



# SRI INDU INSTITUTE OF PHARMACY

Sponsored by New Loyola Model Educational Society, Hyderabad.

(Approved by PCI – New Delhi, Affiliated to JNTUH- Hyderabad.)

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## PROGRAM SPECIFIC OUTCOMES (PSO'S)

<b>PSO's of B.PHARMACY COURSE</b>	
PSO1	Fundamental knowledge in the process of turning a new chemical entity or old drug into a medication to be used safely and effectively by patients
PSO2	Study the physical, chemical, biochemical and biological properties of drugs, drug substances or potential drugs of natural origin as well as the search for new drugs from different natural sources.
PSO3	Study the interactions that occur between a living organism and chemicals that affect normal or abnormal biochemical function.
PSO4	Command on rules and regulations of pharmacy, pharmacy practice and also relating to drugs and pharmaceuticals.
PSO5	Acquire knowledge on identification , determination, separation , purification and structure elucidation of given compound used in the formulation of pharmaceutical products
PSO6	Acquire knowledge on pharmaceutical disciplines useful to improve the outcome of drug therapies , assist drug product development and establish pharmacokinetic models and invitro invivo correlations.
PSO7	Focus on molecular aspects of drug action , interactions with drug targets, relationships of drug chemical structure to drug action and the effect of metabolism on the drug structure and hence its action.

<b>PSO'S OF PHARM.D &amp; PHARM.D (PB) COURSES</b>	
PSO1	Apprehend various drug distribution methods, know the professional practice management skills in hospital pharmacies.
PSO2	Dispense unbiased and authentic information's to all the stakeholders of health, appreciate practice-based research methods, and appreciate stores management and inventory control.
PSO3	Contrive personalized therapeutic strategies based on diagnosis, observing treatment, time-course of clinical and laboratory indices of therapeutic response and adverse effects.
PSO4	Elucidate patient care in performing medication history, interpretations of laboratory data, categorizing potential-medicine related impacts of Pharmacotherapy.
PSO5	Concede the clinical aspects of drug development, such as phases, ethical issues, and roles and responsibilities of clinical trial personnel and able to design clinical study documents, data management and safety monitoring in clinical trials.
PSO6	Relinquish the services to the public by providing patient centric effective treatments to curb the therapeutic issues with the required medicines and explain the effects of the drugs.

<b>PSO'S OF M.PHARMACY COURSE</b>	
PSO1	To set forth theoretical and practical knowledge among students in the various fields of pharmaceutical sciences , pharmaceutics , pharmaceutical chemistry , pharmacology and pharmacognosy.
PSO2	To ameliorate practical skills of students through industrial training and research to confront the pharmaceutical field.
PSO3	To acquaint the students with fundamental regulatory aspects of pharmaceutical Professionals, Industry, Education and Practice.
PSO4	To boost knowledge and skills on criteria for selection of drugs, dose calculations, dose adjustments by applying biopharmaceutics theory, pharmacokinetic and bioequivalence models which gives technical skill knowledge, invitro invivo studies using computer simulations and population modellings.
PSO5	To expand the knowledge in technical and professional careers in various pharmaceutical industry/institution/health care system through concurrent meticulous education.
PSO6	To plan the modern tools to integrate health care systems. Design an effective product with commercial advantage and societal welfare, execute risk and become an entrepreneur.

<b>PSO'S OF M.PHARMACY (PHARMACEUTICS)</b>	
PSO1	Will develop an ability to undertake multidisciplinary tasks in the pharmaceutical quality system.
PSO2	Can identify and resolve the research problems by utilizing the technical skill gained through training and experimentation.
PSO3	Execute team based research to implement innovative solutions in the area of formulation, quality assurance and technology transfer.
PSO4	Know the basic and advanced scientific facts and principles along with skills in design and development of novel drug delivery systems.

<b>PSO'S OF M. PHARMACY (PHARMACEUTICAL ANALYSIS)</b>	
PSO1	Can apply the principals involved in determination with addition to theoretical aspects, basic practical knowledge in modern analytical techniques.
PSO2	Will be able to apply various analytical techniques in determination of food constituents and finished food products.
PSO3	Can comprise the aspects of spectral analysis, dissolution parameters etc. and quantitative determination of various organic compounds.
PSO4	Will acquire knowledge on various types of phytoconstituents on the basis of chemistry data.

**PSO'S OF M. PHARMACY  
(PHARMACEUTICAL QUALITY ASSURANCE)**

PSO1	Be able to divulge the cognition in Modern Analytical techniques in various aspects of determination and validation of drugs and formulations.
PSO2	Will understand the importance of documentation, cGMP, GLP and certification applicable to pharmaceutical industries.
PSO3	Will expand the knowledge regarding the regulatory aspects in the pharmaceutical industries.
PSO4	Capable in managing various departments like QA, QC, RA, Production etc.

**PSO'S OF M. PHARMACY  
(PHARMACEUTICAL REGULATORY AFFAIRS)**

PSO1	Can apply the principals involved in determination with addition to theoretical aspects, basic practical knowledge in modern analytical techniques. How to prepare for the readiness and implementation of fundamental aspects on various regulatory practices.
PSO2	Develop insight towards drug regulatory affair aspects in pharmaceutical industries.
PSO3	Interpret the values of total quality management in various quality control and regulatory facet.
PSO4	Should be capable of understanding complete particulars about validation, types, methodology and application.

**PSO's of M. Pharmacy (PHARMACY PRACTICE)**

<b>PSO1</b>	Knowledge and skills in optimizing drug therapy of patient through evidence-based medicines.
<b>PSO2</b>	Ameliorate the skills that are required to practice pharmacy, to both health care professionals and patients in clinical settings.
<b>PSO3</b>	Apprentice in the field of handling first aid.
<b>PSO4</b>	Insight regarding the regulatory aspects in pharmaceutical industry.