



Koneru Lakshmaiah Education Foundation

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

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KL College of Pharmacy

Program: Pharm. D

Academic Year :2021-2022

Course Code	Course Title	CO. No	Description of the course Outcome
21PY6101T	Human Anatomy and Physiology	CO1	Understanding 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 anatomy and functions of organs involved in circulatory and respiration
		CO3	Understanding the process of digestion, and Anatomical location, physiological functions of human nervous system
		CO4	Understanding the secretion and functions of endocrinal hormones and Physiology of excretory organs.
		CO5	Understanding the Anatomy and functions of special sense organs, and the process of reproduction
		CO6	Understanding the skeletal system of humans and sports physiology
21PY6101P	Human Anatomy and Physiology	CO1	Acquire the knowledge in identification of tissues, estimation of blood cells counts.
		CO2	Applying the knowledge to determine the ESR, bleeding time, clotting time of blood.
		CO3	Examine the skeletal system and blood pressure.
		CO4	Acquire the knowledge on cardiovascular, digestive system.
		CO5	Summarise the Anatomy and functions of special sense organs, and understand the process of reproduction
		CO6	Construct of muscle curve in different conditions.
21PY6102T	Pharmaceutics	CO1	To understand the different dosage forms, History of Pharmacy and pharmacopoeias
		CO2	To Understand the Pharmaceutical Calculations involved in formulation and preparation of powder dosage forms
		CO3	To understand the preparation of Monophasic liquid

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			dosage forms
		CO4	To understand the biphasic liquid dosage forms
		CO5	To understand the concepts of suppositories and Gellanicals
		CO6	To gain the knowledge on Surgical aids and incompatibilities
21PY6102P	Pharmaceutics	CO1	Understand the preparation of Syrups and elixirs
		CO2	Understand the preparation of Linctus and Solutions
		CO3	Understand the preparation of Liniments and Suspensions
		CO4	Understand the preparation of Emulsions
		CO5	Understand the preparation of powders and suppositories
		CO6	Understand the preparation of Incompatibilities, pastes and ear drops
21PY6103T	Medicinal Biochemistry	CO1	Understanding the catalytic activity of enzymes and importance of isoenzymes in diagnosis of disease
		CO2	Understanding the metabolic process biomolecules in health and illness (metabolic disorders)
		CO3	Understanding the concepts of the genetic organization of mammalian genome; protein synthesis, replication, mutation and repair mechanism
		CO4	Understanding the biochemical principles of organ function tests of kidney, liver and endocrine gland
		CO5	Understanding the principles, significance and methods of different biochemical tests
		CO6	Understanding the Immunochemical techniques for determination of hormone levels and protein levels in serum
21PY6103P	Medicinal Biochemistry	CO1	Applying the knowledge and to perform qualitative analysis of urine
		CO2	Applying the knowledge and to perform quantitative analysis of both urine and blood
		CO3	Acquiring knowledge to estimate the liver parameters
		CO4	Acquiring knowledge to estimate the Kidney parameters
		CO5	Applying the knowledge to estimate lipid profile parameters
		CO6	Acquiring knowledge to estimate enzyme activities and electrolytes
21PY6104T	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 and orientation

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		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
21PY6104P	Pharmaceutical Organic Chemistry	CO1	Applying the knowledge to Synthesize organic compounds by acetylation, benzylation and bromination methods.
		CO2	Applying the knowledge to Synthesize organic compounds by condensation, diazotisation and coupling and hydrolysis methods.
		CO3	Applying the knowledge to Synthesize organic compounds by nitration reactions, oxidation, reduction and miscellaneous reactions methods.
		CO4	Acquiring knowledge to Identify Phenols, amides, carbohydrates, amines in various compounds.
		CO5	Acquiring knowledge to Identify Carboxylic acids, aldehyde, ketones and alcohols in various compounds.
		CO6	Acquiring knowledge to Identify Carboxylic acids, aldehyde, ketones and alcohols Esters, hydrocarbons, anilides and nitro compounds
21PY61105T	Pharmaceutical Inorganic Chemistry	CO1	Understanding the methods to identify errors and the concepts of different titrations and the indicators used in the titrations.
		CO2	To understand the of principles of titrations
		CO3	To understand the of principles of titrations and limit tests
		CO4	Understand the monograph study of various inorganic compounds belonging to the class of gastrointestinal agents
		CO5	Understand the monograph study of various inorganic compounds belonging to the class of Electrolytes, trace materials, anti-microbials and pharmaceutical aids
		CO6	Understand the monograph study of various inorganic compounds belonging to the class of dental products, miscellaneous products and radio pharmaceuticals
21PY61105P	Pharmaceutical Inorganic Chemistry	CO1	Test for identification of impurities
		CO2	Analyze the assays of selected inorganic compounds
		CO3	Estimation of mixtures
		CO4	Test for identity of selected inorganic compounds
		CO5	Test for Purity of selected inorganic compounds
		CO6	Analyze the Preparation of selected organic compounds
21PY610B6T	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

