



Koneru Lakshmaiah Education Foundation

(Category -1, Deemed to be University estd. u/s. 3 of the UGC Act, 1956)

◆ Approved by AICTE ◆ ISO 21001 2018 Certified

Campus: Green Fields, Vaddeswaram - 522 302, Guntur District, Andhra Pradesh, INDIA.

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KL College of Pharmacy

Program: Pharm. D

Academic Year :2025-2026

Course Code	Course Title	CO. No	Description of the course Outcome
25PY6101T	Human Anatomy and Physiology	CO1	Understand the cellular level and tissue level of organization in the human body, Process of blood cell, Lymph formation and their importance in body physiology
		CO2	Understand the gross anatomy and functions of organs involved in circulatory and respiration
		CO3	Understand the process of digestion, and Anatomical location, physiological functions of human nervous system
		CO4	Understand and acquire the knowledge on endocrinal hormones and Physiology of excretory organs.
		CO5	Understand and summarise the Anatomy and functions of special sense organs, and understand the process of reproduction
		CO6	Understand and elaborate the skeletal system of humans and sports physiology
25PY6101P	Human Anatomy and Physiology	CO1	Application of gross morphology of body organs using microscope and Determining blood cell count. Determining ESR, Blood Haemoglobin and Bleeding time
		CO2	Determination of Blood pressure and Blood group, Identifying various Parts of Skeletal, Cardiovascular, Respiratory, Digestive, Urinary systems with models, charts & Specimens
		CO3	Identifying various Parts of Nervous, Special senses, Reproductive systems with models, charts & Specimens
25PY6102T	Pharmaceutics	CO1	Understand the different dosage forms, History of Pharmacy and pharmacopoeias
		CO2	Understand the Pharmaceutical Calculations involved in formulation and preparation of powder dosage forms
		CO3	Understand the preparation of Monophasic liquid dosage forms
		CO4	Understand the biphasic liquid dosage forms


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		CO5	To understand the concepts of suppositories and Gelanicals
		CO6	Understand the principles of Surgical aids and incompatibilities
25PY6102P	Pharmaceutics	CO1	Know the preparation of Syrups, elixirs and linctus, Preparation of Solutions and liniments
		CO2	Know the preparation of lotions and emulsions, Preparation of Powders and Suppositories
		CO3	Know the preparation of Incompatibilities, Preparation of ear drops and pastes
25PY6103T	Medicinal Biochemistry	CO1	Understand the catalytic activity of enzymes and importance of isoenzymes in diagnosis of disease and role of carbohydrates and their metabolic disorders
		CO2	Understand the metabolic process biomolecules in health and illness (metabolic disorders).
		CO3	Understand the concepts of the genetic organization of mammalian genome; protein synthesis, replication, mutation and repair mechanism
		CO4	Understand the biochemical principles of organ function tests of kidney, liver and endocrine gland
		CO5	Understand the principles, significance and methods of different biochemical tests
		CO6	Understand the Immunochemical techniques for determination of hormone levels and protein levels in serum.
25PY6103P	Medicinal Biochemistry	CO1	Analyse the catalytic activity of enzymes and importance of isoenzymes in diagnosis of disease and role of carbohydrates and their metabolic disorders
		CO2	Analyse the role of carbohydrates and their metabolic disorders and biological oxidation process in body ,Understand the liver and lipid profile tests
		CO3	Analyse the concepts of proteins, amino acids and genetic organization in mammals ,Understand the clinical chemistry of cell and kidney function tests
25PY6104T	Pharmaceutical Organic Chemistry	CO1	Understand the IUPAC/Common system of nomenclature of simple organic compounds
		CO2	To understand the organic reactions, reactivity, stability, mechanisms involved in aliphatic and alicyclic compounds
		CO3	To understand the free radical addition and the theory of resonance
		CO4	To understand the nucleophilic & electrophilic aromatic substitution reactions, reactivity, orientation
		CO5	To understand the named organic reactions with mechanisms and Interpret oxidation and reduction reactions
		CO6	To understand the preparation, test for purity, assay and medicinal uses of official compounds
25PY6104P	Pharmaceutical Organic Chemistry	CO1	Applying the knowledge to Synthesize organic compounds by acetylation, benzylation, bromination, condensation, diazotisation and coupling and hydrolysis methods.
		CO2	Applying the knowledge to Synthesize organic compounds by nitration reactions, oxidation,

