



NRI COLLEGE OF PHARMACY

(Run by Sri Durga Malleswari Educational Society)

(Approved by AICTE & PCI - New Delhi:: Affiliated to JNTUK, Kakinada)

Pothavarappadu (V), (Via) Nunna, Agiripalli (M), Krishna District, A.P., Pin: 521 212, Cell: 9394686868

M. PHARMACY PROGRAMME

(Pharmaceutics)

Programme Outcomes

After the completion of the M.Pharm Pharmaceutics programme the students will be able to,

1. Produce Pharmacy graduates with strong basics and high technical knowledge to cater the various areas of Pharmaceutical industry.
2. Develop an understanding for the need of pharmaceutical sciences and technology towards giving quality life to people in society through the quality of medicines.
3. Apply the knowledge and skills gained through education to gain recognition in professional course and society.
4. Impart knowledge and skills on criteria for selection of drugs, dose calculations, dose adjustments by applying biopharmaceutical theories, pharmacokinetic and bioequivalence models which gives technical skill knowledge in In-vitro and In-vivo studies using computer simulations.
5. Act efficiently as a leader in the diverse areas of the profession to demonstrate the ability to plan and implement professional activities.
6. Provide a practical knowledge of the basic pharmaceutical sciences and the skill, acquire to deal with problems in pharmaceutical field
7. Develop ability for in-depth information and critical thinking in order to identify, formulate and solve the issues related to Pharmaceutical Industry, Regulatory Agencies.
8. Identify the goals and regulations involved in the drug discovery and development, manufacture, distribution and sale of medicines and develop problem-based learning approach and analytical thinking in his/her academic and professional life.
9. To update the knowledge through continuous learning to face the challenges for better services to the community.
10. Design and develop process to perform experiments in various pharmaceutical areas like Formulation and Development.
11. Fill the gap with other health care communities to provide innovative solutions for the purpose of maintain public health.
12. Understand, analyze and communicate the value of their professional roles in society (e.g. health care professionals, promoters of health, educators, managers, employers, employees).



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M. Pharmacy (Pharmaceutical Analysis)

Program Outcomes

PO1 Analytical Knowledge: Develop a comprehensive understanding of a particular field or professional domain, encompassing broader and worldwide viewpoints, while demonstrating the capacity to differentiate, appraise, scrutinize, and integrate information.

PO2 Problem Solving: To effectively employ analytical methods and engage in discerning and reflective thinking, when addressing challenges and reaching conclusions.

Discover, scrutinize, assess, and systematically employ information, leading to sound and justifiable decision-making.

PO3 Modern Techniques: To acquire knowledge, select and utilize suitable techniques and processes, along with relevant computer tools, while considering their practical uses.

PO4 Regulatory Adherence: To demonstrate comprehension and adherence to the ethical principles and regulations set forth by regulatory bodies in different countries and the Government of India, ensuring the implementation of sound laboratory practices.

PO5 Collaborative and Multidisciplinary work: Understand group dynamics, contribute to collaborative research, demonstrate self-management and teamwork, make unbiased decisions, and foster learning for oneself and others.

PO6 Research Skill: Apply advanced cognitive skills to gather information through literature review and experiments. Utilize appropriate research methodologies, techniques, and tools. Design and conduct experiments, analyze data, and demonstrate higher-order thinking. Contribute to the development of scientific knowledge in pharmaceutical sciences individually or as part of a group.

PO7 Critical Thinking: To enhance cognitive abilities and acquire comprehensive understanding in the creation of innovative approaches, impurity profiling, and validation protocols applicable for both routine and laboratory applications, thereby fostering critical thinking and logical reasoning.

PO8 Environment and Sustainability: Evaluate the environmental implications and sustainable aspects by assessing the presence of biohazardous solvents and chemicals.

PO9 Project management abilities: Apply efficient delegation and organizational abilities. Arrange tasks by implementing essential strategizing and implementation to adhere to set time limits.

PO10 Ethics: Exhibit outstanding professional, ethical, and legal conduct by adhering to the drug, pharmaceutical, and pharmacy-related laws and regulations set forth by central and state authorities.



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PHARMACEUTICAL QUALITY ASSURANCE

Programme Outcomes

This four semester programme has the following specific features:

- 1) Emphasis on modern analytical techniques like spectroflurometry, infrared spectrophotometry, NMR, Spectrometry HPLC, X-ray diffraction analysis and spectral analysis.
- 2) Thrust on good manufacturing practices, quality audits, documentation and validation with a view to create total quality consciousness.
- 3) Packaging and product development courses designed to teach current trends in formulation of pharmaceuticals and newer drug delivery systems.
- 4) Understanding of Regulatory affairs, New Drug Application and patenting procedures.
- 5) Students work on a research project for two semesters and submit a dissertation at the end of fourth semester for which they are evaluated by subject experts.