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			different microorganisms
		CO5	Understanding the anatomy of frog
		CO6	To gain the knowledge on general organization of mammals
21PY610M6T	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
21PY610B6P	Remedial Biology	CO1	Generalize the Organisation of plants, plant tissues and plant kingdom
		CO2	Application of biological principles in study of plant kingdom
		CO3	Application of biological principles in studying morphology and plant physiology.
		CO4	Application of biological principles in study of taxonomy
		CO5	Application of biological principles in studying Microorganisms
		CO6	Application of biological principles in study of animals and other poisonous animals
21PY6201T	Pathophysiology	CO1	Understand the pathogenesis and morphology of reversible and irreversible cell injury and inflammation
		CO2	To understand mechanisms involved in autoimmune diseases and allograft rejection
		CO3	To understand the general biology of cancer, mechanism of shock and effects of radiation exposure
		CO4	To Understand the Biological effects of radiation, Environmental and nutritional diseases
		CO5	To understand the etiopathogenesis of selected diseases
		CO6	To understand the etiopathogenesis of infectious diseases
21PY6202T	Pharmaceutical Microbiology	CO1	To understand the basic concepts of microbiology
		CO2	To understand the key growth parameters required by micro-organisms
		CO3	To understand the principles of sterilization used in the pharmaceutical industry
		CO4	To understand the concepts of immunology and interpolate the same in disease diagnosis
		CO5	To understand the techniques for microbiological assays
		CO6	Understand the diagnostic tests and Infectious diseases
21PY6202P	Pharmaceutical Microbiology	CO1	Prepare various culture media for the growth of microorganisms
		CO2	Identify and isolate bacteria

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		CO3	Demonstrate aseptic procedures
		CO4	Carry out sterilization and sterility testing of pharmaceuticals
		CO5	Evaluate antimicrobials and determine the MIC of antimicrobial agents
		CO6	Conduct planned experiments and prepare laboratory report in a standard format
21PY6203T	Pharmacognosy and Phytopharmaceuticals	CO1	To know the history of Pharmacognosy and its evolution
		CO2	To understand the classification of crude drugs and discuss their primary and secondary metabolites
		CO3	To understand the morphological and microscopical characters of crude drugs crude drugs
		CO4	To understand the various parameters related to cultivation, collection, processing and storage of carbohydrates and related products
		CO5	To understand the production, evaluation, uses of oils and proteins
		CO6	To understand the plant fibres used in surgical dressings and adulteration of crude drugs
21PY6203P	Pharmacognosy and Phytopharmaceuticals	CO1	Understand the pharmacognosy experiments
		CO2	Identify cell wall constituents and cell inclusions
		CO3	Identify the crude drugs by its morphological characteristics and study the anatomical characters by preparing slides
		CO4	Identify the crude drugs by its morphological characteristics and study the anatomical characters by preparing slides
		CO5	Conducting chemical tests for selected oils.
		CO6	Conduct Chemical tests for natural compounds
21PY6204T	Pharmacology-I	CO1	To understand the pharmacokinetics and pharmacodynamics of a drug
		CO2	To understand the drugs acting on ANS
		CO3	To understand the drugs acting on cardiovascular system
		CO4	To understand the drugs acting on CNS
		CO5	To understand the drugs acting on Respiratory tract
		CO6	To understand the pharmacology of hormones and hormone antagonists
21PY6205T	Community Pharmacy	CO1	To gain the knowledge on community pharmacy
		CO2	To understand the prescriptions and inventory management
		CO3	To understand the pharmaceutical care and patient counselling
		CO4	To gain the knowledge on medication adherence and health screening services
		CO5	To understand the health education
		CO6	To understand the health screening services in community pharmacy

