

**Vidarbha Youth Welfare Society's**  
**INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH**  
**Borgaon (Meghe), Wardha (M.S.)**

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**PROGRAMME OUTCOMES (PO) AND PROGRAMME SPECIFIC OUTCOMES (PSO)**

<b>Programme</b>	<b>PO/PSO Number</b>	<b>Programme outcome/Programme Specific Outcome</b>
<b>B. Pharm</b>	PO1	Pharmacy Knowledge: possess and apply core and basic knowledge associated with chemical synthesis, pharmaceutical technology, pharmacology, pharmacognosy and formulation development.
	PO2	Planning Abilities: Demonstrate effective planning abilities including time management, resource management, delegation skills and organizational skills. Develop plans, and implement them. Organize work to meet deadlines.
	PO3	Problem Analysis: can identify and analyze the problem and interpret data generated from formulation development, quality control and quality assurance to find the solution.
	PO4	Modern tool usage: Create, select and apply appropriate techniques, resources and modern pharmacy related IT tools to complex activities in the field of pharmacy with an understanding of limitations.
	PO5	Leadership skills: Understand and consider the human reaction to change, motivation issues, leadership and team-building, assume participatory roles as responsible citizens or leadership role while fulfilling professional and societal responsibilities.
	PO6	Professional Identity: understand and communicate the value of their professional role in society (health care professionals, promoters of health, educators, managers, employers, employees).
	PO7	Pharmaceutical Ethics: Apply ethical frameworks, and ethical principles while making decisions and take responsibility for the outcomes associated with the decision. Capable of working with sense of involvement exhibiting leadership quality and expertise in soft skills.
	PO8	Communication: Able to communicate effectively with pharmacy community and with the society in both verbal and written form.
	PO9	The Pharmacist and society: serving the community as a member of health care system, should be able to deliver quality pharmaceutical care in hospital/ community pharmacy set up.

	PO10	Environment and sustainability: understand the impact of Pharmacy Professional solutions in societal and environmental contexts and strive for eco-friendly pharmaceutical operations/ services to maintain public health.
	PO11	Life-long learning: recognize the need for, and instil the ability to engage in independent, and lifelong learning ability in ever evolving technological world. Self- assess effectively to identify learning needs and satisfy these needs on an ongoing basis.
	PSO1	To enrich students with a graspable theoretical and practical concept in myriad fields of pharmaceutical sciences such as, pharmaceutics, pharmaceutical chemistry, pharmacology and pharmacognosy apropos the requirement of pharmaceutical industries and research.
	PSO2	Able to do multidisciplinary jobs in the pharmaceutical industries in various departments and would be able to write effective project reports in multidisciplinary environment in the context of changing technologies.
	PSO3	Able to utilize the knowledge and skills gained to partake in the drug development team involving varied scientific disciplines like drug discovery, preclinical, clinical, analytical, formulation development, regulatory, management and marketing.
<b>M. Pharm</b>	PO1	Problem Analysis and development of solutions: capable of using statistical tools for sampling, analysis and interpretation of scientific data and arrive at scientifically reliable results.
	PO2	Innovations: acquired expertise to carry research and development in the respective disciplines of pharmaceutical sciences and technology.
	PO3	Modern tool usage: acquired expertise in the operation and maintenance of sophisticated instruments and equipment and different kinds of software to perform experiments in the selected specialization.
	PO4	Apply ethical principles while making decisions and take responsibility for the outcome associated with decisions.
	PO5	Individual and Team work: function effectively as an individual and as an active member or leader of a team in multidisciplinary setting.
	PO6	Communication: possess effective written communication, verbal communication and scientific documentation skills.
	PSO1	Carry out highly sensitive analytical procedures using sophisticated instruments and interpret the data scientifically.
	PSO2	Gain skill in developing and validating newer analytical methods for pharmaceutical dosage forms using advanced analytical techniques and modern computing tools as per regulatory needs.

PSO3	Gain skill in developing and validating newer analytical methods for pharmaceutical dosage forms using advanced analytical techniques and modern computing tools as per regulatory needs.
PSO4	Demonstrate the ability to establish quality control protocols for pharmaceuticals, herbal drugs, cosmetics and food products.
PSO5	Able to apply the knowledge of IPR, Validation concept, impurity profiling and pharmaceutical regulatory affairs.
PSO6	Gain skills necessary for performing SIAM studies, impurity profiling studies as per ICH guidelines.
PSO7	Gain expertise to carry calibration and validation of various analytical instruments and write the validation report.
PSO8	Develop skill in computer handling and also handling of design software for QbD studies.
PSO9	Undertake research projects and publish them.
PSO10	Motivate themselves to undertake higher studies for career growth.



*(Signature)*  
 (Dr. R. O. Ganjiwale)

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