- 2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the Institution are Stated and displayed on website and attainment of Pos and Cos are evaluated
- PO 1 Pharmacy Knowledge: Provide high quality, evidence-based, patient-centeredcare in cooperation with patients, prescribers and members of the inter professionalhealth care team
- PO 2 Practical Skill: Demonstrate mastery and application of core knowledge and skills in relation to the evolving biomedical, clinical, epidemiological and social-behavioral sciences.
- PO 3 Professional Identity: Evaluate practice and care, and promote continuous improvement in one's own patient care and pharmacy services
- PO 4 Problem Solving: Demonstrate self-calibration skills and a commitment to the lifelong learning needed to provide high quality care
- PO 5 Communication: Effectively utilize information, informatics and technology to optimize learning and patient care
- PO 6 Planning Ability: Demonstrate effective interpersonal written and verbal skills, adapt to socioeconomic and cultural factors as well as situational applications
- PO 7 Leadership Skills & Team Work: Demonstrate exemplary professional, ethical and legal behaviors, complying with all federal, state and local laws and regulations related to pharmacy practice
- PO 8 Life Long Learning: Demonstrate awareness and responsiveness to the system of health care, effectively utilizing systems of care to provide cost-effective, optimal care
- **PO9 Pharmaceutical Ethics:** Honour personal values and apply ethical principles in professional and social context. Demonstrate behavior that recognizes cultural and personal variability in values, communication and life styles.
- **PO10 Pharmacist and Society:** Apply reasoning informed by the contextual knowledge to asses societal, health, safety and legal issues and the consequent responsibilities relevant to the profession.
- **PO11 Environment and Society:** Understand the impact of professional pharmacy solutions in societal and environmental context and demonstrate the knowledge of, and need for sustainable development.

PSO1: Able to apply the knowledge gained during the course of the program in drug discovery and development, their safety and efficacy and current technologies in Pharmaceutical industry

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PSO 2: Able to apply the knowledge of ethical and management principles required to work in a team as well as to lead a team.

PSO3: Able to do multidisciplinary jobs in the pharmaceutical industries and would be able to write effective project reports in multidisciplinary environment in the context of changing technologies.

PHARM D COURSE OUTCOMES FOR THE ACADEMIC YEAR 2022-23

		OURSE OUTCOMES FOR THE	COURSE OUTCOMES
S.NO	YEAR/SEM		CO1: They would have learnt the gross anatomy, histology and physiology of various organs of the human body.
1		HUMAN ANATOMY AND PHYSIOLOGY	CO2: They would identify the various tissues and organs associated with the different organ systems with help of charts and specimens.
			CO3: They would have studied the coordination in functioning of different organs of each system.
			C04: They would have understood the several physiological homeostatic mechanisms and their imbalances in human body.
2	I	PHARMACEUTICS	CO1: Upon completion of this program the student will know the formulation aspects of different dosage forms do different pharmaceutical calculation involved in formulation and appreciate the importance of good formulation for effectiveness.
			CO1: To understand the importance of metabolism of substrates.
3		MEDICINAL BIOCHEMISTRY	CO2: Will acquire chemistry and biological importance of biological macromolecules.
			CO3: To acquire knowledge in qualitative and quantitative estimation of the biological macromolecules.
		S PHARMACEUTO	C04: To know the interpretation of data emanating from a Clinical Test Lab.
		PHARMACEUTICAL	CO1: To be able to give systematic names to

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_	Gunnapany (*2)	ORGANIC CHEMISTRY	simple organic compounds and poly functional group.
			CO2: To achieve an understanding of the behavior of organic compounds and to establish a foundation for studies into natural and synthetic products of pharmaceutical interest.
			CO3: To acquire the knowledge and understanding of the basic experimental principles of pharmaceutical organic chemistry.
			C04: To draw the structures and synthesize simple pharmaceutically active organic compounds.
5		PHARMACEUTICAL INORGANIC CHEMISTRY	CO1: Well acquainted with the principles of limit tests
			CO2: Understand the principles and procedures of analysis of drugs and also regarding the application of inorganic pharmaceutical
			CO3: Knowledge about the sources of impurities and methods to determine the impurities in inorganic drugs and pharmaceuticals
			C04: Appreciate the importance of inorganic pharmaceuticals in preventing and curing the disease.
6		REMEDIAL MATHEMATICS	CO1: Apply mathematical concepts and principles to perform computations for Pharmaceutical Sciences.
			CO2: Create, use and analyze mathematical representations and mathematical relationships
			CO3: Communicate mathematical knowledge and understanding to help in the field of Clinical Pharmacy
			C04: Perform abstract mathematical reasoning



