#### **B.PHARM PROGRAM OUTCOME**

PO1: Adequate knowledge and scientific information regarding basic principles of Pharmaceutical chemistry, Pharmaceutics including cosmetics, Pharmacology/ and Pharmacognosy including Herbal drugs

PO2: Adequate knowledge of practical aspects of synthesis, formulation and analysis of various pharmaceutical and Herbal medicinal agents

PO3:Adequate knowledge of practical aspects of delivering a quality assured product as per pharmacopoeia, WHO and ISO standards

PO4:Adequate knowledge of practical aspects of pharmacological screening, standardization biological and *in-vivo* drug interactions.

PO5: Adequate knowledge of clinical studies for patient counseling leading to physical and social well being of patients.

PO6:Adequate knowledge of practical aspects of product detailing and marketing of Pharmaceutical products.

PO7: Able to synthesize purify, identify and analyze medicinal agents.

PO8:Able to formulate, store, dispense, analyze the prescriptions and / or manufacture the medicinal agents at commercial level.

PO9:Able to learn and apply the quality assurance principles including legal and ethical aspects involving drugs.

PO10:Able to extract, purify, identify and know the therapeutic value of herbal / crude / natural products.

PO11:Able to screen various medicinal agents using animal models for pharmacological activity.

PO12:Willing to apply the current knowledge of pharmacy in the best interest of patients and the community.

PO13:Maintain a high standard of professional ethics in discharging professional obligations.

PO14:Continuously upgrade professional information and be conversant with latest advances in Pharmacy field to serve the community better.

PO15:Willing to participate in continuing education programmes of PCI and AICTE to upgrade knowledge and professionals skills.

PO16:To help and to participate in the implementation of National Health programs.

# PROGRAM OUTCOME FOR PHARM D COURSE

**PO1.** Adequate knowledge and scientific information regarding basic principles of Pharmaceutical chemistry, Pharmaceutics including cosmetics, Pharmacology/ and Pharmacognosy including Herbal drugs

**PO2.** Adequate knowledge of practical aspects of delivering a quality assured product as per pharmacopoeia, WHO and ISO standards

**PO3.** Adequate knowledge of practical aspects of pharmacological screening, biological standardization and *in-vivo* drug interactions.

**PO4.**Adequate knowledge of clinical studies for patient counseling leading to physical and social wellbeing of patients.

**PO5.**Hospital pharmacy and community pharmacy management

**PO6.** Able to synthesize, purify, identify and analyze medicinal agents.

**PO7.** Able to formulate, store, dispense, analyze the prescriptions and / or manufacture the medicinal agents at commercial level.

**PO8.** Able to learn and apply the quality assurance principles including legal and ethical aspects involving drugs.

**PO9.**Able to screen various medicinal agents using animal models for pharmacological activity. **PO10.**Pharmacotherapeutic decisionmaking skills

**PO11.**Analytical thinking and interpretational skills

**PO12.** Communication skills

**PO13.**Willing to apply the current knowledge of pharmacy in the best interest of patients and the community.

**PO14.** Continuously upgrade professional information and be conversant with latest advances in Pharmacy field to serve the community better.

**PO15.**Willing to participate in continuing education programmes of PCI and AICTE to upgrade knowledge and professional skills.

PO16.To help and to participate in the implementation of National Health programs.

**PO17.** Maintain a high standard of professional ethics in discharging professional obligations.

## PROGRAM OUTCOME FOR PHARM D (POST BACCALAUREATE) COURSE

**PO1.** Adequate knowledge and scientific information regarding basic principles of Pharmaceutical chemistry, Pharmaceutics including cosmetics, Pharmacology/ and Pharmacognosy including Herbal drugs

**PO2.** Adequate knowledge of practical aspects of delivering a quality assured product as per pharmacopoeia, WHO and ISO standards

**PO3.** Adequate knowledge of practical aspects of pharmacological screening, biological standardization and *in-vivo* drug interactions.

**PO4.**Adequate knowledge of clinical studies for patient counseling leading to physical and social wellbeing of patients.

PO5.Hospital pharmacy and community pharmacy management

**PO6.** Able to synthesize, purify, identify and analyze medicinal agents.

**PO7.** Able to formulate, store, dispense, analyze the prescriptions and / or manufacture the medicinal agents at commercial level.

**PO8.** Able to learn and apply the quality assurance principles including legal and ethical aspects involving drugs.

**PO9.**Able to screen various medicinal agents using animal models for pharmacological activity. **PO10.**Pharmacotherapeutic decisionmaking skills

**PO11.**Analytical thinking and interpretational skills

**PO12** Communication skills

**PO12.** Communication skills

**PO13.**Willing to apply the current knowledge of pharmacy in the best interest of patients and the community.

**PO14.** Continuously upgrade professional information and be conversant with latest advances in Pharmacy field to serve the community better.

**PO15.**Willing to participate in continuing education programmes of PCI and AICTE to upgrade knowledge and professional skills.

PO16.To help and to participate in the implementation of National Health programs.

**PO17.** Maintain a high standard of professional ethics in discharging professional obligations.

### POs – M. Pharm

PO1:Demonstrate understanding of basic sciences relevant to specialty.

**PO2:** Acquire the detailed knowledge about the fundamentals and advances of the respective specialty.

**PO3:** Update knowledge by self-study and by attending courses, conferences and seminars relevant to specialty.

**PO4:**Undertake audit, use information and carryout research both basics and professional with the aim of publishing or presenting the work at various scientific gatherings.

**PO5:**Acquire adequate skills and competence in performing various tasks as required in the specialty.

**PO6:**Adopt ethical principles in all aspects of the professional practice.

**PO7:** Foster, professional honesty and integrity.

**PO8:**Discharge the duties irrespective of social status, caste, creed or religion of the customers/clients.

PO9: Develop oral and written communication skills

**PO10:**Provide leadership and get the best out of his or her team in a congenial working atmosphere.

**PO11:**Apply high moral and ethical standard while carrying out human and animal research.

### PROGRAMME OUTCOME FOR D. PHARM

**PO1:** Adequate knowledge and scientific information regarding basic principles of Pharmaceutical chemistry, Pharmaceutics including cosmetics, Pharmacology/ and Pharmacognosy including Herbal drugs

**PO2:** Adequate knowledge of practical aspects of synthesis, formulation and analysis of various pharmaceutical and Herbal medicinal agents

**PO3:** Adequate knowledge of practical aspects of delivering a quality assured product as per pharmacopoeia.

**PO4:** Adequate knowledge of practical aspects of pharmacological screening, standardization biological and *in-vitro* drug interactions.

**PO5:** Adequate knowledge of clinical studies for patient counseling leading to physical and social well being of patients.

**PO6:**Adequate knowledge of practical aspects of product detailing and marketing of Pharmaceutical products.

**PO7**: Able to synthesize purify, identify and analyze medicinal agents.

**PO8**:Able to formulate, store, dispense, analyze the prescriptions and / or manufacture the medicinal agents at commercial level.

**PO9**:Able to learn and apply the quality assurance principles including legal and ethical aspects involving drugs.

**PO10**: Able to extract, purify, identify and know the therapeutic value of herbal / crude / natural products.

**PO11**:Willing to apply the current knowledge of pharmacy in the best interest of patients and the community.

PO12: Maintain a high standard of professional ethics in discharging professional obligations.

**PO13:**Continuously upgrade professional information and be conversant with latest advances in Pharmacy field to serve the community better.

**PO14**:Willing to participate in continuing education programmes of PCI to upgrade knowledge and professionals skills.

PO15: To help and to participate in the implementation of National Health programs.

