

(A UNIT OF CATECHIST SISTERS OF ST.ANN'S, HYD)

ATMAKURU (Village), Mangalagiri (M), Guntur Dist-522503, A.P, India.

Approved by AICTE & PCI New Delhi & Govt. of A.P, Affiliated to SBTET& A.N University, Guntur Accredited by NAAC & Approved under UGC 2f & 12b and Approved Institutional Innovation Council by AICTE

Ph: 08645-236255, 236722, 9912342142 E-mail: ncpa@csagp@yahoo.co.in Web site: www.ncpacsag.ac.in

Subject code	Name of Subject	Theory	Practicals
		I/VI YEAR	
1.1	Human Anatomy and Physiology	 By studying this course, students are able to correlate Human Anatomy & Physiology with other biomedical sciences. It provides basic knowledge about the structure and physiology of human body. The students would get an idea about the mechanism of action of drugs as they study the basic structure of Human body. By studying this course, students would be able to understand the coordinated working pattern of organs of human body. Through this course, students would be able to understand homeostatic mechanisms of Human body. 	 This course provides the students' knowledge about the functions of sense organs of human body. This course provides specimens which help to understand various parts of human body This course trains the students about usage of tools for the evaluation of parameters. This course allows the students to prepare chart models which helps the students to improve their organizational skills as well as time management techniques.



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		1. To understand the concepts related to dosage forms like	1.To understand the concepts related to dosage
		monophasic and biphasic liquid dosage forms 2. To get a basic idea about different dosage forms and its	forms like monophasic and biphasic liquid dosage forms
1.2	Pharmaceutics	route of administration	2.To get a basic idea about different dosage forms
1.2	Tharmaceares	3.To prepare and dispense the liquid dosage form for external	and its route of administration
		applications	3.To prepare and dispense the liquid dosage form
		4. To elucidate the compounding of suppositories	for external applications
			4.To elucidate the compounding of suppositories
		1.Basic study about cell and their constituents	1. Determine normal constituents of urine in
		2. Importance of enzymes and their inhibitors in diagnostic	diagnosing health condition
		and therapeutic applications	2. Abnormal constituents identification in urine
		3. Chemistry of biomolecules and bioenergetics	sample helps in diagnosing diseases or disorder
1.3	Medicinal	4. Metabolism of carbohydrates in physiological and	condition
1.5	Biochemistry	pathological conditions	3. Describes the changes in blood parameters in
		5. Lipid and amino acid, nucleic acid metabolic pathways	various metabolic disorders condition
			4. Gains the knowledge related to importance of ions in physiological process



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1.4	Pharmaceutical Organic Chemistry	 Provide the good knowledge about IUPAC/ common system of nomenclature of simple organic compounds belonging to the different class of organic compounds To understand about the important physical and chemical properties of organic compounds. To know about free radical/ nucleophillic/ electrophillic substitution, addition, elimination, oxidation and reduction reactions with mechanism, order of reactivity, stability of the compound. It explains about organic reactions with mechanisms Deals with free radical addition's reactions, Bayer strain theory, SN₁, SN₂ reactions. 	 The practical knowledge on how to prepare the organic compounds, purification and recrystalization To know about the preparation of organic compounds by using the named reactions Able to understand the systemic analysis of unknown organic compounds Knowledge about stereo models of methane, ethane, ethylene, acetylene and so on
1.5	Pharmaceutical Inorganic Chemistry	 The subject mainly deals with analytical chemistry topics such as volumetric analysis, acid-base titration, redox titration, non- aqueous, precipitation and complexometric titration. To know about inorganic compounds that are used as medicinal gases, acidifiers, antacids, cathartic. To understand the sources of impurities and limit tests 	Provide the practical knowledge about to carry out the limit tests for impurities Helps to carryout assays by titrimetric analysis Able to perform systematic analysis of unknown inorganic compound This practical also deals with the preparation of compounds



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		4. Able to deal with essential trace elements, antimicrobial,	
		pharmaceutical aids	
		5. To know about dental products, radio pharmaceuticals,	
		miscellaneous compounds.	
		1. To be able to understand the plant parts and their	1. Learn and understand animal tissue, study of
		Modification	different systems of frog.
		2. Know the classification and salient features of Five	2. Learn and understand Vegetative morphology
		kingdoms of life	and reproductive morphology
1.6	Remedial Mathematics	3. Familiarize with the plant physiology – absorption,	3. Learn about the transverse section characters of
1.0	/ Biology	transpiration, respiration, photosynthesis	Senna, Ephedra
		4. Taxonomical study of Leguminosae, Solanaceae,	4. To know the Permeant slide preparation
		Zingiberaceae, Liliaceae and Rubiaceae families.	
		5. To Know the morphological characters of plant parts	
		Modifications	
		II/VI YEAR	
		1. Know the pathogenesis and morphology of reversible and	
2.1	Pathophysiology	irreversible cell injury; enumerate various lipoproteins	
		and describe lipoprotein disorders	



