



JAYAMUKHI EDUCATIONAL SOCIETY

JAYAMUKHI COLLEGE OF PHARMACY

(Approved by AICTE & PCI, New Delhi & affiliated to Kakatiya University, Warangal, T.S)
NARSAMPET, Dist. Warangal - 506 332, (T.S)

Programme Outcomes (POs) for M. Pharmacy Pharmacology

PO1	Pharmaceutical science knowledge: Apply the knowledge of Biostatistics, Physiology, Pharmaceutical physical properties of formulations and factors influencing for pharmacological effects from different dosage form. Enables the students to learn about the advances in pharmacology of various drugs and with respective different formulations. Appraise about pre-clinical evaluation knowledge on various new chemical entities, new formulations and to build and understand the pharmacokinetic and pharmacodynamic principles.
PO2	Unit operations: The Biopharmaceutics renders knowledge about the basic principles of unit operations involve in a physical change or chemical transformation such as crystallization, polymerization, isomerization and other biological reactions taking place in the human body and different factors associated with it. The information useful for both the scientist, students in the area of pharmacology and pharmaceutics.
PO3	Entrepreneurship: The knowledge of different pharmaceutical dosage form and devices effects on human study. The effect of the dosage form design will serve as important factor to elicit for pharmacological action. The same knowledge is applied for conducting pre-clinical trials and various phases of clinical trials in human beings and other areas of biomedical research.
PO4	Design/ Development of solution: The information and knowledge on the planning and execution of clinical trials the various phases of clinical trials and health outcome measures serves as an important prerequisite for the initial phases of development data and bioavailability and bioequivalence studies
PO5	Application oriented knowledge: The knowledge of biopharmaceutics helps in designing a protocol for different types of clinical studies, be it molecular or biochemical or to understand the trends in modern drug discovery. The broad relevance of the subjects has its importance in diagnosis and treatment of diseases and is very well connected to other courses of curriculum. The pharmacological screening, pharmacovigilance, in-vivo drug interaction and toxicity studies are part of drug discovery process.

PO6	<p>Conduct investigations of complete problems: The pharmacology helps to understand the biopharmaceutics and pharmacokinetics principles through different types of models. To understand pre-clinical toxicity studies, effect of different dosage forms, pharmacokinetics of drug and to assess bioavailability and bioequivalence in humans and animals.</p>
PO7	<p>Effective citizenship: Demonstrate social concern for irradiating various diseases and disorders for the development of healthy nation. Drug testing by the investigators involved a kind of moral trade-off and subjects are asked for to take risks for the greater good. Pharmacologist by practicing ethical clinical trials to protect human research's subjects. Investigators work in-line with guidelines of the regulatory bodies without any sort of ethical lapses and reckless during clinical trials.</p>
PO8	<p>Ethics: Apply citizen science models of public participation in clinical trials for health and biomedical research. For any research involving human beings and animals the researchers, bioethicists and institutional review board members offers their expertise and knowledge for research in animals and human beings. By minimizing the risk and towards favorable risk benefit ratio within the context of standard clinical practice and research protocols. These requirements are universal and are adopted for health, economic, cultural, technological conditions in which clinical research is conducted.</p>
PO9	<p>Environmental sustainability: The knowledge of manufacturing medicines also create the sustainable pharmacology considering pharmacological substantial carbon foot print, going green with ultra-modern bioassay procedures in pharmaceutical industries is important than errors. This reduces the usage of animals and modern technologies offering sustainable pharmacology. The pharmacology also combines the environmental stewardship to improve public health while reducing pollution.</p>
PO10	<p>Self-directed and lifelong learning: Acquire the ability to engage in and independent format of employed by pharmaceutical companies. Pharmacologist acquire lifelong learning in the expansive format of socio-technological changes.</p>