Program	CourseName	CO Code	COURSE OUTCOME
			know the classification and salient features of
B.PHARMACY	REMEDIAL BIOLOGY - T	CO1	five kingdoms of life
			understand the basic components of anatomy &
B.PHARMACY	REMEDIAL BIOLOGY - T	CO2	physiology of plant
			understand the basic components of anatomy &
			physiology animal with special reference to
B.PHARMACY	REMEDIAL BIOLOGY - T	CO3	human.
B.PHARMACY	REMEDIAL BIOLOGY - P	CO1	To study the Cell and its inclusions
			Understand the section cutting techniques and
B.PHARMACY	REMEDIAL BIOLOGY - P	CO2	permanent slide preparation
<b>B.PHARMACY</b>	REMEDIAL BIOLOGY - P	CO3	Understand stem, root, leaf and its modification
<b>B.PHARMACY</b>	REMEDIAL BIOLOGY - P	CO4	Identification of tissues and bones
			Understand methods of identification,
	PHARMACEUTICAL , MICROBIOLOGY		cultivation and preservation of various
B.PHARMACY	&BIOTECHNOLOGY - T	CO1	microorganisms
			Importance of Genetic engineering & cell
	PHARMACEUTICAL, MICROBIOLOGY		culture technology in microbiology &
B.PHARMACY	&BIOTECHNOLOGY - T	CO7	pharmaceutical industries.
	PHARMACEUTICAL , MICROBIOLOGY		to know about structure of various
B.PHARMACY	&BIOTECHNOLOGY - T	CO2	microorganisms.
	PHARMACEUTICAL , MICROBIOLOGY		Importance of sterilization in microbiology and
<b>B.PHARMACY</b>	&BIOTECHNOLOGY - T	CO3	pharmaceutical industry
	PHARMACEUTICAL , MICROBIOLOGY		Learn sterility testing & various evaluation
<b>B.PHARMACY</b>	&BIOTECHNOLOGY - T	CO4	methods of pharmaceutical products
	PHARMACEUTICAL , MICROBIOLOGY		to know about various vaccines, diagnostic tests
<b>B.PHARMACY</b>	&BIOTECHNOLOGY - T	CO5	and diseases.
	PHARMACEUTICAL , MICROBIOLOGY		Microbiological standardization of
<b>B.PHARMACY</b>	&BIOTECHNOLOGY - T	CO6	Pharmaceuticals
	PHARMACEUTICAL , MICROBIOLOGY		Preparation & sterilization of different types of
<b>B.PHARMACY</b>	&BIOTECHNOLOGY - P	CO1	media
	PHARMACEUTICAL , MICROBIOLOGY		Identification, Isolation & counting methods of
<b>B.PHARMACY</b>	&BIOTECHNOLOGY - P	CO2	microorganisms
	PHARMACEUTICAL , MICROBIOLOGY		
<b>B.PHARMACY</b>	&BIOTECHNOLOGY - P	CO3	Motility testing of microorganisms
	PHARMACEUTICAL , MICROBIOLOGY		
<b>B.PHARMACY</b>	&BIOTECHNOLOGY - P	CO4	Microbiological assay of antibiotics
	PHARMACEUTICAL ,MICROBIOLOGY		
<b>B.PHARMACY</b>	&BIOTECHNOLOGY - P	CO5	Sterility testing by various methods
	PHARMACEUTICAL ,MICROBIOLOGY		Estimation of RNA & DNA by spectroscopic
<b>B.PHARMACY</b>	&BIOTECHNOLOGY - P	CO6	method
			to know about chemical nature & applications
			of primary and secondary metabolites of the
<b>B.PHARMACY</b>	PHARMACOGNOSY AND PHYTOCHEMISTRY - T	CO2	plant.
DITIANNACI		02	Learn about diagnostic characters and various
<b>B.PHARMACY</b>	PHARMACOGNOSY AND PHYTOCHEMISTRY - T	CO3	evaluation methods of crude drugs.
B.PHARMACY		C03	Understand the basic metabolic pathways.
DIFINATIVIALI	PHARMACOGNOSY AND PHYTOCHEMISTRY - T	01	
		CO.4	to carryout isolation and purification of
<b>B.PHARMACY</b>	PHARMACOGNOSY AND PHYTOCHEMISTRY - T	CO4	phytoconstituents.
		005	to know about Natural allergens,
B.PHARMACY	PHARMACOGNOSY AND PHYTOCHEMISTRY - T	CO5	photosensitizing agents & Marine drugs.
B.PHARMACY	PHARMACOGNOSY AND PHYTOCHEMISTRY - P	CO 1	POWDER MICROSCOPY OF CRUDE DRUGS
			QUALITATIVE AND GENERAL SPECIFIC
B.PHARMACY	PHARMACOGNOSY AND PHYTOCHEMISTRY - P	CO 2	CHEMICAL TESTS FOR ALKALOIDS
B.PHARMACY	PHARMACOGNOSY AND PHYTOCHEMISTRY - P	CO 3	QUANTITATIVE MICROSCOPY
B.PHARMACY	PHARMACOGNOSY AND PHYTOCHEMISTRY - P	CO 4	QUALITITATIVE AND GENERAL SPECIFIC

			CHEMICAL TESTS FOR GLYCOSIDES
<b>B.PHARMACY</b>	PHARMACOGNOSY AND PHYTOCHEMISTRY - P	CO 5	DETERMINATION OF PROXIMATE VALUES
			QUALITITATIVE AND GENERAL SPECIFIC
<b>B.PHARMACY</b>	PHARMACOGNOSY AND PHYTOCHEMISTRY - P	CO 6	CHEMICAL TESTS FOR TANNINS
			DETERMINATION OF TOTAL POLYPHENOLIC
<b>B.PHARMACY</b>	PHARMACOGNOSY AND PHYTOCHEMISTRY - P	CO 7	CONTENT BY FOLIN-CU METHOD
<b>B.PHARMACY</b>	PHARMACOGNOSY AND PHYTOCHEMISTRY - P	CO 8	DEMONSTRATION EXPERIMENTS
			understand the status & scope of Herbal
<b>B.PHARMACY</b>	INDUSTRIAL PHARMACOGNOSY - T	CO 1	treatments
			to Know about Plant biotechnology & Enzyme
<b>B.PHARMACY</b>	INDUSTRIAL PHARMACOGNOSY - T	CO 2	biotechnology
			know the Quality control & Standardization of
<b>B.PHARMACY</b>	INDUSTRIAL PHARMACOGNOSY - T	CO 3	herbal drugs
			know the herbal cosmetics, natural sweeteners,
<b>B.PHARMACY</b>	INDUSTRIAL PHARMACOGNOSY - T	CO 4	nutraceuticals
<b>B.PHARMACY</b>	INDUSTRIAL PHARMACOGNOSY - T	CO 5	appreciate patenting of herbal drugs.
B.PHARMACY	INDUSTRIAL PHARMACOGNOSY - P	CO 1	Morphology of crude drugs
B.PHARMACY	INDUSTRIAL PHARMACOGNOSY - P	CO 2	Isolation of crude drugs
B.PHARMACY	INDUSTRIAL PHARMACOGNOSY - P	CO 3	Estimation of crude drugs
B.PHARMACY	INDUSTRIAL PHARMACOGNOSY - P	CO 4	Immobilazation of enzymes
B.PHARMACY	INDUSTRIAL PHARMACOGNOSY - P	CO 5	HPLC & HPTLC PROFILES OF CRUDE DRUGS
B.PHARMACY	INDUSTRIAL PHARMACOGNOSY - P	CO 6	DETERMINATION OF SWELLING INDEX
			DETERMINATION OF MICROBIAL
<b>B.PHARMACY</b>	INDUSTRIAL PHARMACOGNOSY - P	CO 7	CONTAMINATION
B.PHARMACY	INDUSTRIAL PHARMACOGNOSY - P	CO 8	INITIATION OF CALLUS CULTURE
	PHARMACOGNOSY&PHYTOPHARMACEUTICALS -		Understand the basic principles of cultivation,
PHARM.D	Т	CO 1	collection and storage of crude drugs
	PHARMACOGNOSY&PHYTOPHARMACEUTICALS -		Know the source, active constituents and uses
PHARM.D	Т	CO 2	of crude drugs
	PHARMACOGNOSY&PHYTOPHARMACEUTICALS -		know the evaluation techniques for the herbal
PHARM.D	Т	CO 3	drugs .
	PHARMACOGNOSY&PHYTOPHARMACEUTICALS -		
PHARM.D	Р	CO 1	Know the morphology of crude drugs
	PHARMACOGNOSY&PHYTOPHARMACEUTICALS -		
PHARM.D	Р	CO 2	know the microscopy of crude drugs
	PHARMACOGNOSY&PHYTOPHARMACEUTICALS -		
PHARM.D	Р	CO 3	Identification of Unknown sample
	PHARMACOGNOSY&PHYTOPHARMACEUTICALS -		Determination of acid value, iodine value
PHARM.D	Р	CO 4	saponification value & ester value
PHARM.D	<b>BIOSTATICS AND RESEARCH METHODOLOGY -T</b>	CO 1	Know the various statistical methods.
PHARM.D	<b>BIOSTATICS AND RESEARCH METHODOLOGY -T</b>	CO 2	To know about Research methodology
PHARM.D	<b>BIOSTATICS AND RESEARCH METHODOLOGY -T</b>	CO 3	Operate various statistical softwares
			appreciate the importance of Computer in
PHARM.D	BIOSTATICS AND RESEARCH METHODOLOGY -T	CO 4	hospital and Community Pharmacy
			appreciate the statistical technique in solving
PHARM.D	BIOSTATICS AND RESEARCH METHODOLOGY -T	CO 5	the pharmaceutical problems
			Understand the principles of volumetric and
<b>B.PHARMACY</b>	PHARMACEUTICAL ANALYSIS-I - T	CO1	electro chemical analysis
			Carryout various volumetric and
B.PHARMACY	PHARMACEUTICAL ANALYSIS-I - T	CO2	electrochemical titrations
B.PHARMACY	PHARMACEUTICAL ANALYSIS-I - T	CO3	Develop analytical skills
			Know the preparation and standardization of
B.PHARMACY	PHARMACEUTICAL ANALYSIS-I - P	CO1	various compounds
<b>B.PHARMACY</b>	PHARMACEUTICAL ANALYSIS-I - P	CO2	Know to perform the assay of the compounds
			Know the determination of Normality by
<b>B.PHARMACY</b>	PHARMACEUTICAL ANALYSIS-I - P	CO3	electro-analytical methods
	APPLIED BIOCHEMISTRY - T	CO1	Understand the catalytic role of enzymes,

