved the world Wide regulatory, ethical and practicing guidelines and requirements for good conduct of clinical Trails.
MPP104.2	Knowledge on various phases of clinical trials and its process from approval to market availability which involves personals in clinical trial and able to design the study appropriately.
MPP104.3	Knowledge on personal and documents involved in clinical trial and able to prepare required trial documents and able to initiate the clinical trial.
MPP104.4	Knowledge on procurement and storage of investigational drugs, personal and documents Involved in the clinical trial and able to conduct, monitor, close out work appropriately in the Clinical trial field.
MPP104.5	Knowledge on quality control, Data management and safety monitoring in clinical trials.
MPP105: Practical Pharmacy Practice -I	
S. NO.	Statements
MPP105.1	Understand the elements of pharmaceutical care, lab data interpretation, provide medicine& Poison information.
MPP105.2	Ability to prepare individualized therapeutic plan based on diagnosis and present clinical case for Various disease conditions.
MPP105.3	Knowledge on inventory control techniques, IV admixtures, Hospital formulary and preparation of Patient information leaflet.
MPP105.4	Understand the regulatory & ethical requirements and appreciate the conduct of clinical trials
MPP105.5	Ability to answer drug & poison information query.

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On successful completion of this Course, students will be able to:

MPP201: Theory Principles of Quality Use of Medicines

S. NO.	Statements
MPP201.1	Comprehension on quality use of medicines.
MPP201.2	Develop a skill to identify and resolve medications error and ADRs.
MPP201.3	Appraise the Benefits and risks associated with the use of medicines .
MPP201.4	Expand the knowledge to apply EBM.
MPP201.5	Impact of regulatory aspects in the quality use of medicine.

MPP202: Theory Pharmacotherapeutics II

S. NO.	Statements
MPP202.1	Understand the disease conditions and drug therapy and ability to apply the drug knowledge on preparation of patient specific pharmacotherapeutic plan for nervous system diseases .
MPP202.2	Understand the disease conditions and drug therapy and ability to apply the drug knowledge on preparation of patient specific pharmacotherapeutic plan for Psychiatric disorders and renal diseases .
MPP202.3	Understand the disease conditions and drug therapy and ability to apply the drug knowledge on preparation of patient specific pharmacotherapeutic plan for Infectious diseases
MPP202.4	Understand the disease conditions and drug therapy and ability to apply the drug knowledge on preparation of patient specific pharmacotherapeutic plan for Infectious diseases and gynecological disorders
MPP202.5	Understand the disease conditions and drug therapy and ability to apply the drug knowledge on preparation of patient specific pharmacotherapeutic plan for cancer diseases .

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On successful completion of this Course, students will be able to:	
MPP203: Theory Clinical Pharmacokinetics and Therapeutic Drug Monitoring	
S. NO.	Statements
MPP203.1	Understand drug dosage regimen, relate plasma drug concentrations with treatment outcomes .
MPP203.2	Knowledge on pharmacokinetics interactions, know impact of genetic polymorphism of individuals on pharmacokinetics & pharmacodynamic of drugs.
MPP203.3	To understand pharmacokinetics modeling using principle of pharmacometrics.
MPP203.4	Knowledge on drug dosing & dosage adjustment.
MPP203.5	To understand TDM drugs .
MPP204: Theory Pharmacoepidemiology & Pharmacoeconomics	
S. NO.	Statements
MPP204.1	Knowledge on Pharmacoepidemiology .its method and their application in health care.
MPP204.2	Knowledge in measuring the outcomes of drug use and their risk in pharmacoepidemiology.
MPP204.3	Understand the fundamental principles of Pharmacoeconomics and its methods.
MPP204.4	To know the cost and consequences associated with pharmacy products and pharmaceutical services.
MPP204.5	Understand the applications of pharmacoeconomics in various pharmacy settings.

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On successful completion of this Course, students will be able to:	
MPP205: Practical Pharmacy Practice II	
S. NO.	Statements
MPP205.1	Understand rational use of medicines , Casualty Assessment of adverse drug reactions, identify and resolve medication related problems.
MPP205.2	Ability to prepare individualized therapeutic plan based on diagnosis and present clinical cases for various diseases conditions.
MPP205.3	Understand applications of pharmacokinetics in designing individualized dosage regimen and interpretation of TDM reports .
MPP205.4	Ability to calculate Bioavailability & Bioequivalence.
MPP205.5	Understand various pharmacoconomics outcome analysis.
MRM301: Research Methodology and Biostatistics	
S. NO.	Statements
MRM301.1	Analyze the value, scope, objectives and requirements of research.
MRM301.2	Discuss the basic concepts of statistical analysis .
MRM301.3	Apply the basic principles of medical research and ethics.
MRM301.4	Understand the guidelines for the maintenance of laboratory animals(CPCSEA Guidelines).
MRM301.5	Create efficiency in thesis writing editing and formatting.