



MAR DIOSCORUS COLLEGE OF PHARMACY

(Owned & Managed by the Charitable & Educational Society of the Thiruvananthapuram Orthodox Diocese Reg. No. 977/91)

Hermongiri Vidyapeetam, Alathara, Sreekariyam

Thiruvananthapuram - 695 017, Kerala, India.

Email : gabrielmargregorios@gmail.com

PROGRAM OUTCOME: B PHARM

1. **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.
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, analyze, 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 fulfillment of practice, professional and societal responsibilities. Assume participatory role as responsible citizens or leadership roles when appropriate to facilitate improvement in health and well-being.
6. **Professional Identity:** Understand, analyze 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 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.

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.

PROGRAM SPECIFIC OBJECTIVES (PSOS) – B.PHARM

PSO 1: Provide strong foundational knowledge in pharmaceutical sciences including Pharmaceutical Chemistry, Pharmacology, Pharmacognosy, Pharmaceutics, and Pharmacy Practice.

PSO 2: Develop professional competence in formulation development, pharmaceutical manufacturing, quality control, quality assurance, and regulatory aspects of pharmaceutical products.

PSO 3: Train students to deliver safe, effective, and ethical pharmacy services including patient counseling, pharmacovigilance, and promotion of rational use of medicines.

PSO 4: Promote analytical thinking, problem-solving ability, and research skills to support innovation, drug development, and evidence-based pharmaceutical practice.

PSO 5: Enhance communication skills, leadership qualities, teamwork, entrepreneurship, and professional ethics to function effectively in healthcare and pharmaceutical industries

PROGRAMME SPECIFIC OUTCOMES (PSOs): B PHARM

PSO1: Develop a strong foundation in Pharmaceutical Sciences including Pharmaceutics, Pharmaceutical Chemistry, Pharmacology and Pharmacognosy enabling application in academic, industrial and clinical settings.

PSO2: Demonstrate competency in dispensing, counselling, and pharmacovigilance services to ensure effective and safe use of medicines in hospital and community settings.

PSO3: Gain hands-on training in Drug formulation, Analysis, Quality control and regulatory affairs in compliance with Good Laboratory Practices (GLP) and Good Manufacturing Practices (GMP).

PSO4 – Strengthen the professional and ethical conduct to actively engage in multidisciplinary research, contributing to drug development and the advancement of healthcare.



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PROGRAM OUTCOME: PHARM D

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3. **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.
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 fulfillment of practice, professional and societal responsibilities. Assume participatory role as responsible citizens or leadership roles when appropriate to facilitate improvement in health and well-being.
6. **Professional Identity:** Understand, analyze 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 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.

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.

PROGRAMME SPECIFIC OBJECTIVES (PSOs) – PHARM.D

PSO1: To provide comprehensive knowledge of biomedical, pharmaceutical, and clinical sciences to enable effective participation in patient-centered healthcare.

PSO2: To train students in clinical pharmacy practice including patient assessment, medication therapy management, therapeutic drug monitoring, and pharmacovigilance.

PSO3: To develop competence in hospital and community pharmacy services, drug information services, and rational use of medicines.

PSO4: To inculcate professional ethics, communication skills, and interprofessional collaboration for effective healthcare delivery.

PSO5: To promote research aptitude and evidence-based practice in pharmacotherapy and clinical outcomes.

PROGRAMME SPECIFIC OUTCOMES (PSOs) – PHARM.D

PSO 1: Apply integrated knowledge of pharmaceutical, biomedical, and clinical sciences to deliver patient-centred pharmaceutical care.

PSO 2: Identify, prevent, and manage drug-related problems using evidence-based clinical decision-making.

PSO 3: Interpret clinical and laboratory data to optimize medication therapy outcomes and ensure patient safety.

PSO 4: Communicate and collaborate effectively with patients and multidisciplinary healthcare teams to promote rational drug use.

PSO 5: Demonstrate professional ethics, leadership, research orientation, and lifelong learning in pharmacy practice.



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PROGRAM OUTCOMES: M PHARM

- 1. 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.
- 2. Modern tool usage:** Learn, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations.
- 3. Innovations:** acquired expertise to carry out research & development in the respective disciplines of pharmaceutical sciences and technology.
- 4. Leadership skills:** Understand and consider the human reaction to change, motivation issues, leadership and team building when planning changes required for fulfillment of practice, professional and societal responsibilities. Assume participatory role as responsible citizens or leadership roles when appropriate to facilitate improvement in health and well-being.
- 5. 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.
- 6. Pharmaceutical ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of pharmacy practice. Apply ethical principles while making decisions and take responsibility for the outcome associated decisions.

PROGRAM SPECIFIC OBJECTIVES (PSOs) – M.Pharm

PSO1: To provide advanced theoretical knowledge and practical skills in Pharmaceutics to meet industry and research requirements.

PSO2: To develop expertise in advanced pharmaceutical techniques, analytical methods, formulation development, quality assurance, and regulatory compliance.

PSO3: To promote independent research capability through dissertation work, scientific writing, data analysis, and publication in peer-reviewed journals.

PSO4: To inculcate professional ethics, leadership qualities, and interdisciplinary collaboration for effective contribution to academia, pharmaceutical industry, and healthcare systems.

PSO5: To encourage innovation, entrepreneurship, and lifelong learning to address emerging challenges in pharmaceutical sciences.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO1: Apply the principles of drug delivery system in the development of eco- friendly, efficacious pharmaceutical dosage forms including novel drug delivery systems.

PSO2: Able to develop and evaluate new drug formulations and cosmetics meeting the regulatory specification.

PSO3: Able to carry out unit operations in pharmaceutical and cosmetics manufacturing.

PSO4: Able to carry out process validation as per regulatory requirements and possess knowledge of regulatory filings.

PSO5: Able to use scientific software tools in the Formulation development and pharmacokinetic investigation.