			importance of enzyme inhibitors in design of
			new drugs, therapeutic and diagnostic
			applications of enzymes.
			Understand the metabolism of nutrient
			molecules in physiological and pathological
<b>B.PHARMACY</b>	APPLIED BIOCHEMISTRY - T	CO2	conditions.
			Understand the genetic organization of
			mammalian genome and functions of DNA in
B.PHARMACY	APPLIED BIOCHEMISTRY - T	CO3	the synthesis of RNAs and proteins.
<b>B.PHARMACY</b>	APPLIED BIOCHEMISTRY - P	CO1	Know the Qualitative analysis of carbohydrates
<b>B.PHARMACY</b>	APPLIED BIOCHEMISTRY - P	CO2	Know the identification tests for Proteins
			Know to perform the qualitative analysis of
<b>B.PHARMACY</b>	APPLIED BIOCHEMISTRY - P	CO3	urine for abnormal constituents
			Know to perform the qualitative analysis of
<b>B.PHARMACY</b>	APPLIED BIOCHEMISTRY - P	CO4	blood for abnormal constituents
			Know to perform the determination of Salivary
<b>B.PHARMACY</b>	APPLIED BIOCHEMISTRY - P	CO5	amylase activity
			Write the structure, name and the type of
<b>B.PHARMACY</b>	PHARMACEUTICAL ORGANIC CHEMISTRY-II - T	CO1	isomerism of the organic compound
			Write the reaction, name the reaction and
<b>B.PHARMACY</b>	PHARMACEUTICAL ORGANIC CHEMISTRY-II - T	CO2	orientation of reactions
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B.PHARMACY	PHARMACEUTICAL ORGANIC CHEMISTRY-II - T	CO3	Account for reactivity/stability of compounds
B.PHARMACY	PHARMACEUTICAL ORGANIC CHEMISTRY-II - T	CO4	Prepare organic compounds
<b>B.PHARMACY</b>	PHARMACEUTICAL ORGANIC CHEMISTRY-II - P	CO2	Know the analysis of the oils and fats
			Understand the principle of quantitative
<b>B.PHARMACY</b>	PHARMACEUTICAL ORGANIC CHEMISTRY-II - P	CO1	determination of organic compounds
			Know the synthesis of organic compounds
B.PHARMACY	PHARMACEUTICAL ORGANIC CHEMISTRY-II - P	CO3	involving more than one step
			understand the chemistry of drugs with respect
<b>B.PHARMACY</b>	MEDICINAL CHEMISTRY-I - T	CO1	to their pharmacological activity
			understand the drug metabolic pathways,
<b>B.PHARMACY</b>	MEDICINAL CHEMISTRY-I - T	CO2	adverse effect and therapeutic value of drugs
			know the Structural Activity Relationship (SAR)
<b>B.PHARMACY</b>	MEDICINAL CHEMISTRY-I - T	CO3	of different class of drugs
<b>B.PHARMACY</b>	MEDICINAL CHEMISTRY-I - T	CO4	Write the chemical synthesis of some drugs.
B.PHARMACY	MEDICINAL CHEMISTRY-I - P	CO1	Know the preparation of drugs or intermediates
B.PHARMACY	MEDICINAL CHEMISTRY-I - P	CO2	Know to perform the assay of drugs
			Know the determination of Partition coefficient
<b>B.PHARMACY</b>	MEDICINAL CHEMISTRY-I - P	CO3	for any two drugs
Di HAMMACI			Understand the interaction of matter with
			electromagnetic radiations and its applications
<b>B.PHARMACY</b>	INSTRUMENTAL& BIOMEDICAL ANALYSIS - T	CO1	in drug analysis.
D.PRARIVIACT	INSTRUMENTAL& BIOMEDICAL ANALTSIS - 1	01	
		600	Understand the chromatographic separation
<b>B.PHARMACY</b>	INSTRUMENTAL& BIOMEDICAL ANALYSIS - T	CO2	and analysis of drugs.
			Perform quantitative & qualitative analysis of
<b>B.PHARMACY</b>	INSTRUMENTAL& BIOMEDICAL ANALYSIS - T	CO3	drugs using various analytical instruments.
			Know the chromatographic separation and
<b>B.PHARMACY</b>	INSTRUMENTAL& BIOMEDICAL ANALYSIS - P	CO1	analysis of drugs.
			Know to perform the quantitative & qualitative
			analysis of drugs using various analytical
<b>B.PHARMACY</b>	INSTRUMENTAL& BIOMEDICAL ANALYSIS - P	CO2	instruments.
			Know the determination of Normality by
<b>B.PHARMACY</b>	INSTRUMENTAL& BIOMEDICAL ANALYSIS - P	co 3	electro-analytical methods
			Understand the chemistry of drugs with respect
<b>B.PHARMACY</b>	MEDICINAL CHEMISTRY-II - T	CO1	to their pharmacological activity
			Understand the drug metabolic pathways,
<b>B.PHARMACY</b>	MEDICINAL CHEMISTRY-II - T	CO2	adverse effect and therapeutic value of drugs

			Know the Structural Activity Relationship of
<b>B.PHARMACY</b>	MEDICINAL CHEMISTRY-II - T	CO3	different class of drugs
<b>B.PHARMACY</b>	MEDICINAL CHEMISTRY-II - T	CO4	Study the chemical synthesis of selected drugs
			Know the preparation of drugs and
<b>B.PHARMACY</b>	MEDICINAL CHEMISTRY-II - P	CO1	intermediates
<b>B.PHARMACY</b>	MEDICINAL CHEMISTRY-II - P	CO2	Know to perform the assay of drugs
			Know the preparation of medicinally important
<b>B.PHARMACY</b>	MEDICINAL CHEMISTRY-II - P	CO3	compounds
			Know to draw the structures and reactions using
<b>B.PHARMACY</b>	MEDICINAL CHEMISTRY-II - P	CO4	Chem draw
			Know to determine the physicochemical
<b>B.PHARMACY</b>	MEDICINAL CHEMISTRY-II - P	CO5	properties
			Know the sources of impurities and methods to
			determine the impurities in inorganic drugs and
<b>B.PHARMACY</b>	PHARMACEUTICAL INORGANIC CHEMISTRY-I - T	CO1	pharmaceuticals.
			Understand the medicinal and pharmaceutical
<b>B.PHARMACY</b>	PHARMACEUTICAL INORGANIC CHEMISTRY-I - T	CO2	importance of inorganic compounds.
			Understand the principles and procedures of
			analysis of drugs and also regarding the
<b>B.PHARMACY</b>	PHARMACEUTICAL INORGANIC CHEMISTRY-I - P	CO1	application of inorganic pharmaceuticals
		001	Know the analysis of the inorganic
<b>B.PHARMACY</b>	PHARMACEUTICAL INORGANIC CHEMISTRY-I - P	CO2	pharmaceuticals their applications
Difficience		02	Appreciate the importance of inorganic
			pharmaceuticals in preventing and curing the
<b>B.PHARMACY</b>	PHARMACEUTICAL INORGANIC CHEMISTRY-I - P	CO3	disease.
DIFINANTACI		005	Know the chromatographic separation and
M.PHARMACY	Modern Pharmaceutical Analysis - P	CO1	analysis of drugs.
		001	know to perform the quantitative & qualitative
			analysis of drugs using various analytical
M.PHARMACY	Modern Pharmaceutical Analysis - P	CO2	instruments.
MIFTANMACT		02	The analysis of various drugs in single and
M.PHARMACY	Modern Pharmaceutical Analysis - T	CO1	combination dosage forms
M.PHARMACY	Modern Pharmaceutical Analysis - T	CO1	Theoretical and practical skills of the instrument
		02	. Understand the interaction of matter with
		CO1	electromagnetic radiations and its applications
PHARM.D	PHARMACEUTICAL ANALYSIS - T	CO1	in drug analysis.
		600	Understand the chromatographic separation
PHARM.D	PHARMACEUTICAL ANALYSIS - T	CO2	and analysis of drugs.
		600	Perform quantitative & qualitative analysis of
PHARM.D	PHARMACEUTICAL ANALYSIS - T	CO3	drugs using various analytical instruments.
			Know the chromatographic separation and
PHARM.D	PHARMACEUTICAL ANALYSIS - P	CO1	analysis of drugs
			Know to perform the quantitative & qualitative
			analysis of drugs using various analytical
PHARM.D	PHARMACEUTICAL ANALYSIS - P	CO2	instruments.
			Understand the drug metabolic pathways,
PHARM.D	MEDICINAL CHEMISTRY - T	CO2	adverse effect and therapeutic value of Drugs.
			Know the Structural Activity Relationship (SAR)
PHARM.D	MEDICINAL CHEMISTRY - T	CO3	of different class of drugs.
PHARM.D	MEDICINAL CHEMISTRY - T	CO4	Write the chemical synthesis of some drugs.
			Understand the chemistry of drugs with respect
PHARM.D	MEDICINAL CHEMISTRY - T	CO1	to their pharmacological activity.
PHARM.D	MEDICINAL CHEMISTRY - P	CO1	Know to perform the assays of important drugs
			Know the preparation of medicinally important
PHARM.D	MEDICINAL CHEMISTRY - P	CO2	compounds or intermediates
PHARM.D	MEDICINAL CHEMISTRY - P	CO3	Monograph analysis of important drugs.
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	1		dissociation constants and molar refractivity of
			compounds for QSAR analysis.
			Know the qualitative analysis of normal and
PHARM.D	Medicinal biochemistry - P	CO1	abnormal constituents of urine
			IUPAC/Common system of nomenclature of
			simple organic compounds belonging to
PHARM.D	PHARMACEUTICAL ORGANIC CHEMISTRY - T	CO1	different classes of organic compounds
			Some important physical properties of organic
PHARM.D	PHARMACEUTICAL ORGANIC CHEMISTRY - T	CO2	compounds
			Free radical/ nucleophyllic [alkyl/ acyl/ aryl]
			/electrophyllic substitution, free radical/
			nucleophyllic / electrophyllic addition,
			elimination, oxidation and reduction reactions
			with mechanism, orientation of the reaction,
PHARM.D	PHARMACEUTICAL ORGANIC CHEMISTRY - T	CO 3	order of reactivity, stability of compounds;
			Some named organic reactions with
PHARM.D	PHARMACEUTICAL ORGANIC CHEMISTRY - T	CO 5	mechanisms; and
			Methods of preparation, test for purity,
			principle involved in the assay, important
			medicinal uses of some important organic
PHARM.D	PHARMACEUTICAL ORGANIC CHEMISTRY - T	CO 6	compounds.
PHARM.D	PHARMACEUTICAL ORGANIC CHEMISTRY - P	CO 3	Know the use of stereo models.
			Know the various laboratory techniques of
PHARM.D	PHARMACEUTICAL ORGANIC CHEMISTRY - P	CO 1	synthesis
PHARM.D	PHARMACEUTICAL ORGANIC CHEMISTRY - P	CO 2	. Know the identification of organic compounds.
			Understand the principles and procedures of
			analysis of drugs and also regarding the
PHARM.D	PHARMACEUTICAL INORGANIC CHEMISTRY - T	CO1	application of inorganic pharmaceuticals
			Know the analysis of the inorganic
PHARM.D	PHARMACEUTICAL INORGANIC CHEMISTRY - T	CO2	pharmaceuticals their applications
			Appreciate the importance of inorganic
			pharmaceuticals in preventing and curing the
PHARM.D	PHARMACEUTICAL INORGANIC CHEMISTRY - T	CO3	disease.
PHARM.D	PHARMACEUTICAL INORGANIC CHEMISTRY - P	CO1	Know to perform the limit test
			Know to perform the assays of inorganic
PHARM.D	PHARMACEUTICAL INORGANIC CHEMISTRY - P	CO2	compounds
PHARM.D	PHARMACEUTICAL INORGANIC CHEMISTRY - P	CO3	Know the estimation of mixtures
PHARM.D	PHARMACEUTICAL INORGANIC CHEMISTRY - P	CO4	Know the methods of identification test
			Know the preparation of inorganic drugs and
PHARM.D	PHARMACEUTICAL INORGANIC CHEMISTRY - P	CO5	pharmaceuticals
			Know the chromatographic separation and
PHARM.D	PHARMACEUTICAL ANALYSIS - P	CO1	analysis of drugs.
			Know to perform the quantitative & qualitative
			analysis of drugs using various analytical
PHARM.D	PHARMACEUTICAL ANALYSIS - P	CO2	instruments.
PHARM.D	MEDICINAL CHEMISTRY - P	CO1	Know to perform the assays of important drugs.
		600	Know the preparation of medicinally important
PHARM.D	MEDICINAL CHEMISTRY - P	CO2	compounds or intermediates.
PHARM.D	MEDICINAL CHEMISTRY - P	CO3	Monograph analysis of important drugs.
			Know to Determine partition coefficients,
		CO.4	dissociation constants and molar refractivity of
PHARM.D	MEDICINAL CHEMISTRY - P	CO4	compounds for QSAR analysis.
			understand the catalytic activity of enzymes and
	Madicinal Dia Chamistry T	CO1	importance of isoenzymes in diagnosis of
PHARM.D	Medicinal Bio Chemistry - T	CO1	diseases
	Madicinal Dia Chamistry T	600	know the metabolic process of biomolecules in
PHARM.D	Medicinal Bio Chemistry - T	CO2	health and illness (metabolic disorders)

