



Programme Outcomes (POs) for B. Pharmacy	
PO1	Pharmacy Knowledge: Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including biomedical sciences; pharmaceutical sciences; behavioral, social, and administrative pharmacy sciences; and manufacturing practices.
PO2	Planning Abilities: Demonstrate effective planning abilities including time management, resource management, delegation skills and organizational skills. Develop and implement plans and organize work to meet deadlines.
PO3	Problem analysis: Utilize the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems and making decisions during daily practice. Find, analyze, evaluate and apply information systematically and shall make defensible decisions.
PO4	Modern tool usage: Learn, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations.
PO5	Leadership skills: Understand and consider the human reaction to change, motivation issues, leadership and team-building when planning changes required for fulfilment of practice, professional and societal responsibilities. Assume participatory roles as responsible citizen or leadership roles when appropriate to facilitate improvement in health and well-being.
PO6	Professional Identity: Understand, analyze and communicate the value of their professional roles in society (e.g. healthcare professionals, promoters of health, educators, managers, employers, employees).
PO7	Pharmaceutical Ethics: Honour personal values and apply ethical principles in professional and social contexts. Demonstrate behavior that recognizes cultural and personal variability in values, communication and lifestyles. Use ethical frameworks; apply ethical principles while making decisions and take responsibility for the outcomes associated with the decisions.




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PO8	Communication: Communicate effectively with the pharmacy community and with society at large, such as, being able to comprehend and write effective reports, make effective presentations and documentation, and give and receive clear instructions.
PO9	The Pharmacist and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety and legal issues and the consequent responsibilities relevant to the professional pharmacy practice.
PO10	Environment and sustainability: Understand the impact of the professional pharmacy solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO11	Project Management and finance: Illustrate knowledge and interpret the theoretical aspects of pharmaceutical management and apply these to one's own work, as a member or a leader in a team, to handle the projects and in multi-disciplinary environments.
PO12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Self-assess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis.

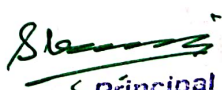


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Programme Outcomes (POs) for Pharm.D	
PO1	Pharmacy Knowledge: Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including anatomy, pathophysiology, pharmaceutical jurisprudence, pharmaceutical sciences; behavioural, social, and administrative pharmacy sciences; research methodology and biostatistics; Pharmacotherapeutic approaches and manufacturing practices.
PO2	Planning Abilities: Demonstrate effective planning abilities including time management, resource management, delegation skills and organizational skills. Develop and implement plans and organize work to meet deadlines. Utilize the principles of pharmaceutical sciences and clinical laboratory tests for evaluation of disease state and interpretation of results thereby assisting physicians for better therapeutic outcome.
PO3	Problem analysis: Utilize the principles of medical sciences to think analytically, clearly and critically the medical prescription while dispensing medicines and making decision during routine hospital practices. Find, analyse, evaluate and apply analytical skills in evaluating medical information and shall make appropriate defensible decisions.
PO4	Modern tool usage: Study, select, and apply appropriate techniques including resources using IT tools for prediction and to solve medical sciences related problems in multidisciplinary domains with an understanding of limitations of and interpretation of result.
PO5	Leadership skills: Understand and consider patient issues with smart decision making, active listening skills and effective patient counselling to understand the importance of considering different factors before making a major decision. Create a plan with forward thinking by mastering all the skills developed to facilitate improvement in health and well-being and becoming a stronger and more successful leader within.
PO6	Professional Identity: Demonstrate effective planning abilities in monitoring drug therapy, medication chart review, clinical study design and approaches for drug discovery process. Understand, analyze and communicate the value of their




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	professional roles in society (e.g. healthcare professionals, promoters of health, educators, managers, employers, employees).
PO7	Pharmaceutical Ethics: With good conduct and consciousness regulate their roles and set standard for the society. Honour human values apply professional ethics and social contexts. Demonstrate behaviour that recognizes cultural and personal variability in values, communication and lifestyles and guide pharmacist to his job, trade and profession. Use ethical frameworks as per statutory requirement and offer comprehensive pharmaceutical services.
PO8	Communication: Communicate effectively in written or verbal mode required to establish positive and productive relationship with patients and physicians. Collaborative working relationship with physician able to comprehend and write impressive medical reports. Write effective reports, make effective presentations and documentation, and give, collect and receive clear instructions.
PO9	The Pharmacist and society: Involve in designing and creating an environment to assess societal, health, safety and legal issues and the consequent responsibilities relevant to the professional pharmacy practice thereby contributing to the provision of primary healthcare.
PO10	Environment and sustainability: Interact with planet responsibly while making pharmaceutical care decision and demonstrate the knowledge and need for sustainable development without depleting natural resources.
PO11	Project Management and finance: Illustrate knowledge and interpret the theoretical aspects of pharmaceutical management and apply these to one's own work, as a member or a leader in a team, to handle the projects and in multi-disciplinary environments. Utilize organizational resources to execute a specific task, events or a duty towards accomplishment.
PO12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change and to foster continuous development of the profession. Improving knowledge and skills for his employment and personal fulfilment; enhancing social inclusion, active citizenship and individual development.