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		 Illustrate the events involved in acute and chronic inflammation Recognize the biological significance of various hypersensitivity disorders Discuss the mechanisms involved in autoimmune diseases and allograft rejection Discuss the etiopathogenesis of selected diseases Describe the general biology of cancer, mechanism of shock and effects of radiation exposure. The students would have learnt about drugs used in treatment of CVS disorders, CNS disorders ANS disorders 	
2.2	Pharmaceutical Microbiology	 To Know about the historical development, Morphology, Classification, Bacterial growth cycle and factors influencing the bacterial growth. Studying of isolation, preservation techniques of microbes. To understand the types of Nutrient media for the cultivation of bacteria, fungi, Rickettsia & Virus. 	 Study of Equipment, Aseptic culture transfer techniques and preparation of sterile culture medias. Sterilization of Glass wares and Isolation of pure culture by streaking. Estimation of microbial enzymatic activity &cell counting techniques.



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		Identification and classification of Microorganisms by different staining techniques. To study about different sterilization techniques and sterility testing of pharmaceuticals. 3. To Know about immunology, types of immunity, Immunological reactions; Preparation of vaccines and their importance. 4. To acquire the knowledge about Microbiological assaying of antibiotics and the standardization of vaccines & Seras. 5. To study the different infectious diseases & imp; their diagnostic tests.	 Microscopic observation of cultures by different staining techniques and motility by Hanging drop method. Determination of potency of antibiotic by microbiological assays and sterility testing of pharmaceuticals, Diagnostic test of typhoid and Malaria &Evaluation of chemical disinfectant activity.
2.3	Pharmacognosy & Phytopharmaceuticals	 Discuss the definition, history, scope and development of pharmacognosy Describe the techniques in the cultivation, processing, storage and production of crude drugs of natural origin Describe fundamental aspects of plant tissue culture Describe different types of secondary metabolites, their 	To evaluate crude drugs authentication by morphological process Microscopic characterization of crude drugs by Transverse characterization and powder microscopic studies Determination of adulterants by chemical



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		general properties, classification, and their test for	evaluation methods
		identification	4. Analyzing the purity of phytochemicals by
		5. Describe the sources, chemical constituents and uses of	Qualitative and Quantitative characterization
		plants products containing plant fibers, hallucinogens	process
		teratogens, natural allergens, drug obtained from	
		primary metabolites (carbohydrates, lipids, proteins) and	
		marine drugs.	
		1. Describing about the different drugs used for treatment of	
		diseases.	
		2. Students would be able to apply the knowledge of	
		different diseases and disorders in treatment	
		3. The students would have learnt about drugs used in	
2.4	Pharmacology-I	treatment of CVS disorders, CNS disorders ANS	
2.4	1 Harmacology-1	disorders	
		4. They would got an idea about autocoids which is used for	
		different biological actions	
		5. They comprehended the principles of general	
		Pharmacology, adverse drug reactions, drug interactions	
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		principles and mechanism of drug action	
2.5	Community Pharmacy	 Know the roles and responsibilities of community pharmacist Outline the layout and infrastructure requirements for community pharmacy Recognize the need of inventory control and discuss the various methods Discuss the factors affecting medication adherence Perform general patient counseling Apply health screening services in community pharmacy 	



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rational drug use the knowledge on therapeutic approach in the management of selected diseases and controversies diagnosis 3.Perform patient counselling during hospital visits.	2.6 Pharmacotherapeutics-I 3. The students would have learnt about the general prescribing guidelines of pediatric, gediatric and 4. Conduct planned experiments and prepare laboratory report in a standard format	2.6	Pharmacotherapeutics-I	in the management of selected diseases and controversies in drug therapy.3. The students would have learnt about the general	3.Perform patient counselling during hospital visits.4. Conduct planned experiments and prepare
2.6 Pharmacotherapeutics-I 3. The students would have learnt about the general laboratory report in a standard format				4. To understand the discovery phase of new drug in	
2.6 Pharmacotherapeutics-I Pharmacotherapeutics-I 3. The students would have learnt about the general prescribing guidelines of pediatric, gediatric and pregnancy cases. 4. To understand the discovery phase of new drug in	4. To understand the discovery phase of new drug in			5. The students understand and recognize the role of	