		I	understand the genetic organization of
			mammalian genome; protein synthesis;
PHARM.D	Medicinal Bio Chemistry - T	CO3	replication; mutation and repair mechanism
THANNI.D			know the biochemical principles of organ
			function tests of kidney, liver and endocrine
PHARM.D	Medicinal Bio Chemistry - T	CO4	gland
			do the qualitative analysis and determination of
PHARM.D	Medicinal Bio Chemistry - T	CO5	biomolecules in the body fluids
B.PHARMACY	PHYSICAL PHARMACEUTICS - T	11	Viva will help to discuss the subject
B.PHARMACY	PHYSICAL PHARMACEUTICS - T	12	Tests will help in evaluation of the students
			Attendance will help in better understanding of
<b>B.PHARMACY</b>	PHYSICAL PHARMACEUTICS - T	13	the concepts
			gain knowledge about rate of reactions and
<b>B.PHARMACY</b>	PHYSICAL PHARMACEUTICS - T	CO1	accelerated studies.
			Basic knowledge of distribution/partition of
<b>B.PHARMACY</b>	PHYSICAL PHARMACEUTICS - T	CO2	drugs between two phases
			Learn about diffusion and dissolution of drugs in
<b>B.PHARMACY</b>	PHYSICAL PHARMACEUTICS - T	CO3	the body
			Learn about flow properties of formulations and
<b>B.PHARMACY</b>	PHYSICAL PHARMACEUTICS - T	CO4	thixotropy.
			Know about the measurement of particle size
<b>B.PHARMACY</b>	PHYSICAL PHARMACEUTICS - T	CO5	analysis
<b>B.PHARMACY</b>	PHYSICAL PHARMACEUTICS - T	CO9	types of complexes and their analysis
<b>B.PHARMACY</b>	PHYSICAL PHARMACEUTICS - T	CO10	refer the record for expriments
			Learn about interfacial phenomenon and
B.PHARMACY	PHYSICAL PHARMACEUTICS - T	C07	adsorption isotherms
			Preparation, purification and properties of
B.PHARMACY	PHYSICAL PHARMACEUTICS - T	CO8	colloids
B.PHARMACY	PHYSICAL PHARMACEUTICS - T	CO6	Applications of new analytical techniques.
B.PHARMACY	PHYSICAL PHARMACEUTICS - P	CO10	refer the record for expriments
			gain knowledge about rate of reactions and
<b>B.PHARMACY</b>	PHYSICAL PHARMACEUTICS - P	CO1	accelerated studies.
			Basic knowledge of distribution/partition of
<b>B.PHARMACY</b>	PHYSICAL PHARMACEUTICS - P	CO2	drugs between two phases
		<b>CO3</b>	Learn about diffusion and dissolution of drugs in
B.PHARMACY	PHYSICAL PHARMACEUTICS - P	CO3	the body VIVA WIII HELP BETTER UNDERSTANDING THE
<b>B.PHARMACY</b>	PHYSICAL PHARMACEUTICS - P	CO11	CONCEPTS
B.PHARMACY	PHYSICAL PHARMACEUTICS - P	C011	Attendance will make better learning.
D.FHANWACI		012	CLass tests will help better presentation in
<b>B.PHARMACY</b>	PHYSICAL PHARMACEUTICS - P	CO13	sessionals.
			Learn about flow properties of formulations and
<b>B.PHARMACY</b>	PHYSICAL PHARMACEUTICS - P	CO4	thixotropy.
			Know about the measurement of particle size
<b>B.PHARMACY</b>	PHYSICAL PHARMACEUTICS - P	CO5	analysis
<b>B.PHARMACY</b>	PHYSICAL PHARMACEUTICS - P	CO6	Applications of new analytical techniques.
			Learn about interfacial phenomenon and
<b>B.PHARMACY</b>	PHYSICAL PHARMACEUTICS - P	CO7	adsorption isotherms
			Preparation, purification and properties of
<b>B.PHARMACY</b>	PHYSICAL PHARMACEUTICS - P	CO8	colloids
<b>B.PHARMACY</b>	PHYSICAL PHARMACEUTICS - P	CO9	types of complexes and their analysis
<b>B.PHARMACY</b>	PHARMACEUTICS - T	CO1	Know the history of profession of pharmacy
			Understand the basics of different dosage
			forms, pharmaceutical incompabilities and
<b>B.PHARMACY</b>	PHARMACEUTICS - T	CO2	pharmaceutical calculations.
			Understand the professional way of handling
B.PHARMACY	PHARMACEUTICS - T	CO3	the prescription