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			reduction and miscellaneous reactions methods.
		CO3	Acquiring knowledge to Identify Phenols, amides, carbohydrates, amines, Carboxylic acids, aldehyde, ketones, alcohols, Carboxylic acids, aldehyde, ketones and alcohols Esters, hydrocarbons, anilides and nitro compounds
25PY6105T	Pharmaceutical Inorganic Chemistry	CO1	Make Use of Analytical knowledge in identifying errors and concepts of indicators in volumetric analysis
		CO2	Application of principles and procedures of analysis of drugs
		CO3	Application of principle of limit tests in identifying the impurities
		CO4	Understand the role of medicinal gases and drugs used to treat gastrointestinal diseases.
		CO5	Understand the role of electrolyte replenishers and essential trace elements to maintain physiological balance & MOA of antimicrobials
		CO6	Understand the importance of inorganic pharmaceuticals in preventing and curing the diseases.
25PY6105P	Pharmaceutical Inorganic Chemistry	CO1	To understand and test for identification of impurities and selected inorganic compounds
		CO2	Analyze the purity of selected inorganic compounds
		CO3	To Analyze and Estimate the mixtures and preparation of selected organic compounds
25PY610B6T	Remedial Biology	CO1	Understand the classification and salient features of plant kingdoms
		CO2	Understand the plants morphology and salient features of the plants.
		CO3	Understand the taxonomy of plants, fruits and seeds
		CO4	Understand the plant physiology and study of different microorganisms
		CO5	Understanding the anatomy of frog
		CO6	Understand the knowledge on general organization of mammals
25PY610M6T	Remedial Mathematics	CO1	Algebra: Determinants, Matrices Trigonometry : Sides and angles of a triangle, solution of triangles
		CO2	Analytical Geometry: Points, Straight line, circle, parabola
		CO3	Differential calculus and Partial differentiation
		CO4	Integral Calculus
		CO5	Differential equations
		CO6	Laplace transform
25PY610B6P	Remedial Biology	CO1	Applications of the Organisation of plants, plant tissues and plant kingdom and application of biological principles in study of plant kingdom
		CO2	Application of biological principles in studying morphology and plant physiology.
		CO3	Application of biological principles in study of taxonomy, microorganisms, animals and other poisonous animals.