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21PY6206T	Pharmacotherapeutics-I	CO1	To understand the etiopathogenesis of CVS
		CO2	To understand the etiopathogenesis of Respiratory system
		CO3	To understand the etiopathogenesis of Endocrine system
		CO4	Understand the individualized therapeutic plans based on diagnosis
		CO5	To understand the drugs used in ophthalmology
		CO6	To understand the rationale for drug use
21PY6206P	Pharmacotherapeutics-I	CO1	To analyze and present the recorded cases in General medicine department
		CO2	To analyze and present the recorded cases in General medicine department
		CO3	To analyze and present the recorded cases in Pulmonology department
		CO4	To analyze and present the recorded cases in Cardiology department
		CO5	To analyze and present the recorded cases in Gastroenterology department
		CO6	To analyze and present the recorded cases in Ophthalmology department
21PY6301T	Pharmacology-II	CO1	To understand the pharmacology of drugs acting on blood and blood forming agents and Renal system
		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
21PY6301P	Pharmacology-II	CO1	To understand the laboratory animals and their handling
		CO2	To know the importance of solutions and laboratory appliances used in experimental pharmacology
		CO3	Understand the anesthetics used in laboratory animals
		CO4	Application of bioassays Ach
		CO5	Applications of bioassays of histamine
		CO6	To understand the demonstrate intraperitoneal and intramuscular routes of administration of drugs in animals and describe different anaesthetics used in laboratory animals
21PY6302T	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

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		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
21PY6302P	Pharmaceutical Analysis	CO1	To separate and identification of compounds by chromatography
		CO2	To separate and identification of compounds by UV
		CO3	Conduction of experiments using titrimetric methods
		CO4	Conduction of experiments using calorimetry and nepheloturbidometry
		CO5	Conduction of experiments using Flame Photometry and pH metre
		CO6	To demonstrate the various analytical techniques
21PY6303T	Pharmacotherapeutics-II	CO1	To understand the etiopathogenesis of selected infectious diseases
		CO2	To understand the etiopathogenesis of Musculoskeletal disorders
		CO3	To understand the etiopathogenesis of renal disorders
		CO4	To understand the basic principles of cancer therapy by various chemotherapeutic agents
		CO5	To develop clinical skills in the therapeutic management of cancer
		CO6	To understand the etiopathogenesis of dermal disorders
21PY6303P	Pharmacotherapeutics-II	CO1	To analyze and present the recorded cases in General medicine department
		CO2	To analyze and present the recorded cases in Orthopedics department
		CO3	To analyze and present the recorded cases in Dermatology department
		CO4	To analyze and present the recorded cases in Nephrology
		CO5	To analyze and present the recorded cases about infectious diseases
		CO6	To analyze and present the recorded cases about cancer therapeutic regimens
21PY6304T	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	To understand the various Indian pharmaceutical Acts and Laws

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21PY6305T	Medicinal Chemistry	CO1	To understand the different modern techniques of drug design.
		CO2	To know the metabolism, adverse effect and therapeutic activity of anti-infective agents
		CO3	To understand the concept of chemotherapy for cancer and microbial diseases and different anti-viral agents
		CO4	To know the metabolism, adverse effect and therapeutic activity of cardiovascular
		CO5	To understand the chemistry involved in anti-diabetic and thyroid drugs
		CO6	To understand the chemistry involved in steroids and some diagnostic agents
21PY6305P	Medicinal Chemistry	CO1	Synthesis compounds of medicinal interest
		CO2	Conduct monograph analysis of the pharmaceutical compounds
		CO3	Determine the amount of drug present in an unknown solution
		CO4	Estimate the purity of drugs by performing assays
		CO5	Determine partition coefficient and dissociation constant of a given compound
		CO6	Conduct planned experiments and prepare laboratory report in a standard format
21PY6306T	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
		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 controlled drug delivery system
21PY6306P	Pharmaceutical Formulations	CO1	Prepare formulations of tablets and capsules as per the batch formula
		CO2	To prepare various parenteral products as per the batch formula
		CO3	Evaluate different dosage forms by performing quality control tests
		CO4	To prepare and evaluate various semi-solid preparations
		CO5	Prepare and evaluate cosmetics such as lipstick, cold cream and shampoo
		CO6	To acquire the knowledge on coating of the tablets
21PY6401T	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 haematological system
		CO3	To understand the Etiopathogenesis and

