



VIVEKANAND EDUCATION SOCIETY'S COLLEGE OF PHARMACY

Hashu Advani Memorial Complex, Behind Collector Colony, Chembur (E), Mumbai – 400 074

Sindhi Linguistic Minority, Approved by AICTE, DTE, Pharmacy Council of India & Govt. of Maharashtra, Affiliated to University of Mumbai

B. Pharm Programme is accredited by NBA, New Delhi from 2016-17 to 2021-22

2.6.1

**Teachers and students are aware of the
stated Programme and Course outcomes
of the Programme offered by the
institution**



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Program Outcomes



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PROGRAM OUTCOMES

- 1. Pharmacy Knowledge:** Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including biomedical sciences; pharmaceutical sciences; behavioural, social, and administrative pharmacy sciences; and manufacturing practices.
- 2. 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.
- 3. Problem analysis:** Utilize the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems and making decisions during daily practice. Find, analyse, evaluate and apply information systematically and shall make defensible decisions
- 4. Modern tool usage:** Learn, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations.
- 5. 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 citizens or leadership roles when appropriate to facilitate improvement in health and wellbeing.



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6. Professional Identity: Understand, analyse and communicate the value of their professional roles in society (e.g. health care professionals, promoters of health, educators, managers, employers, employees).

7. Pharmaceutical Ethics: Honour personal values and apply ethical principles in professional and social contexts. Demonstrate behaviour 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.

8. 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.

9. 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.

10. 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.

11. 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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Program Specific Outcomes



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PROGRAM SPECIFIC OUTCOMES

Purpose	The purpose of this document is to define the program outcome of the M. Pharm program in Pharmaceutical Chemistry at the Vivekanand Education Society's College of Pharmacy.
Scope	<p>In addition to PO's defined by the NBA, Program Specific Outcomes (PSOs) are needed to be defined. PSO are the statements that describe what the graduates of a specific program should be able to do. The program applies to all the courses taught in M. Pharm program in Pharmaceutical Chemistry at VESCOP with following objectives</p> <ul style="list-style-type: none"> ▪ To monitor the correlation of subjects and enable the calculation of attainment, and serves the purpose of Outcome Based Education (OBE). ▪ For continuous improvement and maintaining the quality of the program by dynamically adapting to the requirements of the different stakeholders like Students, Parents, Industry Personnel and Recruiters ▪ To map the contribution of program towards the institution's vision and mission



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PROGRAM SPECIFIC OUTCOMES-M.PHARM

DEPARTMENT OF PHARMACEUTICS

Sr. No.	PSO Term	Statement
PSO 1	Analytical Thinking & Problem solving ability	Be able to understand and apply knowledge of novel and advanced drug delivery systems in single and combination dosage forms for their formulation development, quality control testing and evaluation, selection of polymers and excipients, demonstrate skills for dose calculations, dose adjustments use computers in pharmaceutical research and development and apply knowledge of biopharmaceutics and pharmacokinetics in practical problem solving for development of formulations and cosmeceuticals.
PSO 2	Create and innovate	Be able to develop generic/innovator dosage form, create various regulatory filing documents and approval. Preparation of dossiers, post approval regulatory requirements, CTD/eCTD formats, clinical trials and Pharmacovigilance and process of monitoring in clinical trials. Artificial Intelligence (AI) and Robotics, Computational fluid dynamics(CFD) and their use Pharmaceutical Sciences.



PSO 3	Quality management and translational research	Be able to comprehend the basis of preformulation studies, optimization techniques, pilot plant scale up, industrial management and GMP considerations, undertake research projects under faculty guidance for practical training and application of knowledge leading to publication of papers, opt for research as a career or go for higher studies. Students should develop theoretical and practical skills of instruments
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PROGRAM SPECIFIC OUTCOMES-M.PHARM

DEPARTMENT OF QUALITY ASSURANCE

Sr. No.	PSO Term	Statement
PSO 1	Analytical thinking and problem-solving ability	Perform quality evaluation of pharmaceuticals, understand concept of Quality Assurance and apply principle-based approach to solve complex situations. Suggest remedial actions.
PSO 2	Create and Innovate	Provide inputs to create protocols for new products and analytical methods development based on modern technologies. Generate documents to comply Regulatory requirements.

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PSO 3	Quality Management System (QMS) and Technology Transfer (TT)	Apply the knowledge gained to transfer newer technologies for inventing quality, safe and efficacious medicines for mankind supplemented with quality audits.
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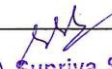
PROGRAM SPECIFIC OUTCOMES-M.PHARM

DEPARTMENT OF M. PHARM. AND PH. D IN PHARM. CHEM.

DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

Sr. No.	PSO	Statement
PSO 1	Analytical thinking and problem-solving ability	Perform quality evaluation of pharmaceuticals, problems eg those in isolation, separation, synthesis, purification, identification and screening of chemical entities and provide principle-based solutions
PSO 2	Create and innovate	Design and synthesize new chemical entities and develop evaluation models using economic and eco-friendly strategies
PSO 3	Quality management and translational research	Apply principles of quality through use of state of art tools and techniques for designing solutions to healthcare, societal and industrial problems




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