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3.1	Pharmacology-II	 In continuation with the previous year, this subject would have continued describing about the different drugs used for treatment of diseases. Students will be able to apply the knowledge of different disorders in treatment of diseases The students would have learnt about drugs used in the treatment of cancer, drugs used in treatment of tuberculosis, leprosy, malaria They would get an idea about correlation of pharmacology with other bio medical sciences They comprehended the principles of toxicology 	 Describing about the Common laboratory techniques Students will able to apply the knowledge of study of different routes of drug administration in mice or rats The students would have learnt about effect of drugs on ciliary motility of frog esophagus and effect of drug on rabbit eye They would get an idea about effect of skeletal muscle relaxants using Rota rod apparatus
3.2	Pharmaceutical Analysis	 To Understand Principles and Instrumentation of Chromatography Techniques To Understand Principles and Instrumentation of Spectroscopy techniques Know Principles and Instrumentation of Electrochemical techniques To Understand the Concept of Quality Assurance 	Able to know the Determination of the Pharmaceutical Formulations by Spectroscopy Techniques Understand about the Qualitative analysis of Chemical Compunds by Chromatography Techniques Able to perform the assay of Chemical Compounds



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		System	by Electrochemical Methods
		5.To Understand the Concept of Validation and	4. To Determine the Quantitative Analysis by
		Calibration of analytical Instruments	Chromatography Techniques
		Identify drug interactions and rationalize the prescription	Explain the evolution of pharmacy as a profession in India and emergence of regulatory bodies
	Pharmacotherapeutics-	2. Discuss the therapeutic approach to management of selected diseases	2. Discuss the importance of code of pharmaceutical ethics
2.2		3. Prepare individualized therapeutic plans based on diagnosis	3. Recognize the provisions of various acts pertaining to drugs and cosmetics
3.3	II	4. Perform patient counseling5. Conduct planned experiments and prepare laboratory	4. Explain the latest amendments with respect to New Drug policy, DPCO and Patent and design act
		report in a standard format	5. Discuss the concepts of price fixation of pharmaceutical products
			6. Outline the concepts of Narcotic and Psychotropic
			Substances Act, Pharmacy Act and Excise duties Act
3.4	Pharmaceutical	1.Understand the Pharmacy acts	
3.4	Jurisprudence	2. Able to explain the different schedules	



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		3. Know the pharmacy educational standards	
		4. Know the rules and ethics of pharmacy profession	
		5.To regulate and import various drugs	
		1. To understand the designing of drugs by using SAR,	1. It helps to carry out the procedure involved in the
3.5		QSAR, Combinatorial chemistry and modern	synthesis of medical compounds
		techniques	2. It helps to carry out the assays of medicinal
	Medicinal Chemistry	2. To know the synthesis of different class of drugs like	compounds
		Antiviral, Antibiotics, etc.,	3. It gives the detailed information about the
		3. To know the classification, MOA, and uses of entire	monographs of medicinal compounds
		drug profile	4. It gives the information about the determination of
		4. To apply the knowledge of drugs to treat the disease	physicochemical properties of drug molecules
		5. To have the knowledge to council the patients in	
		administration of drugs and their safety profile	
		1. Formulation of tablet, excipient, granulation, Coating	1. Manufacturing of tablet by wet granulation and direct
		and quality control	compression technique.
2.6	Pharmaceutical	2. Hard and soft gelatin filling, quality control,	2. Manufacturing of injectables such as ascorbic acid,
3.6	Formulations	production.	calcium gluconate, sodium chloride.
		3. Formulation and evaluation of suspensions,	3. Evaluation of dosage form such as tablet, capsule,
		emulsions and solutions, Stability and their container.	injection etc.



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		4. Parenteral manufacturing, quality control.sterilization of large and small volume parenteral.5. Semisolid preparation, bases, Jellies, suppositories, their packaging and novel drug delivery system.	4. Manufacturing of semisolid such as ointment, gel and their evaluation, cosmetic preparation
		IV/VI YEAR	
4.1	Pharmacotherapeutics- III	 Explain the etiopathogenesis of selected gastrointestinal, haematological, neurological and psychiatric diseases Discuss the principles of evidence-based therapy and pain management Identify the patient specific parameters relevant in initiating and monitoring drug therapy and adverse effects Discuss the therapeutic approach in the management of selected diseases and controversies in drug therapy Prepare individualized therapeutic plans based on diagnosis 	 Identify drug interactions and rationalize the prescription Discuss the therapeutic approach to management of selected diseases Prepare individualized therapeutic plans based on diagnosis Conduct patient counseling Conduct planned experiments and prepare laboratory report in a standard format



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		6. Recognize the role of pharmacist in essential and rational drug use	
4.2	Hospital Pharmacy	 Obtain the knowledge on the professional practice management skills in hospital pharmacies Explain the importance of various drug distribution methods in hospital pharmacy. Discuss the manufacturing practices of various formulations in hospital set up. Explain the students to Provide unbiased drug information to the doctors. Make the students to learn about practice-based research methods and the stores management and inventory control 	 Analyze prescriptions for drug interactions To Formulate and prepare parenteral formulations and powders Perform inventory analysis. Ask the students to Answer the drug information queries through literature search.
4.3	Clinical Pharmacy	 Monitor drug therapy of patient through medication chart review and clinical review; Obtain medication history interview and counsel the patients; Identify and resolve drug related problems; and 	



