



## VIVEKANAND EDUCATION SOCIETY'S

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

### PROGRAM SPECIFIC OUTCOMES

<b>Purpose</b>	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.
<b>Scope</b>	<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"><li>▪ To monitor the correlation of subjects and enable the calculation of attainment, and serves the purpose of Outcome Based Education (OBE).</li><li>▪ 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</li><li>▪ To map the contribution of program towards the institution's vision and mission</li></ul>

## PROGRAM SPECIFIC OUTCOMES-M.PHARM

### DEPARTMENT OF PHARMACEUTICS

Sr. No.	PSO Term	Statement
<b>PSO 1</b>	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.
<b>PSO 2</b>	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.

<b>PSO 3</b>	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**

<b>Sr. No.</b>	<b>PSO Term</b>	<b>Statement</b>
<b>PSO 1</b>	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.
<b>PSO 2</b>	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.

<b>PSO 3</b>	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**

<b>Sr. No.</b>	<b>PSO</b>	<b>Statement</b>
<b>PSO 1</b>	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
<b>PSO 2</b>	Create and innovate	Design and synthesize new chemical entities and develop evaluation models using economic and eco-friendly strategies
<b>PSO 3</b>	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