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25PY6201T	Pathophysiology	CO1	To understand the basic principles of cell injury, adaptations and inflammation
		CO2	To understand the pathophysiology of diseases related to immunity
		CO3	To understand the detailed pathogenesis of cancer
		CO4	To understand biological effects of radiation, environmental and nutritional diseases
		CO5	To understand pathophysiology of common diseases
		CO6	To understand pathogenesis of Infectious diseases
25PY6202T	Pharmaceutical Microbiology	CO1	Understand methods of identification, classification and relationship among various microorganisms
		CO2	Understand nutritional requirements, cultivation and preservation of various microorganisms
		CO3	Understand the importance and implementation of sterilization in pharmaceutical processing and industry and learn disinfectants, procedures of disinfection for pharmaceutical products
		CO4	Understand of Immunology concepts, Antigen Antibody reactions, and immunization programs.
		CO5	Understanding of different diagnostic tests in microbiology including Elisa, Western Blot test, and PCR etc.
		CO6	Understand the diagnostic tests, microbial assays and infectious diseases
25PY6202P	Pharmaceutical Microbiology	CO1	Examine and Analyze various culture media for the growth of microorganisms, Identify and isolate bacteria
		CO2	Examine and analyse aseptic procedures, Carrying out sterilization and sterility testing of pharmaceuticals
		CO3	Test for antimicrobials and determine the MIC of antimicrobial agents, Conduct planned experiments and prepare laboratory report in a standard format.
25PY6203T	Pharmacognosy and Phytopharmaceuticals	CO1	To know the history and scope of Pharmacognosy and Classification of crude drugs
		CO2	Understand the cultivation, collection, and processing of crude drugs and study of cell constituents and natural pesticides
		CO3	To understand about the organic farming and different methods of pest control
		CO4	To know about the detailed study carbohydrates containing drugs.
		CO5	Understand the different methods of extraction, chemistry and analysis of lipids and oils and protein based natural drugs
		CO6	Understand different types of plants fibres used in surgical dressings and related products and understand different methods of adulteration of crude drugs
25PY6203P	Pharmacognosy and Phytopharmaceuticals	CO1	Apply the principles of pharmacognosy of macroscopy, microscopy, and powder characteristics of natural drugs.
		CO2	Apply the principles of pharmacognosy of powder

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			characteristics of natural drugs.
		CO3	Apply the principles of pharmacognosy to perform the different chemical tests
25PY6204T	Pharmacology-I	CO1	Understanding the pharmacological actions of different categories of drugs
		CO2	Understand the pharmacology of drugs acting on Autonomic nervous system
		CO3	Understand the pharmacology of drugs acting on cardio vascular system
		CO4	Understand the pharmacology of drugs acting on central nervous system
		CO5	Understand the pharmacology of drugs acting on Respiratory system
		CO6	Understand the pharmacology of hormonal and antihistaminic drugs
25PY6205T	Community Pharmacy	CO1	Understand the roles and responsibilities of community pharmacist
		CO2	Understand the layout and infrastructure requirements for community pharmacy
		CO3	Understand the need of inventory control and understand the various methods
		CO4	Understand the factors affecting medication adherence
		CO5	Application of pharmacy practice principles to Perform general patient counselling
		CO6	Apply health screening services in community pharmacy
25PY6206T	Pharmacotherapeutics-I	CO1	To understand etiopathogenesis and Pharmacotherapy of CVS diseases (Hypertension, Congestive cardiac failure, Angina Pectoris)
		CO2	To understand etiopathogenesis and Pharmacotherapy of CVS diseases (Myocardial infarction Hyperlipidaemias, Cardiac Arrhythmia)
		CO3	To understand etiopathogenesis and Pharmacotherapy of Respiratory system diseases
		CO4	To understand etiopathogenesis and Pharmacotherapy of Endocrine system diseases
		CO5	Understand the general prescribing guidelines for Paediatric, Geriatric, Pregnancy and Breast feeding, To understand etiopathogenesis and Pharmacotherapy of ophthalmology diseases
		CO6	To understand the Rational use of drugs
25PY6206P	Pharmacotherapeutics-I	CO1	Apply the knowledge and present the recorded cases in Cardiology department and Pulmonology
		CO2	Apply the knowledge and present the recorded cases in Endocrinology department and to understand the prescribing guidelines
		CO3	Apply the knowledge and present the recorded cases in Ophthalmology department and the guidelines in the rational of drug use
25PY6301T	Pharmacology-II	CO1	To understand the pharmacology of drugs acting on blood and blood forming agents and Renal system

