



DEVI AHILYA VISHWAVIDYALAYA, INDORE
SCHOOL OF PHARMACY
Takshashila Campus, Khandwa Road (Ring Road) Indore-452001, India
Phone 91-731 2100605, E-mail: sopdavv@gmail.com
Site: www.dauniv.ac.in, www.pharmacy.dauniv.ac.in



PROGRAM OUTCOME (PO)

BACHELOR OF PHARMACY

PO1	Pharmacy Knowledge and understanding	Provide basic knowledge and understanding of the principles in drug discovery, formulation, pharmacological evaluation, sophisticated instruments and their applications in the area of Pharmaceutical Sciences and Technology.
PO2	Technical Skills	Provides in depth knowledge on usage of various equipments and different kinds of simulation software to perform experiments on synthesis, drug design, pharmaceutical analysis, pharmacological evaluation and formulation development.
PO3	Modern tool usage	Enables to understand techniques, models, and software for prediction, interpretation of data and analysis of data generated in pharmaceutical processes like formulation, quality assurance, quality control, etc.
PO4	Research and Development	<p>Provides an in depth knowledge to identifying a problem, critical thinking, analysis and provide rational solutions in different disciplines of Pharmaceutical Sciences and Technology.</p> <p>Provides practical based education to apply the concept of manufacturing, formulation, pharmaceutical analysis, drug design, medicinal chemistry and quality control in the drug discovery and development of various pharmaceutical and cosmetic products.</p>



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PO5	Lifelong Learning	<p>Inculcate an aptitude for continuous learning and professional development with ability to engage in pharmacy practice and health education programs.</p> <p>Develop problem-solving skills and aptitude to participate and succeed in competitive examinations.</p>
PO6	Communication skills	<p>Enables effective oral and written communication on health care issues, research and development and other Pharmaceutical problems.</p>
PO7	Patient counseling and Pharmaceutical Care	<p>Provide an aptitude to promote health awareness and disease prevention. Provides knowledge to comprehend medical prescription, perform patient counseling and dispensing of drugs in Pharmacy practice.</p>
PO8	Ethics	<p>Follow the code of ethics and commit to professional values and responsibilities and norms of the Pharmacy practice.</p>
PO9	Invention and Entrepreneurship	<p>Provides an ability to implement the knowledge to execute the responsibilities successfully towards developing expertise, to grow as an entrepreneur and serve the needs of industry and academia.</p>

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PROGRAM SPECIFIC OUTCOMES (PSO)

BACHELOR OF PHARMACY

PSO1	Understanding of basic principles of Pharmaceutical Chemistry, Pharmaceutics, Pharmacology and Pharmacognosy for drug discovery and formulation development.
PSO2	Understanding of the formulation parameters in manufacturing of a dosage form, storage, packaging and dispensing of dosage forms.
PSO3	Understanding of basics principles for drug analysis through conventional methods and modern sophisticated instruments.
PSO4	Understanding of drug chemistry and its structure for synthesis of drug and drug designing using modern software.
PSO5	Understanding of crude drug, its identification, extraction and purification for its medicinal value
PSO6	Understanding of pharmacological action of drugs and their evaluation for their therapeutic effectiveness.
PSO7	Understanding of documentation, quality control and quality assurance of all the processes and pharmaceutical formulations.
PSO8	Understanding of biostatics, novel drug delivery systems, molecular modeling, pharmcovigillence, Pharma management etc as per the need of industry and future prospects.

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Program Outcome (PO)

MASTER OF PHARMACY

PO1	Drug discovery/synthesis	Provide basic knowledge and understanding of the principles in drug discovery, chemistry and structure of drugs, organic reactions, and mechanism of action, identification and analytical chemistry.
PO2	Advanced Technical Skills	Provides in depth knowledge on usage of various equipments and different kinds of simulation software to perform experiments on synthesis, drug design and interpretation of analytical data generated from LC-MS, GC-MS, ATR-IR, DSC etc. theoretically and practically.
PO3	Research and Development	Provides an in depth knowledge to identifying a problem, critical thinking, analysis and provide rational solutions in design and development of medicinal compounds.
PO4	Learning Aptitude	Inculcate an aptitude for continuous learning and professional development with ability to engage in research and development.
PO5	Scientific Writing	Enables effective oral and written communication on research and development and other analytical issues.
PO6	Ethics	Follow the code of ethics and commit to professional values and responsibilities and norms of the Pharmacy practice.

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PO7	Research and development	Provides practical based education to apply the concept of pharmaceutical analysis, organic reactions, drug design, medicinal chemistry and quality control in the drug discovery and development of various medicinal compounds.
PO8	Invention and Entrepreneurship	Provides an ability to implement the knowledge to execute the responsibilities successfully towards developing expertise, to grow as an entrepreneur and serve the needs of industry and academia.

Signature

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Program Specific outcomes (PSO)

Master of Pharmacy (Pharmaceutical Chemistry)

PSO1	Understanding of basic principles of organic Chemistry, medicinal chemistry, natural products and their related synthesis and analysis.
PSO2	Understanding of the mechanisms for various reactions in order to carry out an organic reaction, including isolating, purifying, and characterizing the product.
PSO3	Understanding of the processes involved in the design, development and discovery of medicinal compounds and mechanism of action of various drug molecules.
PSO4	Understanding of different types of natural products, their occurrence, structure, biosynthesis, their properties and the use of natural products as starting materials.
PSO5	Understanding to apply various organic reactions in single & multistep process in manufacturing of drugs and drug intermediates
PSO6	Understanding of various molecular modeling soft-wares in the design of novel drug-like molecules and to apply the various soft-wares for physico-chemical property prediction.
PSO7	To predict the outcome of organic reactions using a basic understanding of the general reactivity of functional groups and mechanism.


Dr. Tamanna Narsinghani
DQAC, Coordinator


Dr. Rajesh Sharma
Head