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			pharmacotherapy of diseases associated with nervous system
		CO4	To understand the Etiopathogenesis and pharmacotherapy of Psychiatry disorders
		CO5	To understand the Etiopathogenesis and pharmacotherapy of diseases associated with pain
		CO6	To understand the concepts of evidence-based medicine
21PY6401P	Pharmacotherapeutics-III	CO1	To analyze and present the recorded cases in Gastroenterology department
		CO2	To analyze and present the recorded cases in Neurology department
		CO3	To analyze and present the recorded cases in Psychiatry department
		CO4	To analyze and present the recorded cases about Hematological disorders
		CO5	To analyze and present the recorded cases in General Medicine
		CO6	To analyse and present about prescribing patterns for any dosage regimen
21PY6402T	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
21PY6402P	Hospital Pharmacy	CO1	To analyze and report different drug interactions in a given case study
		CO2	To prepare various parenteral preparations
		CO3	To prepare various pharmaceutical powders
		CO4	To apply various methods to perform inventory analysis
		CO5	To analyse the case and answer the related drug information queries posted by healthcare professionals
		CO6	To analyse the case and answer the related drug information queries posted by patients
21PY6403T	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

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			better interaction with patients
21PY6403P	Clinical Pharmacy	CO1	To analyse the case and answer the related drug information queries posted by healthcare professionals
		CO2	To analyse the case and answer the related drug information queries posted by patients
		CO3	To understand and perform medication counselling for patients
		CO4	To analyse and correlate the condition of the patient by using laboratory investigations.
		CO5	To understand and conduct interview to elicit the patient past medication history
		CO6	To identify and report ADRs in the specified database
21PY6404T	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
21PY6405T	Biopharmaceutics & Pharmacokinetics	CO1	Understand the concepts of biopharmaceutics
		CO2	Understand the process of metabolism and excretion
		CO3	Understand the concept of pharmacokinetics with the use of one compartment open model.
		CO4	Understand the concept of pharmacokinetics with the use of multi compartment analysis
		CO5	To understand the Non-linear and non-compartmental kinetics
		CO6	Understand the concepts of bioavailability and bioequivalence
21PY6405P	Biopharmaceutics & Pharmacokinetics	CO1	Compare the in-vitro drug release profile of different marketed products
		CO2	Perform the solubility enhancement techniques for improvement of drug release of poorly water-soluble drugs
		CO3	Estimate the bioavailability (absolute and relative) and bioequivalence from the given clinical data
		CO4	Calculate the drug content in blood sample using Area Under Curve approach
		CO5	Calculate and interpret various pharmacokinetic parameters from the given clinical data
		CO6	Conduct planned experiments and prepare laboratory report in a standard format
21PY6406T	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

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		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
21PY6501T	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
21PY6502T	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	Recommend suitable method for measuring the outcome of Pharmacoepidemiology for a disease
		CO4	Suggest an appropriate Pharmacoepidemiological method for a given drug and address the risks associated with Pharmacoepidemiological 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
21PY6503T	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
21PY650N4	Clerkship	CO1	Understand the role of Pharmacist in clinical pharmacy services
		CO2	Demonstrate the skills of a clinical Pharmacist
		CO3	Understand the available therapeutic options in the management of diseases
		CO4	Prepare a pharmaceutical care plan for a given case
		CO5	Detect, Interpret and report medication errors
		CO6	Detect, Interpret and report drug interactions


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21PY650E5	Project (Six months)	CO1	Address a problem related to Pharmacy practice in hospital, community service or clinical set up with a wider perspective and generality
		CO2	address and translate the problem into a statement of aim,
		CO3	objectives, scope and plan for the project
		CO4	Preparation of report an information survey and take account of findings in executing project
		CO5	Evaluate, select and apply relevant theories and techniques from the full range of courses studied using conceptual models and frameworks to enhance depth of understanding
		CO6	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
21PY660N1	Internship	CO1	Understand the pathophysiology of disease states and the rationale for drug therapy
		CO2	Acquire the knowledge on available therapeutic options to provide patient care in co-operation with patients, prescribers, and other members of an interprofessional health care team
		CO3	Identify, manage and use resources of the health care system, in cooperation with patients,
		CO4	prescribers, other health care providers
		CO5	Analyse the therapeutic approaches to promote health improvement, wellness, and disease prevention
		CO6	Develop leadership qualities to function effectively as a member of the health care team


Academic Professor I/C


Principal
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