

# GIET SCHOOL OF PHARMACY

NH-16 Chaitanya Knowledge city. Rajahmundry - 533 296

## **B PHARM PROGRAM OUTCOMES**

- PO 1: Exhibit and understand the fundamental concepts and knowledge pertaining to the field of pharmacy
- PO 2: Learn the synthesis, formulation, analysis and pharmacological aspects of natural and synthetic drugs
- PO 3: To inculcate the development of research activities for new drug discovery on natural and synthetic molecules
- PO 4: Highlight the concepts for the benefit of academicians and to emphasize the concepts of community pharmacy and related areas of pharmacy with a focus on modern medications
- PO 5: Apply necessary methods and protocols related to modern pharmacy computing tools.
- PO 6: Exhibit personal values & professional roles in social context of the society.
- PO 7: Create qualified pharmacist with strong technical and scientific skills for competing in pharmaceutical and health care industry.
- PO 8: Apply moral principles that commit to professional ethics and abide by pharmacy standards.
- PO 9: Employ pharmaceutical techniques and procedures that have an impact on the social environment to support sustainable development with knowledge and responsibility.
- PO 10: Develop entrepreneurial abilities that will enable the expansion of the pharmaceutical industry and related services which will promote economic growth.
- PO 11: Recognize the need for training and aptitude as self sufficient and lifelong learning along with the ability to foster a talent for perpetual professional development.

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## M PHARM PROGRAM OUTCOMES

### M.PHARM (PHARMACEUTICAL ANALYSIS)

**PO1:** To deal with various advanced instrumental techniques for separation, identification, characterization, and quantification of drugs in bulk, formulation & biological samples.

**PO2:** To know the science of detection of impurities, stability of the product and regulatory guidelines.

**PO3:** To impart knowledge on analysis of food constituents and finished food products, food additives, the pesticides and the regulations of food and legislations of food products

**PO4:** To understand validation and its application in industry, their methodologies and application in manufacturing processes

**PO5:** To know about quality assurance aspects of pharmaceutical industries such as CGMP, Documentations, certifications, GLP, and other regulatory affairs

**PO6:** To create a talent pool by involving students in research projects and to make students undertake research projects under faculty guidance for publication

### M.PHARM (PHARMACEUTICAL QUALITY ASSURANCE)

**PO 1:** Develop consistency in quality related problem identification, analysis and solving.

**PO 2:** Conceptualise research ideas, develop oral and written communication skills including soft skills, frame and evaluate hypothesis by collating and interpreting data to draw meaningful conclusions.

**PO 3:** Inculcate a sense of fair play, social values and professional ethics.

**PO 4:** Acquire skills in managing human, financial and other resources efficiently to achieve the project objectives and stakeholder's satisfaction.

**PO 5:** Demonstrate competency in designing and using various quality tools for troubleshooting.

**PO 6:** Acquire skills in implementing modern tools like Quality by Design (QbD), Process Analytical Technology (PAT), Design of Experiments (DoE) and Technology Transfer etc.

**PO 7:** Demonstrate competency in the area of pharmaceutical quality systems, drug development research and drug regulations.

### **M.PHARM (PHARMACOLOGY)**

**PO 1:** Acquire a strong knowledge in theoretical & Practical aspects of Pharmacology subjects along with necessary skills.

**PO 2:** Gain Knowledge on modern Pharmacological tools and software's associated with Research and development.

**PO 3:** Must be able to compete in the modern Pharmacological domains of the industry like Pharmacovigilance, Regulatory affairs and new drug developments.

**PO 4:** Able to apply knowledge on new natural, synthetic and semi synthetic drug developments and must be able to provide most modern data acquisition and analysis system in the biological and Pharmacological research.

**PO 5:** Demonstrate High throughput screening mechanism in new drug discovery and development of challenging and expensive activities of the Pharmaceutical Industry.

**PO 6:** Succeed in pharmaceutical industry or academics through innovative teaching methodologies that stimulates students to self-learning and extend their knowledge.

### **M.PHARM (PHARMACEUTICS & PHARMACEUTICAL TECHNOLOGY)**

**PO 1:** Impart knowledge on the novel drug delivery systems, approaches, criteria for the selection of polymers and drugs and their formulation and evaluation.

**PO2:** To know various preformulating elements, industrial management and GMP considerations, Pilot Plant Scale up Techniques, Stability testing, sterilization and packaging of dosage forms.

**PO3:** To impart knowledge and skills for dose calculations, dose adjustments and apply biopharmaceutics theories in practical problem-solving. The pharmacokinetic models, bioequivalence and potential clinical pharmacokinetic problem analysis

**PO4:** Skill development in Pharmaceutical research, Pharmacoinformatic, in drug development in Computational modelling, Preclinical development, clinical development, Artificial Intelligence and Robotics, and Computational fluid dynamics.

**PO5:** To impart knowledge and skills necessary for cosmetics and cosmeceuticals, their safety and efficacy and current technologies in cosmetic industry.

**PO 6:** To create a talent pool by involving students in research projects and to make students undertake research projects under faculty guidance for publication.

**PO7:** To foster ambitious desire among students to undertake higher studies and career growth.

**PO 8:** Apply knowledge to create newer technology and skills in pharmaceutical technology development and research.

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## PROGRAM OUTCOMES - PHARM D & PHARM D (PB)

**PO 1:** Demonstrate knowledge of pharmacy practice and the ability to acquire, manage and use current information for problem solving, patient-specific, population-specific, evidence-based care to promote safe and optimal pharmacotherapy outcomes.

**PO 2:** Identify the rules and regulations involved in the drug discovery and development, distribution, sale and safe use of medicines and participate in the development of drug use policy.

**PO 3:** Apply critical thinking skills, including investigation, application, analysis, creativity, synthesis and evaluation of information, data and documents related to drug, poison, clinical investigations, pharmaceutical care and practices.

**PO 4:** Develop problem-based learning approach and analytical thinking in his/her academic and professional life.

**PO 5:** Demonstrate the ability to plan and implement professional activities.

**PO 6:** Act efficiently as a leader in the diverse areas of the profession.

**PO 7:** Write, interpret and communicate effectively and scientifically.

**PO 8:** Apply the knowledge and skills gained through education to gain recognition in professional circle and society.

**PO 9:** Partnering with other health care communities to provide innovative solutions.

**PO 10:** Create awareness in society about the effective and safe use of medicines.

**PO 11:** Demonstrate eco-friendly products and processes to maintain public health.

**PO 12:** Imbibe ethical practices and moral values in personal and professional endeavors.

**PO 13:** Identify and implement cost-effective patient care and resource management practices that do not compromise quality of care.

**PO 14:** Tackle future challenges through lifelong learning.