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Programme Outcomes (POs) for M.Pharmacy Pharmacology	
PO1	Pharmaceutical science knowledge: Apply the knowledge of Biostatics, Physiology, Pharmaceutical physical properties of formulations and factors influencing for pharmacological effects from different dosage form. Enables the students to learn about the advances in pharmacology of various drugs and with respectivedifferentformulations.Appraiseaboutpre-clinicalevaluationknowledge onvariousnewchemicalentities, newformulationsand tobuild andunderstand the pharmacokineticandpharmacodynamicprinciples.
PO2	Unit operations: The Biopharmaceutics renders knowledge about the basic principlesofunitoperationsinvolveinaphysicalchangeorchemicaltransformation suchascrystallization,polymerization,isomerizationandotherbiologicalreactions taking place in the human body and different factors associated with it. The informationusefulforboththescientist,studentsintheareaofpharmacologyand pharmaceutics.
PO3	Entrepreneurship: The knowledge of different pharmaceutical dosage form and devices effects on human study. The effect of the dosage form design will serve as importantfactortoelicitforpharmacologicalaction.Thesameknowledgeisapplied forconductingpre-clinicaltrialsandvariousphasesofclinicaltrialsinhumanbeings andotherareasof biomedical research.
PO4	Design/Developmentofsolution: Theinformationandknowledgeontheplanning andexecutionofclinicaltrialsthevariousphasesofclinical trialsandhealthoutcome measuresservesasanimportantperquisitefortheinitialphasesofdevelopmentdata andbioavailabilityandbioequivalencestudies
PO5	Application oriented knowledge: The knowledge of biopharmaceutics helps in designing a protocol for different types of clinical studies, be it molecular or biochemical or to understand the trends in modern drug discovery. The broad relevance of the subjects has its importance in diagnosis and treatment of diseases and is very well connected to other courses of curriculum. The pharmacological screening,pharmacovigilance,in-vivodruginteractionandtoxicitystudiesarepart ofdrugdiscoveryprocess.



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PO6	Conduct investigations of complete problems: The pharmacology helps to understand the biopharmaceutics and pharmacokinetics principles through different types of models. To understand pre-clinical toxicity studies, effect of different dosage forms, pharmacokinetics of drug and to assess bioavailability and bioequivalence in humans and animals.
PO7	Effective citizenship: Demonstrate social concern for irradiating various diseases and disorders for the development of healthy nation. Drug testing by the investigators involved a kind of moral trade-off and subjects are asked for to take risks for the greater good. Pharmacologist by practicing ethical clinical trials to protect human research's subjects. Investigators work in-line with guidelines of the regulatory bodies without any sort of ethical lapses and reckless during clinical trials.
PO8	Ethics: Apply citizen science models of public participation in clinical trials for health and biomedical research. For any research involving human beings and animals the researchers, bioethicists and institutional review board members offers their expertise and knowledge for research in animals and human beings. By minimizing the risk and towards favorable risk benefit ratio within the context of standard clinical practice and research protocols. These requirements are universal and are adopted for health, economic, cultural, technological conditions in which clinical research is conducted.
PO9	Environmental sustainability: The knowledge of manufacturing medicines also creates the sustainable pharmacology considering pharmacological substantial carbon foot print, going green with ultra-modern bioassay procedures in pharmaceutical industries is important than errors. This reduces the usage of animals and modern technologies offering sustainable pharmacology. The pharmacology also combines the environmental stewardship to improve public health while reducing pollution.
PO10	Self-directed and lifelong learning: Acquire the ability to engage in and independent format of employed by pharmaceutical companies. Pharmacologist acquire lifelong learning in the expansive format of socio-technological changes.




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Programme Outcomes (POs) for M. Pharmacy Pharmaceutics

PO1	Pharmaceutical Sciences knowledge: Apply the knowledge of mathematics, science, pharmaceutical physical properties of the different pharmaceutical ingredients and the factor influencing them is very valuable for pharmaceutical dosage form design. Enable the student to learn about different packaging materials used in pharmaceutical industry and the factors governing their use.
PO2	Unit Operations: Pharmaceutical engineering renders knowledge about the basic unit operations that are taking place in pharmaceutical industry and the different factors associated with it. This information is useful for both pharmaceuticals and pharmaceutical engineering.
PO3	Entrepreneurship: The knowledge on different pharmaceutical dosage forms are imparted on students. This knowledge comes while handling a pharmacy or a manufacturing unit or in the further courses.
PO4	Design/Development of solutions: The information on solid dosage forms like tablets and capsules, their formulation and quality control serves as an important prerequisite for dosage form design.
PO5	Application oriented Knowledge: The knowledge of biopharmaceutics enable the students to visualize the effect of pharmacokinetic (ADMET) parameters on the biological effect of the drug. The correlation of pharmacokinetics and pharmacodynamics is thus introduced and is experimentally explained to them.
PO6	Conduct investigations of complex problems: To understand biopharmaceutical principles and pharmacokinetic principles through different compartment models, multiple dosage regimens, non-linear pharmacokinetics, and assessment of bioavailability and bioequivalence
PO7	Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO8	Ethics: Recognized different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.




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PO9	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
PO10	Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.



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