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		CO2	To understand the pharmacology of chemotherapy
		CO3	To understand the immuno pharmacology and principles of animal toxicology
		CO4	To acquire the knowledge on cell, macromolecules, cell signalling, DNA replication and cell cycle.
		CO5	To understand the importance of gene and its structure, genome, gene expression, recombinant DNA technology and other associated aspects
		CO6	To understand the importance of RNA and other associated aspects
25PY6301P	Pharmacology-II	CO1	To understand the laboratory animals and their handling, To know the importance of solutions and laboratory appliances used in experimental pharmacology, Understand the anaesthetics used in laboratory animals,
		CO2	Application of bioassays Ach
		CO3	Applications of bioassays of histamine, to understand the demonstrate intraperitoneal and intramuscular routes of administration of drugs in animals and describe different anaesthetics used in laboratory animals
25PY6302T	Pharmaceutical Analysis	CO1	To understand the importance of various documentation practices followed in pharmaceutical industry
		CO2	To understand the knowledge about assay of pharmaceutical substance and product
		CO3	To develop basic practical skills using instrumental techniques
		CO4	To inculcate theoretical knowledge on various instrumental techniques adopted for analysis of pharmaceuticals
		CO5	To understand various methodologies for assay of drugs and pharmaceuticals with the skills and knowledge gained
		CO6	To understand and gain knowledge on trouble shooting in adopting various methodologies using instrumental techniques
25PY6302P	Pharmaceutical Analysis	CO1	Apply chromatography and spectroscopy techniques for analysis of unknown compounds
		CO2	Apply experiments of electro titrimetric methods and absorption spectroscopy for analysis of drugs
		CO3	Apply various analytical techniques and determination of concentrations by flame photometry
25PY6303T	Pharmacotherapeutics-II	CO1	To understand basic guidelines of antibiotics, surgical prophylaxis and respiratory tract infectious diseases.
		CO2	To understand the etiopathogenesis and pharmacotherapy of infectious diseases
		CO3	To understand the etiopathogenesis and pharmacotherapy of musculoskeletal diseases
		CO4	To understand the etiopathogenesis and pharmacotherapy of Renal system

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		CO5	To understand the etiopathogenesis and pharmacotherapy of Oncology
		CO6	To understand the etiopathogenesis and pharmacotherapy of Dermatology
25PY6303P	Pharmacotherapeutics-II	CO1	To analyse Case studies on Infectious diseases, Respiratory diseases, Reproductive diseases.
		CO2	To analyse Case studies on Musculoskeletal diseases and renal diseases
		CO3	Analyse Case studies on cancer
25PY6304T	Pharmaceutical Jurisprudence	CO1	To Understand the importance of code of pharmaceutical ethics
		CO2	To understand in detail about various sections of Drugs and Cosmetics Act
		CO3	To understand the various provisions of Pharmacy Act 1948
		CO4	To understand the various provisions of Medicinal and Toilet Preparation Act 1955
		CO5	To understand the various provisions of NDPS Act 1985
		CO6	Understand various Indian pharmaceutical Acts and Indian Laws pertaining to Drugs and magic remedies Act, DPCO, Prevention of Cruelty to animals, patents.
25PY6305T	Medicinal Chemistry	CO1	To provide comprehensive understanding of modern concept in drug design and their significance in developing novel therapeutics
		CO2	To know the metabolism, adverse effect, and therapeutic activity of anti-infective, anti fungal agents
		CO3	To understand the concept of microbial diseases and different anti-viral agents
		CO4	To explore the mechanisms involved in the cardiac diseases
		CO5	To understand the chemistry involved in anti-diabetic and thyroid drugs
		CO6	To discover the drugs involved in steroids and thyroid agents
25PY6305P	Medicinal Chemistry	CO1	Develop skills in the synthesis of medicinal compounds and analyze pharmaceutical drug properties using monograph methods
		CO2	Employ analytical techniques to quantify the concentration of a specific drug within an unknown solution, subsequently estimating its purity
		CO3	Understand experimentally the partitioning behavior and acid/base dissociation properties of a given compound
25PY6306T	Pharmaceutical Formulations	CO1	To understand the significance of formulation, preparation and evaluation of tablets
		CO2	To understand the significance of formulation, preparation and evaluation of capsules
		CO3	To understand the significance of formulation, preparation and evaluation of liquid orals