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S.NO	YEAR/SEM	COURSE NAME	COURSE OUTCOMES
			CO1: Describe the etiology of the selected disease states.
		PATHOPHYSIOLOGY	CO2: Describe the Pathogenesis of the selected diseased states
1.			CO3: Name the signs and symptoms of the diseases.
			CO4: Mention the complications of the diseases
			CO1: To study the apparatus used in
			microbiology & preparation, sterilization of glassware's and media
2.		MICROBIOLGY	CO2: To study different staining techniques, motility characters, enumeration of microorganism, method of isolation of pure culture and biochemical testing for identification of microorganism
			CO3:To perform culture sensitivity testing, sterility testing for powder & liquid and determination of MIC
	II		CO4: To perform microbiological assay of antibiotics, vitamins and determination of RWC, Widal, Malaria parasite
2		PHARMACOLOGY-I	CO1: Understand the pharmacological aspect of drugs falling under the above mentioned chapters.
3.		PHARMACOLOG1-1	CO2: Handle and carry out the animal experiments. Correlate and apply the knowledge therapeutically.
			CO3: Appreciate the importance of pharmacology subject as basis of therapeutics
			CO1: The Pathophysiology of selected disease states and the rationale for drug therapy. And therapeutic approach to management of these diseases
4.		PHARMACOTHERAPEUTICS-	CO2: Describe the Pathophysiology of selected disease states and explain the rationa for drug therapy
			CO3: The controversies in drug therapy; The
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		importance of preparation of individualised therapeutic plans based on diagnosis; Needs to identify the patient-specific parameters relevant in initiating drug therapy and monitoring therapy
		CO4: Summarise the therapeutic approach to management of these diseases including reference to the latest available evidence; discuss the controversies in drug therapy.
		CO1: To understand cell wall constituents and cell inclusion
5.		CO2: To understand morphology, microscopy and powder characteristics of crude drugs.
	PHARMACOGNOSY	CO3: To be able to determine the quality of lipids
		CO4: To be able to identify unorganized drugs by chemical methods
		CO1: To be able to understand the disease status.
6.	COMMUNITY PHARMACY	CO2: Able to dispense the medication.
		CO3: Able to understand the drug therapy
		CO4: Able to give patient counseling.

S.NO	YEAR/SEM	COURSE NAME	COURSE OUTCOMES
			CO1: To study various routes of drug administration, use of anesthetics in laboratory animals and their handling
1.	41	PHARMACOLOGY-II	CO2: To learn the composition of physiological salt solutions and basic instruments used in experimental pharmacology
	W. W. H. I. M.C.	CIENCE	PRINCIPAL INSTITUTE OF PHARMACEUTICAL SCIENCES Ounthapally (V), Abdullapurmet (M), R.R. Dist. Telangana.