			Preparation of various conventional dosage
<b>B.PHARMACY</b>	PHARMACEUTICS - T	CO4	form
			Understand the basics of different dosage
			forms, pharmaceutical incompabilities and
B.PHARMACY	PHARMACEUTICS - P	C01	pharmaceutical calculations
			Preparation of various conventional dosage
B.PHARMACY	PHARMACEUTICS - P	CO2	form
			The Pharmaceutical legislations and their
B.PHARMACY	PHARMACEUTICAL JURISPRUDENCE - T	CO1	implications in the development and marketing
B.PHARMACY	PHARMACEUTICAL JURISPRUDENCE - T	CO2	Various Indian Pharmaceutical Act and laws
			The regulatory authorities and agencies
			governing the manufacture and sale of
<b>B.PHARMACY</b>	PHARMACEUTICAL JURISPRUDENCE - T	CO3	pharmaceuticals
			The code of ethics during the pharmaceutical
<b>B.PHARMACY</b>	PHARMACEUTICAL JURISPRUDENCE - T	CO4	practice
			Able to understand the basic concept of unit
<b>B.PHARMACY</b>	PHARMACEUTICAL ENGINEERING - T	CO1	processes and dimensions.
		1	To know the theories of different unit
<b>B.PHARMACY</b>	PHARMACEUTICAL ENGINEERING - T	CO2	operations and their equipments involved
			To know about material handling systems,
			materials of construction and ion exchange
<b>B.PHARMACY</b>	PHARMACEUTICAL ENGINEERING - T	CO3	resins.
			To analyze the different pharmaceutical
<b>B.PHARMACY</b>	PHARMACEUTICAL ENGINEERING - P	CO4	materials
			To perform different unit operations and
<b>B.PHARMACY</b>	PHARMACEUTICAL ENGINEERING - P	CO5	understand their calculations.
B.PHARMACY	PHARMACEUTICAL MARKETING - T	C01	To understand the Pharmaceutical marketing
DIFINANTACI			To know Organization and govt. regulations on
<b>B.PHARMACY</b>	PHARMACEUTICAL MARKETING - T	CO2	
		02	marketing
			To learn Pharmaceutical product like new product development and market
<b>B.PHARMACY</b>	PHARMACEUTICAL MARKETING - T	<b>CO3</b>	Considerations
D.PRAKIVIAUY		CO3	
		CO4	To study price competitions, Non price
<b>B.PHARMACY</b>	PHARMACEUTICAL MARKETING - T	CO4	competitions
		605	To learn different ways of Promotion like
B.PHARMACY	PHARMACEUTICAL MARKETING - T	CO5	advertising, retailing etc.
B.PHARMACY	PHARMACEUTICAL MARKETING - T	CO6	To study about Wholesaler and retailer
B.PHARMACY	PHARMACEUTICAL MARKETING - T	C07	To learn the various functions Management
B.PHARMACY	PHARMACEUTICAL MARKETING - T	CO8	To study the health scenario on India
B.PHARMACY	PHARMACEUTICAL MARKETING - T	CO9	To study quality management.
			Adequate knowledge and application of basic
			principles of various preformulation studies.
			Adequate knowledge and scientific information
	PHARMACEUTICAL TECHNOLOGY AND		regarding development and evaluation of
<b>B.PHARMACY</b>	BIOPHARMACEUTICS - T	CO1	dosage forms such as tablets.
			Adequate knowledge and scientific information
	PHARMACEUTICAL TECHNOLOGY AND		regarding development and evaluation of
<b>B.PHARMACY</b>	BIOPHARMACEUTICS - T	CO2	dosage forms such as capsules.
			Adequate knowledge and scientific information
	PHARMACEUTICAL TECHNOLOGY AND		regarding development and evaluation of
<b>B.PHARMACY</b>	BIOPHARMACEUTICS - T	CO3	dosage forms such as parenteral.
-			Adequate knowledge and scientific information
	PHARMACEUTICAL TECHNOLOGY AND		regarding development and evaluation of
<b>B.PHARMACY</b>	BIOPHARMACEUTICS - T	CO4	dosage forms such as ophthalmics.
			Adequate knowledge and scientific information
	PHARMACEUTICAL TECHNOLOGY AND		regarding development and evaluation of
<b>B.PHARMACY</b>	BIOPHARMACEUTICS - T	CO5	dosage forms such liquid orals.
SHUANNACI	BIOLITANIMACEOTICS - I	005	assage torms such liquid orais.

			Adequate knowledge and scientific information
	PHARMACEUTICAL TECHNOLOGY AND		regarding development and evaluation of
<b>B.PHARMACY</b>	BIOPHARMACEUTICS - T	CO6	dosage forms such aerosols.
			Scientific information on formulation,
	PHARMACEUTICAL TECHNOLOGY AND		preparation of and evaluation of cosmetics
<b>B.PHARMACY</b>	BIOPHARMACEUTICS - T	C07	preparations.
	PHARMACEUTICAL TECHNOLOGY AND		Basics, theory and applications of
<b>B.PHARMACY</b>	BIOPHARMACEUTICS - T	CO8	biopharmaceutics and pharmacokinetics
			To know various statistical techniques to solve
<b>B.PHARMACY</b>	ADVANCED INDUSTRIAL PHARMACY - T	CO5	statistical problems
B.PHARMACY	ADVANCED INDUSTRIAL PHARMACY - T	CO4	To give basic knowledge of quality assurance
Diffiantiaci			To understand various approaches for
<b>B.PHARMACY</b>	ADVANCED INDUSTRIAL PHARMACY - T	CO3	development of advanced drug delivery system
DIFITANIMACT		203	Know the process of pilot plant and scale up of
<b>B.PHARMACY</b>	ADVANCED INDUSTRIAL PHARMACY - T	CO2	pharmaceutical dosage forms
D.FRANIVIACT	ADVANCED INDOSTRIAL PHARMACT - T	02	understand and appreciate the concept of
		601	
B.PHARMACY	ADVANCED INDUSTRIAL PHARMACY - T	CO1	bioavailability and bioequivalence
M.PHARMACY	Drug Delivery Systems	CO1	The various approaches for development of
(Pharmaceutics)	Drug Delivery Systems	CO1	novel drug delivery systems.
M.PHARMACY	Deven Dallinger Graterer		The criteria for selection of drugs and polymers
(Pharmaceutics)	Drug Delivery Systems	CO2	for the development of delivering system
M.PHARMACY			The formulation and evaluation of Novel drug
(Pharmaceutics)	Drug Delivery Systems	CO3	delivery systems.
			To understand Preformation studies – Drug
M.PHARMACY			Excipient interactions, Stability testing, theories
(Pharmaceutics)	Modern Pharmaceutics -T	CO1	of dispersion, Large and small volume parental
M.PHARMACY			To study Optimization techniques and their
(Pharmaceutics)	Modern Pharmaceutics -T	CO2	application in formulation.
			To learn Pharmaceutical Validation, like ICH &
			WHO guidelines for validation of equipment's,
M.PHARMACY			Validation of specific dosage form, Types of
(Pharmaceutics)	Modern Pharmaceutics -T	CO3	validation.
			To learn cGMP considerations and Industrial
			Management like Materials management,
M.PHARMACY			Inventory management and control, Production
(Pharmaceutics)	Modern Pharmaceutics -T	CO4	and planning control and TQM.
M.PHARMACY			To study physics of tablet compression, forces,
(Pharmaceutics)	Modern Pharmaceutics -T	CO5	solubility enhancement technique
			Study the parameters like Diffusion, Dissolution
M.PHARMACY			and Pharmacokinetic, Similarity factors – f2 and
(Pharmaceutics)	Modern Pharmaceutics -T	CO6	f1,
M.PHARMACY			The Concepts of innovator and generic drugs,
(Pharmaceutics)	PHARMACEUTICAL REGULATORY AFFAIR	CO1	drug development process
M.PHARMACY			The Regulatory guidance's and guidelines for
(Pharmaceutics)	PHARMACEUTICAL REGULATORY AFFAIR	CO2	filing and approval process
M.PHARMACY			Preparation of Dossiers and their submission to
(Pharmaceutics)	PHARMACEUTICAL REGULATORY AFFAIR	CO3	regulatory agencies in different Countries
M.PHARMACY			Post approval regulatory requirements for
(Pharmaceutics)	PHARMACEUTICAL REGULATORY AFFAIR	CO4	actives and drug products
M.PHARMACY			Submission of global documents in CTD/ eCTD
(Pharmaceutics)	PHARMACEUTICAL REGULATORY AFFAIR	CO5	formats
M.PHARMACY			Clinical trials requirements for approvals for
		CO6	
(Pharmaceutics)	PHARMACEUTICAL REGULATORY AFFAIR	00	conducting clinical trials
M.PHARMACY		CO7	Pharmacovigilence and process of monitoring in
(Pharmaceutics)	PHARMACEUTICAL REGULATORY AFFAIR	C07	clinical trials.
M.PHARMACY			To prepare and evaluate osmotically controlled
(Pharmaceutics)	Modern PHARMACEUTICS -PRACTICAL-I	CO3	DDS