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		detect, assess and monitor adverse drug reaction; 4. Interpret selected laboratory results (as monitoring parameters in therapeutics) of specific disease states; 5. Retrieve, analyze, interpret and formulate drug or medicine information.	
4.4	Biostatistics & Research Methodology	Develop the ability to apply the methods while working on a research project work Describe the appropriate statistical methods required for a particular research design 3.To learn about clinical study designs 4. Usage of computer applications in community pharmacy and hospital pharmacy Students can gain the knowledge regarding Trial balance and maintenance of ledger accounts for their startups	



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		1. Understand the basic concepts in Biopharmaceutics	1. Compute various Pharmacokinetic parameters.
		and pharmacokinetics	2. Critically evaluate biopharmaceutical studies
		2.Equate different processes occurring in the body	involving drug product equivalency
		after the drug administration.	3. Use plasma data and derive the pharmacokinetic
		3. Use plasma data and derive the pharmacokinetic	parameters to describe the process of drug absorption,
		parameters to describe the process of drug	distribution, metabolism and elimination.
4.5	Biopharmaceutics &	absorption, distribution, metabolism and elimination.	4. Design and evaluate dosage regimens of the drugs
4.3	Pharmacokinetics	4. Design the Bioavailability and Bio- equivalence	using pharmacokinetic and biopharmaceutical
		study of new drugs dosage forms and its use in	parameters
		Clinical research.	
		5. To impart knowledge and skills necessary for dose	
		calculations, dose adjustments and to apply	
		Biopharmaceutics theories in practical problem	
		solving.	
		1. Understand the general principles involved in the	
4.6		management of poisoning.	
	Clinical Toxicology	2. Understand the usage of Antidotes and their clinical	
		applications.	
		3. Appreciate the principles of Toxicokinetics.	



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		4. Understand the signs and symptoms of substance abuse and treatment of dependence5. Understand the clinical symptoms and management of chronic poisoning with the Heavy metals.				
	V/VI YEAR					
5.1	Clinical Research	 Know the new drug development process, and understand the regulatory and ethical requirements. Appreciate and conduct the clinical trials activities and Know safety monitoring and reporting in clinical trials Manage the trial coordination process, Know the new drug development process. Understand the regulatory and ethical requirements. Appreciate and conduct the clinical trials activities Know safety monitoring and reporting in clinical trials and manage the trial coordination process 				



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5.2	Pharmacoepidemiology and Pharmacoeconomics	Discuss the scope, need, origin and evaluation of Pharmacoepidemiology Explain the importance of Measurement of outcomes in Pharmacoepidemiology	
		3. Discuss the Recommend suitable method for measuring the outcome of Pharmacoepidemiology for a disease	-
		 4. Discuss the basic principles, role and relevance of Pharmacoeconomic in the development of a new drug 5. Identify and justify an appropriate evaluation method for Pharmacoeconomic study of a disease 	
5.3	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	1. Know about Nomograms and Tabulations in designing dosage regimen, Conversion from intravenous to oral dosing, calculation of dose and dosing interval 2. Understand about Drug interaction, metabolism, excreation, etc.,	
		3. Therapeutic drug monitoring, Individualization, TDM	



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		of drug used in disease state. 4. Drug adjustment in renal and hepatic failure, Measurement of GFR, creatinine clearance. 5. Bayesian Theory, Genetic polymorphism in Drug	
		metabolism, population pharmacokinetic data, Pharmacogenetics.	
5.4	Clerkship	Attending ward rounds on daily basis. Every student hall spend half a day in the morning hours attending ward rounds on daily basis as a part of clerkship. Students practice clinical pharmacy services under the supervision of Academic and Clinical Preceptors.	
5.5	Project Work	Six Month project work has to be carried out as Clinical Pharmacist in the area of Clinical Pharmacy in collaborated Hospital and also in multi specialty hospital.	
VI/VI YEAR			



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6.0	Internship	1. Explain the pathophysiology of disease states and the rationale for drug therapy 2. Discuss the available therapeutic options to provide patient care in co-operation with patients, prescribers, and other members of an Interprofessional health care team 3. Identify, manage and use resources of the health care system, in cooperation with patients, prescribers, other health care providers 4. Analyze the therapeutic approaches to promote health improvement, wellness, and disease prevention 5. Demonstrate skills in monitoring of the National Health programmes and schemes. 6. Develop leadership qualities to function effectively as a member of the health care team 7. Communicate effectively with patients and the community
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