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			CO3: To perform isolated experiments using various isolated preparation and the effect of different drugs on the concentration response curves
			CO4: To study the preclinical screening of various drugs
2.	III	PHARMACEUTICAL ANALYSIS	CO1: To understand validation of analytical instruments & methods as per ICH/ USP guidelines, concept of quality assurance and quality control techniques.
			CO2: To understand principles, instrumentation and application of various chromatographic techniques employed for the analysis of APIs and formulation.
			CO3: To understand principle, instrumentation and application of various Electrometric methods
			CO4: To Understand principle, instrumentation and application of UV-Vis, Atomic Absorption and Emission Spectroscopy, Flame Photometry, NMR, Massspectroscopy, Flourimetry, Thermal, X ray diffraction techniques.
			CO1: To understand therapeutic goals of the drugs used in different diseases
3.		PHARMACOTHERAPEUTICS- II	CO2: To check & analyze drug interactions, adverse drug reactions
			CO3: To understand dose and frequency of the medications
4.		PHARMACEUTICAL	CO1:To appreciate study Pharmaceutical Legislation, relevance and significance of jurisprudence to Pharmaceutical Sciences.
	,	JURISPRUDENCE	CO2: To know fundamentals of legislation to regulate import manufacture, distribution and sales of drug and cosmetics.
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		CO3: To know the various parameters in the Drug and Cosmetic Act and rules, Drug policy, Drug Price Control Order, Patent and Design act.
		CO4: To understand the concepts of Narcotic Drugs and Psychotropic substances, Pharmacy Act and Excise duties Act
		CO1: Understand modern concept of rational drug design.
5.	MEDICINAL CHEMISTRY	CO2: Learn development of the anti- infective drugs including structure activity relationship, mechanism of action, synthesis, chemical nomenclature, brand names and side effects of important compounds.
		CO3: Understand classification, mechanism of action, structure activity relationship, synthesis, nomenclature and side effects of the drugs acting as antineoplastic agents
		CO4: Understand classification, mechanism of action, structure activity relationship, synthesis, nomenclature and side effects of the drugs acting as Cardiovascular agents, Hypoglycemic agents, Diureties, Steroidal Hormones and Adrenocorticoids etc
6.	PHARMACEUTICAL	CO1: To understand the principle involved in formulation of various pharmaceutical dosage forms
	FORMULATIONS	CO2: To prepare various pharmaceutical formulation
		CO3: To perform evaluation of pharmaceutical dosage forms
	THE PHARMACEURAL PROPERTY OF THE PARMACEURAL PROPERTY OF THE PHARMACEURAL PROPERTY OF THE PARMACEURAL PROPERTY OF THE PARMACEURA PROPERTY OF THE PARMA	CO4: To understand and appreciate the concept of bioavailability and bioequivalence, their role in clinical
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S.NO	YEAR/SEM	COURSE NAME	COURSE OUTCOMES
3.110	TEMODIN		CO1: Initiate drug therapy and the anticipated therapeutic goals by therapeutic intervention
1.		PHARMACOTHERAPEUTICS -III	CO2: Know the effective use of non- pharmacological therapeutic interventions in the treatment of specific diseases, conditions and symptoms.
			CO3: Demonstrate the ability to effectively communicate and work collaboratively together with others in the small group setting
			CO4: Have moral reasoning, ethical judgement and professionalism
		IV HOSPITAL PHARMACY	CO1: To know various drug distribution methods
	IV		CO2: Know the professional practice management skills ion hospital pharmacies
2.			CO3: Provide unbiased drug information to the doctors
			CO4: Know The Manufacturing Practices Of Various Formulations In Hospital Set up.
			CO1: Monitor drug therapy of patient through medication chart review and clinical review
3.		CLINICAL PHARMACY	CO2: Obtain medication history interview and counsel the patients.
			CO3: Identify and resolve drug related problems
		THE DEPTHENCES OF THE PROPERTY	CO4: Detect, assess and monitor adverse drug reaction.
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	Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Kamoji r	CO1: Know the various statistical Methodology methods to solve different types of problems
4.	BIOSTATISTICS & RESEARCH	CO2: Operate various statistical software packages
	METHODOLOGY	CO3: Appreciate the importance of Computer in hospital and Community Pharmacy
		CO4: Appreciate the statistical technique in solving the pharmaccutical problems
		CO1: Broader understanding about the Pharmacokinetics concepts of biopharmaceutics pharmacokinetics.
	BIOPHARMACEUTICS &	CO2: Ability to calculate various pharmacokinetic parameters by using various mathematical models
5.	PHARMACOKINETICS	CO3: Ability to design a basic protocol for the conduct of BA/BE study and the interpretation of the BA/BE data
		CO4: Preparedness to use the concepts of pharmacokinetic principles in the clinical contexts.
6.	CLINICAL TOXICOLOGY	CO1: Developing general working knowledge of the principles and practice of clinical toxicology
0.		CO2: Demonstrating an understanding the health implications of toxic exposures and commonly involved chemicals for toxicity
		CO3: Demonstrating and applying and understanding of general toxicology principles and clinical management practice
	THARMAGEUTTAN SEE	CO4: Demonstrating and applying an understanding of the history, assessment, and therapy considerations associated with
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the management of a toxic exposure

S.NO	YEAR/SEM	COURSE NAME	COURSE OUTCOMES
S.NO	TEAR/SEM	CLINICAL RESEARCH	CO1: Know the new drug development process.
			CO2: Understand the regulatory and ethical requirements.
1.			CO3: Appreciate and conduct the clinical trials activities
			CO4: Know safety monitoring and reporting in clinical trials
		PHARMACOEPIDEMIOLOG Y& PHARMACOECONOMICS	CO1: Describe the methods used in Pharmacoepidemiology
2.	V		CO2: Demonstrate competency in the design, conduct and evaluation of Pharmacoepidemiology studies.
			CO3: Describe the methods used in Pharmacoeconomic analysis.
			CO4: Demonstrate competency in the design, conduct and evaluation of Pharmacoeconomic studies.
		CLINICAL PHARMACOKINETICS & PHARMACOTHERAPEUTIC DRUG MONITORING	CO1: Ability to design a dosage regimen of a drug based on its route of administration
3.			CO2: Ability to adjust the dosage regimen for patients with renal / hepatic impairments
			CO3: Ability to assess the drug interaction issues in the clinical settings



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