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		CO4	To understand the significance of formulation, preparation and evaluation of parenteral Preparations
		CO5	To understand the manufacturing methods of semisolid, and ophthalmic products
		CO6	To understand the concepts of Novel Local drug delivery system
25PY6306P	Pharmaceutical Formulations	CO1	Prepare formulations of tablets and capsules, coating of the tablets.
		CO2	To prepare various parenteral products, different dosage forms by performing quality control tests as per the batch formula
		CO3	Prepare and evaluate various semi-solid preparations, cosmetics such as lipstick, cold cream and shampoo
25PY6401T	Pharmacotherapeutics-III	CO1	To understand the Etiopathogenesis and pharmacotherapy of diseases associated with gastrointestinal system
		CO2	To understand the Etiopathogenesis and pharmacotherapy of diseases associated with gastrointestinal system: Liver
		CO3	To understand the Etiopathogenesis and pharmacotherapy of diseases associated with haematological system
		CO4	To understand the Etiopathogenesis and pharmacotherapy of diseases associated with nervous system
		CO5	To understand the Etiopathogenesis and pharmacotherapy of Psychiatry disorders
		CO6	To understand the concepts of diseases associated with pain and evidence-based medicine
25PY6401P	Pharmacotherapeutics-III	CO1	To analyse Case studies on gastrointestinal system.
		CO2	To analyse Case studies on the haematological system and nervous system.
		CO3	To analyse Case studies on Psychiatry disorders and evidence-based medicine.
25PY6402T	Hospital Pharmacy	CO1	To know the organizational structure and functions of a hospital
		CO2	To gain the knowledge on hospital drug policy
		CO3	To understand the hospital pharmacy services
		CO4	To know the manufacturing practices of various formulations in hospital set up
		CO5	To understand the professional development programs
		CO6	To understand the practice-based research methods
25PY6402P	Hospital Pharmacy	CO1	Analyse and report different drug interactions in a given case study
		CO2	Prepare various parenteral formulations and powders.
		CO3	Analyse the case and answer the related drug information queries posted by healthcare professionals and patients

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25PY6403T	Clinical Pharmacy	CO1	To understand the role of a clinical pharmacist in a pharmacy
		CO2	To understand the process of obtaining patients history and evaluation of drug therapy based on the history
		CO3	To gain the knowledge about various clinical laboratory tests to diagnose diseases.
		CO4	To understand the working of drug and poison information center.
		CO5	To understand the role of pharmacovigilance in ADR monitoring
		CO6	To gain the knowledge on communication skills for better interaction with patients
25PY6403P	Clinical Pharmacy	CO1	To analyse the case and answer the related drug information queries posted by healthcare professionals and patients.
		CO2	To analyse medication counselling of patients and laboratory investigations.
		CO3	To analyse conduct interview to elicit the patient past medication history and ADR analysis.
25PY6404T	Biostatistics & Research Methodology	CO1	To understand the concept of clinical study designs and case studies
		CO2	To understand the methods used to determine the sample size for a study.
		CO3	To understand the basic concepts of biostatistics
		CO4	To understand the basics of hypothesis testing
		CO5	To understand the statistical methods used in epidemiology
		CO6	To understand the computer applications in pharmacy
25PY6405T	Biopharmaceutics & Pharmacokinetics	CO1	To Understand the concepts of biopharmaceutics
		CO2	To Understand the process of metabolism and excretion
		CO3	To Understand the concept of pharmacokinetics with the use of one compartment open model.
		CO4	To Understand the concept of pharmacokinetics with the use of multi compartment analysis
		CO5	To understand the Non-linear and non-compartmental kinetics
		CO6	To Understand the concepts of bioavailability and bioequivalence
25PY6405P	Biopharmaceutics & Pharmacokinetics	CO1	Illustrate the in vitro drug release profile of different marketed products and Perform the solubility enhancement techniques for improvement of drug release of poorly water soluble drugs
		CO2	Demonstrate the bioavailability (absolute and relative) and bioequivalence from the given clinical data and Calculate the drug content in blood sample using Area Under Curve approach
		CO3	Interpret various pharmacokinetic parameters from the given clinical data and conduct planned experiments and prepare laboratory report in a standard format