M.PHARMACY			To learn to make and evaluate Floating DDS-
(Pharmaceutics)	Modern PHARMACEUTICS -PRACTICAL-I	CO4	hydro dynamically balanced DDS
M.PHARMACY			
(Pharmaceutics)	Modern PHARMACEUTICS -PRACTICAL-I	CO5	To prepare and evaluate Muco adhesive tablets.
M.PHARMACY			To formulate and evaluate trans dermal
(Pharmaceutics)	Modern PHARMACEUTICS -PRACTICAL-I	CO6	patches.
M.PHARMACY			
(Pharmaceutics)	Modern PHARMACEUTICS -PRACTICAL-I	CO7	To carry out preformulation studies of tablets
M.PHARMACY			To study the effect of compressional force on
(Pharmaceutics)	Modern PHARMACEUTICS -PRACTICAL-I	CO8	tablets disintegration time.
M.PHARMACY			To study Micromeritic properties of powders
(Pharmaceutics)	Modern PHARMACEUTICS -PRACTICAL-I	CO9	and granulation
M.PHARMACY			To study the effect of particle size and binders
(Pharmaceutics)	Modern PHARMACEUTICS -PRACTICAL-I	CO10	on dissolution of a tablet
M.PHARMACY			
(Pharmaceutics)	Modern PHARMACEUTICS -PRACTICAL-I	CO11	To determine the similarity factors.
M.PHARMACY			To study about the In-vitro dissolution of CR/ SR
(Pharmaceutics)	Modern PHARMACEUTICS -PRACTICAL-I	C01	marketed formulation
M.PHARMACY		603	To learn to prepare and evaluate SR matrix
(Pharmaceutics)	Modern PHARMACEUTICS -PRACTICAL-I	CO2	tablets Identify the various tissues and organs of
<b>B.PHARMACY</b>	HUMAN ANATOMY AND PHYSIOLOGY-I - T	CO3	different systems of human body
D.PRANIMACT		05	Explain the gross morphology, structure and
<b>B.PHARMACY</b>	HUMAN ANATOMY AND PHYSIOLOGY-I - T	CO1	functions of various organs of the human body
Dirmanmacı		001	Describe the various homeostatic mechanisms
<b>B.PHARMACY</b>	HUMAN ANATOMY AND PHYSIOLOGY-I - T	CO2	and their imbalances
			Appreciate coordinated working pattern of
<b>B.PHARMACY</b>	HUMAN ANATOMY AND PHYSIOLOGY-I - T	CO5	different organs of each system
			Perform the hematological tests like blood cell
			counts, haemoglobin estimation,
			bleeding/clotting time etc and also record blood
<b>B.PHARMACY</b>	HUMAN ANATOMY AND PHYSIOLOGY-I - T	CO4	pressure, heart rate, pulse
			Explain the gross morphology, structure and
B.PHARMACY	HUMAN ANATOMY AND PHYSIOLOGY-I - P	CO1	functions of various organs of the human body
			Describe the various homeostatic mechanisms
B.PHARMACY	HUMAN ANATOMY AND PHYSIOLOGY-I - P	CO2	and their imbalances
			Identify the various tissues and organs of
B.PHARMACY	HUMAN ANATOMY AND PHYSIOLOGY-I - P	CO3	different systems of human body
			Perform the hematological tests like blood cell
			counts, haemoglobin estimation, bleeding/clotting time etc and also record blood
<b>B.PHARMACY</b>	HUMAN ANATOMY AND PHYSIOLOGY-I - P	CO4	pressure, heart rate, pulse
D.FTIANWACT		04	Appreciate coordinated working pattern of
<b>B.PHARMACY</b>	HUMAN ANATOMY AND PHYSIOLOGY-I - P	CO5	different organs of each system
B.PHARMACY	HUMAN ANATOMY AND PHYSIOLOGY-I - P	CO6	Assess the knowledge acquired in Subject
			To know the basics of pathophysiology and cell
<b>B.PHARMACY</b>	PATHOPHYSIOLOGY	CO1	injury
			To know the inflammatory pathways and
<b>B.PHARMACY</b>	PATHOPHYSIOLOGY	CO2	immunity related disorders
<b>B.PHARMACY</b>	PATHOPHYSIOLOGY	CO3	To understand the hypersensitivity reactions
			To study and understand about cancer & its
<b>B.PHARMACY</b>	PATHOPHYSIOLOGY	CO4	types, shocks and radiation.
			To understand the environmental and nutrional
<b>B.PHARMACY</b>	PATHOPHYSIOLOGY	CO5	diseases
			To understand the pathogenesis, sign and
			symptoms of some common diseases, infectious
<b>B.PHARMACY</b>	PATHOPHYSIOLOGY	CO6	diseases and chromosomal disorders.

			Understand the pharmacological aspects of
			drugs falling under the above mentioned
<b>B.PHARMACY</b>	PHARMACOLOY - T	CO1	chapters
B.PHARMACY	PHARMACOLOY - T	CO2	Handle and carry out the animal experiments
		002	Appreciate the importance of pharmacology
<b>B.PHARMACY</b>	PHARMACOLOY - T	CO3	subject as a basis of therapeutics
			Correlate and apply the knowledge
<b>B.PHARMACY</b>	PHARMACOLOY - T	CO4	therapeutically
Diffiantiaci		004	Understand the pharmacological aspects of
<b>B.PHARMACY</b>	PHARMACOLOY - P	CO1	drugs
B.PHARMACY	PHARMACOLOY - P	CO1	Handle and carry out the animal experiments
DITIANNACT		02	Appreciate the importance of pharmacology
<b>B.PHARMACY</b>	PHARMACOLOY - P	CO3	subject as a basis of therapeutics
Di HAMMACI			Correlate and apply the knowledge
<b>B.PHARMACY</b>	PHARMACOLOY - P	CO4	therapeutically
D.FTIANMACT		04	Perform various pharmacological techniques in
<b>B.PHARMACY</b>	PHARMACOLOY - P	CO5	Experimental pharmacology
DIFINALI		005	Assess the knowledge acquired in experimental
		CO6	
B.PHARMACY	PHARMACOLOY - P	CO6	pharmacology
	PHARMACOLOGY&TOXICOLOGY - T	CO4	Appreciate applicablity of Chemotherapy in
B.PHARMACY		CO4	treating cancer and chemotherapy Understand the phases involved in drug
		CO1	
B.PHARMACY	PHARMACOLOGY&TOXICOLOGY - T	CO1	discovery
<b>B.PHARMACY</b>	PHARMACOLOGY&TOXICOLOGY - T	CO2	Various consideration of CNS acting drugs
		600	Pathways ,Mechanism and Pharmacology of
<b>B.PHARMACY</b>	PHARMACOLOGY&TOXICOLOGY - T	CO3	Analgesics and GIT drugs
D. D.U.A.D.A.A.O.V		0.05	Principles involved in immunopharmacology
B.PHARMACY	PHARMACOLOGY&TOXICOLOGY - T	CO5	and toxicology
B.PHARMACY	PHARMACOLOGY&TOXICOLOGY - T	CO5	Explain Pharmacology of local anesthetics
B.PHARMACY	PHARMACOLOGY&TOXICOLOGY - P	CO2	Various screening methodologies
B.PHARMACY	PHARMACOLOGY&TOXICOLOGY - P	CO1	Bioassay and evalaution of unknown sample
			Assesment of record ,Attendance ,aggregate
B.PHARMACY	PHARMACOLOGY&TOXICOLOGY - P	CO3	tests and viva in experimental part
M.PHARMACY	PHARMACOLOGICAL & TOXICOLOGICAL		Appreciate and correlate the preclinical data to
(Pharmacology)	SCREENING METHODS -I	CO4	humans
			Appraise the regulations and ethical
M.PHARMACY	PHARMACOLOGICAL & TOXICOLOGICAL		requirement for the usage of experimental
(Pharmacology)	SCREENING METHODS -I	CO1	animals
			Describe the various animals used in the drug
			discovery process and good laboratory practices
M.PHARMACY	PHARMACOLOGICAL & TOXICOLOGICAL		in maintenance and handling of experimental
(Pharmacology)	SCREENING METHODS -I	CO2	animals
M.PHARMACY	PHARMACOLOGICAL & TOXICOLOGICAL		Describe the various newer screening methods
(Pharmacology)	SCREENING METHODS -I	CO3	involved in the drug discovery process
M.PHARMACY			
(Pharmacology)	PHARMACOLOGY PRACTICAL -I	CO3	Isolation and identification of protein material
M.PHARMACY			
(Pharmacology)	PHARMACOLOGY PRACTICAL -I	CO4	Spectroscopical analysis of RNA/DNA
M.PHARMACY			Applicability of assays in quantitative study of
(Pharmacology)	PHARMACOLOGY PRACTICAL -I	CO5	biological samples
M.PHARMACY			Understand the Pharmacological Evaluation
(Pharmacology)	PHARMACOLOGY PRACTICAL -I	CO1	basics
M.PHARMACY			Evaluating the effectiveness of drugs using
(Pharmacology)	PHARMACOLOGY PRACTICAL -I	CO2	different screening methods
M.PHARMACY			Assessment of record, viva , test aggregate and
(Dharmacalagy)	PHARMACOLOGY PRACTICAL -I	CO6	Attendance
(Pharmacology)	PHARIVIACULUGT PRACTICAL -I	000	Attendance