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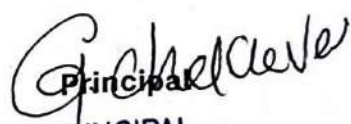
25PY6406T	Clinical Toxicology	CO1	Understand the mechanism of action of common poisons and antidotes
		CO2	Understand the concepts of Toxicokinetics
		CO3	To understand the etiology of acute poisoning and its management by various therapeutic agents
		CO4	To understand the etiology of chronic poisoning and its management by various therapeutic agents
		CO5	To understand the poisoning caused by plant and animal sources
		CO6	To understand the etiology and management of substance abuse
25PY6501T	Clinical Research	CO1	To understand the various approaches for a new drug discovery
		CO2	To understand the principles and phases in clinical trial of drug
		CO3	To understand the various guidelines associated with clinical trials
		CO4	To understand the various regulatory requirements in India and other countries to conduct clinical trials
		CO5	Recognise differing roles and obligations of the Investigator, Sponsor and Institutional Review Board
		CO6	To understand the various documents associated with clinical trials
25PY6502T	Pharmacoepidemiology and Pharmacoeconomics	CO1	Understand the scope, need, origin and evaluation of Pharmacoepidemiology
		CO2	To understand the importance of Measurement of outcomes in Pharmacoepidemiology
		CO3	Understand the method for measuring the outcome of Pharmacoepidemiology for a disease
		CO4	Understand the appropriate Pharmacoeconomic epidemiological method for a given drug and address the risks associated with Pharmacoeconomic epidemiological study
		CO5	Understand the basic principles, role and relevance of Pharmacoeconomics in the development of a new drug
		CO6	Identify and justify an appropriate evaluation method for Pharmacoeconomics study of a disease
25PY6503T	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	CO1	Discuss the pharmacokinetic principles to individualize drug therapy in patient care situations
		CO2	To understand the methods to calculate various dosage regimens
		CO3	To understand the principles of pharmacokinetics to analyse and predict drug interactions
		CO4	To understand the concepts of therapeutic drug monitoring
		CO5	To understand the dose adjustment in renal and hepatic disorders
		CO6	To understand the concepts of population pharmacokinetics
25PY650N4	Clerkship	CO1	Understand the role of Pharmacist in clinical pharmacy services
		CO2	Applying the skills of a clinical Pharmacist

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		CO3	Understand the available therapeutic options in the management of diseases
		CO4	Understand and prepare a pharmaceutical care plan for a given case
		CO5	Analyse the case and report medication errors
		CO6	Analyse the case and report drug interactions
25PY650E5	Project (Six months)	CO1	Apply & Address a problem related to Pharmacy practice in hospital, community service or clinical set up with a wider perspective and generality
		CO2	Apply & address and translate the problem into a statement of aim,
		CO3	Apply objectives, scope and plan for the project
		CO4	Apply & Preparation of report an information survey and take account of findings in executing project
		CO5	Apply relevant theories and techniques from the full range of courses studied using conceptual models and frameworks to enhance depth of understanding
		CO6	Apply & Select appropriate methodology for investigative work, taking into account the pros and cons of the alternatives available and develop solution proposals based on reasoned judgement
25PY660N1	Internship	CO1	To apply the acquired proficiency of knowledge on each case management and involve in patient care
		CO2	To apply the competency and skills expected for providing Clinical Pharmacy Services
		CO3	Make advantage of health care specialists and participate in conversations and research related to patient care


Academic Professor I/C


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