(Pharmacology)			pathway
M.PHARMACY			Explain the molecular pathways affected by
(Pharmacology)	CELLULAR AND MOLECULAR PHARMACOLOGY	CO2	drugs
M.PHARMACY (Pharmacology)	CELLULAR AND MOLECULAR PHARMACOLOGY	CO3	Appreciate the applicablity of molecular pharmacology and biomarkers in drug discovery process
M.PHARMACY			Demondtrate Molecular biology techniques as
(Pharmacology)	CELLULAR AND MOLECULAR PHARMACOLOGY	CO4	applicable for pharmacology
PHARM.D	COMMUNITY PHARMACY	CO8	To understand about the different activities such as showing sympathy and empathy towards patients
PHARM.D	COMMUNITY PHARMACY	CO9	To study in detail the concepts of essential drug concept and rational drug therapy
			To appreciate store management and inventory
PHARM.D	COMMUNITY PHARMACY	CO10	control
PHARM.D	COMMUNITY PHARMACY	CO1	TO study about the various pharmaceutical care services
			To study about the changing scenario of
PHARM.D	COMMUNITY PHARMACY	CO2	pharmacy practice services in India
			To understand the different patient related
			activities such as patient counselling and
PHARM.D	COMMUNITY PHARMACY	CO3	dispensing safe and suitable medications
		60.4	To learn about various pharmacy skills such as
PHARM.D	COMMUNITY PHARMACY	CO4	dispensing of prescription and OTC drugs
		605	To understand about different minor ailments
PHARM.D	COMMUNITY PHARMACY	CO5	and treatment for these ailments
PHARM.D	COMMUNITY PHARMACY	CO6	To study about the different health screening services to be provided for patient care in a community pharmacy setup
PHARM.D	COMMUNITY PHARMACY	C07	To learn about community pharmacy and different management skills in community pharmacies such as business and professional practice
			To impart knowledge and skills necessary for
PHARM.D	PHARMACOTHERAPETICS-I - T	C01	contribution to quality use of medicines To study the etiopathogenesis of selected
PHARM.D	PHARMACOTHERAPETICS-I - T	CO2	diseases
PHARM.D	PHARMACOTHERAPETICS-I - T	CO3	To study about the rationality of drug therapy
			To study the therapeutic approach in the
PHARM.D	PHARMACOTHERAPETICS-I - T	CO4	management of diseases
PHARM.D	PHARMACOTHERAPETICS-I - T	CO5	To study the controversies in drug therapy
			To prepare the individualized therapeutic plan
PHARM.D	PHARMACOTHERAPETICS-I - T	CO6	based on diagnosis
PHARM.D	PHARMACOTHERAPETICS-I - T	C07	. To study the patient specific parameters in initiating drug therapy
PHARM.D	PHARMACOTHERAPETICS-I - T	CO8	. Distinguish the management strategies of selected diseases in special populations
			study in detail the concepts of essential drug
PHARM.D	PHARMACOTHERAPETICS-I - T	CO9	concept and rational drug therapy
			Assess drug safety monitoring, contraindications and treatment outcomes and modify Treatment
PHARM.D	PHARMACOTHERAPETICS-I - T	CO10	plan as needed
		664	To impart knowledge and skills necessary for
PHARM.D		<u>CO1</u>	contribution to quality use of medicines To study the etiopathogenesis of selected
PHARM.D	PHARMACOTHERAPETICS-I - P	CO2	diseases
PHARM.D	PHARMACOTHERAPETICS-I - P	CO3	To study about the rationality of drug therapy

			To study the therapeutic approach in the
PHARM.D	PHARMACOTHERAPETICS-I - P	CO4	management of diseases
PHARM.D	PHARMACOTHERAPETICS-I - P	CO5	To study the controversies in drug therapy
			To prepare the individualized therapeutic plan
PHARM.D	PHARMACOTHERAPETICS-I - P	CO6	based on diagnosis
			To study the patient specific parameters in
PHARM.D	PHARMACOTHERAPETICS-I - P	C07	initiating drug therapy
			Monitoring of drug therapy such as alternatives,
			therapeutic responses produced and adverse
PHARM.D	PHARMACOTHERAPETICS-I - P	CO8	effects
PHARM.D	PHARMACOTHERAPETICS-I - P	CO9	To present case studies accordin to syllabus
			To analyse students based on their class test
PHARM.D	PHARMACOTHERAPETICS-I - P	CO10	and attendance
			To impart knowledge and skills necessary for
PHARM.D	PHARMACOTHERAPEUTICS-II - T	CO1	contribution to quality use of medicines
			To study the etiopathogenesis of selected
PHARM.D	PHARMACOTHERAPEUTICS-II - T	CO2	diseases
			To study the therapeutic approach in the
PHARM.D	PHARMACOTHERAPEUTICS-II - T	CO3	management of diseases
			To prepare the individualized therapeutic plan
PHARM.D	PHARMACOTHERAPEUTICS-II - T	CO4	based on diagnosis
			To study the patient specific parameters in
PHARM.D	PHARMACOTHERAPEUTICS-II - T	CO5	initiating drug therapy
			Distinguish the management strategies of
PHARM.D	PHARMACOTHERAPEUTICS-II - T	CO6	selected diseases in special populations
PHARM.D	PHARMACOTHERAPEUTICS-II - T	C07	Study about rational use of antibiotics
			Assess drug safety monitoring, contraindications
			and treatment outcomes and modify treatment
PHARM.D	PHARMACOTHERAPEUTICS-II - T	CO8	plan as needed.
PHARM.D	PHARMACOTHERAPEUTICS-II - P	CO1	Develop skill for writing clinical notes
PHARM.D	PHARMACOTHERAPEUTICS-II - P	CO2	Therapeutic decision making skill
PHARM.D	PHARMACOTHERAPEUTICS-II - P	CO3	Develop recording and documentation skill
PHARM.D	PHARMACOTHERAPEUTICS-II - P	CO4	Develop clinical problem solving skill
			Practical knowledge , understanding of various
PHARM.D	PHARMACOTHERAPEUTICS-II - P	CO5	disease.
PHARM.D	PHARMACOTHERAPEUTICS-II - P	CO6	Assessment based on test and attendance
			To impart knowledge and skills necessary for
PHARM.D	PHARMACOTHERAPEUTICS-III - T	CO1	contribution to quality use of medicines
			To study the etiopathogenesis of selected
PHARM.D	PHARMACOTHERAPEUTICS-III - T	CO2	diseases
PHARM.D	PHARMACOTHERAPEUTICS-III - T	CO3	To study about the rationality of drug therapy
			To study the therapeutic approach in the
PHARM.D	PHARMACOTHERAPEUTICS-III - T	CO4	management of diseases
PHARM.D	PHARMACOTHERAPEUTICS-III - T	CO5	To study the controversies in drug therapy
			To prepare the individualized therapeutic plan
PHARM.D	PHARMACOTHERAPEUTICS-III - T	CO6	based on diagnosis
			To study the patient specific parameters in
PHARM.D	PHARMACOTHERAPEUTICS-III - T	CO7	initiating drug therapy
			Assess drug safety monitoring, contraindications
			and treatment outcomes and modify treatment
PHARM.D	PHARMACOTHERAPEUTICS-III - T	CO10	plan as needed
			Distinguish the management strategies of
PHARM.D	PHARMACOTHERAPEUTICS-III - T	CO8	selected diseases in special populations.
			Study in detail the concepts of essential drug
PHARM.D	PHARMACOTHERAPEUTICS-III - T	CO9	concept and rational drug therapy
PHARM.D	PHARMACOTHERAPEUTICS-III - P	CO5	To study the controversies in drug therapy
PHARM.D	PHARMACOTHERAPEUTICS-III - P	CO6	To prepare the individualized therapeutic plan

			based on diagnosis
			To study the patient specific parameters in
PHARM.D	PHARMACOTHERAPEUTICS-III - P	CO7	initiating drug therapy
			Monitoring of drug therapy such as alternatives,
			therapeutic responses produced and adverse
PHARM.D	PHARMACOTHERAPEUTICS-III - P	CO8	effects
			study in detail the concepts of essential drug
PHARM.D	PHARMACOTHERAPEUTICS-III - P	CO9	concept and rational drug therapy
			To impart knowledge and skills necessary for
PHARM.D	PHARMACOTHERAPEUTICS-III - P	CO1	contribution to quality use of medicines
			To study the pathophysiology of selected
PHARM.D	PHARMACOTHERAPEUTICS-III - P	CO2	diseases
PHARM.D	PHARMACOTHERAPEUTICS-III - P	CO3	To study about the rationality of drug therapy
			To study the therapeutic approach in the
PHARM.D	PHARMACOTHERAPEUTICS-III - P	CO4	management of diseases
PHARM.D	HOSPITAL PHARMACY - T	C01	Know various drug distribution methods
			Know the manufacturing practices of various
PHARM.D	HOSPITAL PHARMACY - T	CO3	formulations in hospital set up
PHARM.D	HOSPITAL PHARMACY - T	CO4	Appreciate the practice based research methods
THANNI.D			Appreciate the stores management and
PHARM.D	HOSPITAL PHARMACY - T	CO5	inventory control.
THANNI.D			Provide unbiased drug information to the
PHARM.D	HOSPITAL PHARMACY - T	CO6	doctors
FTIAININ.D			Know the professional practice management
PHARM.D	HOSPITAL PHARMACY - T	CO2	skills in hospital pharmacies
PHARM.D	HOSPITAL PHARMACY - P	C01	Know various drug distribution methods
PHARIVI.D	HOSPITAL PHARMACT - P	01	Know the professional practice management
		CO2	· · · · ·
PHARM.D	HOSPITAL PHARMACY - P	02	skills in hospital pharmacies
PHARM.D		602	Know the manufacturing practices of various
	HOSPITAL PHARMACY - P	CO3	formulations in hospital set up
PHARM.D	HOSPITAL PHARMACY - P	CO4	Appreciate the practice based research methods
		COL	Appreciate the stores management and
PHARM.D	HOSPITAL PHARMACY - P	CO5	inventory control.
		606	Provide unbiased drug information to the
PHARM.D	HOSPITAL PHARMACY - P	CO6	doctors
			Interpret selected laboratory results (as
		coc	monitoring parameters in therapeutics) of
PHARM.D	CLINICAL PHARMACY - T	C06	specific disease states
		<b>CO1</b>	Retrieve, analyse, interpret and formulate drug
PHARM.D	CLINICAL PHARMACY - T	CO1	information
			Monitor drug therapy of patient through
PHARM.D	CLINICAL PHARMACY - T	CO2	medication chart review and clinical review
			Obtain medication history interview and
PHARM.D	CLINICAL PHARMACY - T	CO3	counsel the patients
			Identify medication errors and resolve drug
PHARM.D	CLINICAL PHARMACY - T	CO4	related problems
			Detect, assess and monitor adverse drug
PHARM.D	CLINICAL PHARMACY - T	CO5	reaction
PHARM.D	CLINICAL PHARMACY - P	C01	Answering drug information questions
PHARM.D	CLINICAL PHARMACY - P	CO2	Patient medication counselling
PHARM.D	CLINICAL PHARMACY - P	CO4	Patient medication history interview
			Present Case studies related to laboratory
PHARM.D	CLINICAL PHARMACY - P	CO3	investigations
			Improve proper documentation and record
PHARM.D	CLINICAL PHARMACY - P	CO7	maintanence
			Understand and address clinical conditions as
PHARM.D	CLINICAL PHARMACY - P	CO6	clinical pharmacist

			Analyse students based on class test and
PHARM.D	CLINICAL PHARMACY - P	CO5	attendance
			Know the concept of new drug development
PHARM.D	CLINICAL RESEARCH	CO1	process
			Know the concept of clinical development of
PHARM.D	CLINICAL RESEARCH	CO2	drug
			Understand the regulatory and ethical
PHARM.D	CLINICAL RESEARCH	CO3	requirements
			Conduct the clinical trials in accordance to
PHARM.D	CLINICAL RESEARCH	CO4	regulatory and ethical requirements
			Coordinate the clinical trials and promote
PHARM.D	CLINICAL RESEARCH	CO5	quality drug trial research
	PHARMACOEPIDEMIOLOGY		TO impart knowledge regarding various
PHARM.D	&PHARMACOECONOMICS	CO1	pharmacoepidemiological methods
	PHARMACOEPIDEMIOLOGY		To identify and interpret outcome measures in
PHARM.D	&PHARMACOECONOMICS	CO2	pharmacoepidemiology
	PHARMACOEPIDEMIOLOGY		To understand the applications of
PHARM.D	&PHARMACOECONOMICS	CO3	pharmacoepidemiology in performing research
	PHARMACOEPIDEMIOLOGY		. To interpret the concept of risk involved in
PHARM.D	&PHARMACOECONOMICS	CO4	pharmacoepidemiology
			To identify the scope of pharmacoepidemiology
	PHARMACOEPIDEMIOLOGY	605	in different areas such as drug safety monitoring
PHARM.D		CO5	and regulations
	PHARMACOEPIDEMIOLOGY	<b>CO</b> 6	To study about the different methods of
PHARM.D		CO6	pharmacoeconomics To learn different applications of
PHARM.D	PHARMACOEPIDEMIOLOGY &PHARMACOECONOMICS	C07	pharmacoeconomics
PHARIVI.D	PHARMACOEPIDEMIOLOGY	07	To apply and interpret the different concepts of
PHARM.D	&PHARMACOEFIDEMIOLOGY &PHARMACOECONOMICS	CO8	pharmacoeconomics
FHANNI	PHARMACOEPIDEMIOLOGY	008	To interpret the various outcome measures in
PHARM.D	&PHARMACOECONOMICS	CO9	pharmacoeconomics
	PHARMACOEPIDEMIOLOGY		To identify the sources of data for
PHARM.D	&PHARMACOECONOMICS	CO10	pharmacoepidemiology studies
			Design the drug therapy regimen for individual
PHARM.D	PHARMACOTHERAPEUTIC DRUG MONITORING	CO1	patient
			Interpret and correlate the plasma drug
			concentration with patient's therapeutic
PHARM.D	PHARMACOTHERAPEUTIC DRUG MONITORING	CO2	outcome.
			Recommend dosage adjustment for patients
PHARM.D	PHARMACOTHERAPEUTIC DRUG MONITORING	CO3	with renal/ hepatic impairment
PHARM.D	PHARMACOTHERAPEUTIC DRUG MONITORING	CO4	Detect and manage drug –drug interaction
			Appreciate the stores management and
PHARM.D	CLERKSHIP	CO5	inventory control.
			Provide unbiased drug information to the
PHARM.D	CLERKSHIP	CO6	doctors
PHARM.D	CLERKSHIP	C01	Know various drug distribution methods
			Know the professional practice management
PHARM.D	CLERKSHIP	CO2	skills in hospital pharmacies
			Know the manufacturing practices of various
PHARM.D	CLERKSHIP	CO3	formulations in hospital set up
PHARM.D	CLERKSHIP	CO4	Appreciate the practice based research methods
		CO1	know the formulation aspects of different
PHARM D	PHARMACEUTICS - T	CO1	dosage forms
PHARM D		CO2	do different pharmaceutical calculation involved in formulation
PHARM D PHARM D	PHARMACEUTICS - T PHARMACEUTICS - P	CO2	formulate different types of dosage forms
PHARM D	PHARMACEUTICS - P PHARMACEUTICS - P	CO3	appreciate the importance of good formulation
	FHARIVIACEUTICS - P	04	appreciate the importance of good formulation

		I	for effectiveness
			understand the various concepts of the
PHARM D	PHARMACEUTICAL JURISPRUDENCE - T	CO2	pharmaceutical legislation in India
			know the various parameters in the Drug and
PHARM D	PHARMACEUTICAL JURISPRUDENCE - T	CO3	Cosmetic Act and rules
PHARM D	PHARMACEUTICAL JURISPRUDENCE - T	CO1	Practice the Professional ethics
			know the Drug policy, Essential commodities
PHARM D	PHARMACEUTICAL JURISPRUDENCE - T	CO4	Act, DPCO, Patent and design act
			be able to understand the concepts of
			Dangerous Drugs Act, Pharmacy Act and
PHARM D	PHARMACEUTICAL JURISPRUDENCE - T	CO5	Medicinal & toilet preparations Act
			To understand Narcotic drugs and Psychotropic
			substances Act, Drugs & Magic remedies Act,
			the prevention to cruelity to animals Act and
			other laws as prescribed by the Pharmacy
PHARM D	PHARMACEUTICAL JURISPRUDENCE - T	CO6	Council of India
			understand and appreciate the concept of
			bioavailability and bioequivalence, their role in
PHARM D	PHARMACEUTICAL FORMULATIONS - T	CO4	clinical situations
			understand the principle involved in formulation
PHARM D	PHARMACEUTICAL FORMULATIONS - T	CO1	of various pharmaceutical dosage forms
PHARM D	PHARMACEUTICAL FORMULATIONS - P	CO2	prepare various pharmaceutical formulations
			perform evaluation of pharmaceutical dosage
PHARM D	PHARMACEUTICAL FORMULATIONS - P	CO3	forms
			Knowledge on biopharmaceutics and ADME of
PHARM D	BIOPHARMACEUTICS & PHARMACOKINETICS - T	CO1	drugs
			To introduce the basic concepts of
		600	pharmacokinetics, compartmental and non-
PHARM D	BIOPHARMACEUTICS & PHARMACOKINETICS - T	CO2	compartmental modelling
		600	To understand Multiple dosage regimen, and
PHARM D	BIOPHARMACEUTICS & PHARMACOKINETICS - T	CO3	non-linear pharmacokinetics
PHARM D	BIOPHARMACEUTICS & PHARMACOKINETICS - T	CO4	To understand the various concepts of Bio- availability and Bio-equivalence
	BIOFHARMACEUTICS & FHARMACORINETICS - T	04	To study dissolution improvement techniques
PHARM D	BIOPHARMACEUTICS & PHARMACOKINETICS - P	CO5	and methods of comparison of profiles
PHARM D	BIOPHARMACEUTICS & PHARMACOKINETICS - P	CO5	Protein binding studies
	BIOFHANMACLUTICS & FHANMACONNETICS - F	000	Determination of pharmacokinetic parameters
PHARM D	BIOPHARMACEUTICS & PHARMACOKINETICS - P	C07	mathematically and graphically
	BIOT HANMACLOTICS & HANMACONNETICS T	007	to know the techniques in the cultivation and
D.PHARMACY	PHARMACOGNOSY -T	1	production of crude drugs
		-	to know the crude drugs, their uses and
D.PHARMACY	PHARMACOGNOSY -T	2	chemical nature.
		_	know the evaluation techniques for the herbal
D.PHARMACY	PHARMACOGNOSY -T	3	drugs
		_	to carry out the microscopic and morphological
D.PHARMACY	PHARMACOGNOSY -T	4	evaluation of crude drugs.
D.PHARMACY	PHARMACOGNOSY - P	1	STUDY OF MICROSCOPE
-		1	IDENTIFICATION OF DRUGS BY
D.PHARMACY	PHARMACOGNOSY - P	2	MORPHOLOGICAL CHARACTERS
D.PHARMACY	PHARMACOGNOSY - P	3	GROSS ANATOMICAL STUDIES OF CRUDE DRUGS
			PHYSICAL AND CHEMICAL EVALUATION OF
D.PHARMACY	PHARMACOGNOSY - P	4	CRUDE DRUGS
			IDENTIFICATION OF FIBERS AND SURGICAL
D.PHARMACY	PHARMACOGNOSY - P	5	DRESSINGS
			Understand the importance of drug
		1	Nomenclature and IUPAC Name
D.PHARMACY	PHARMACEUTICAL CHEMISTRY-II - T	<b>T</b>	Nomenciature and for Ac Name

1		1	Know the Brand name, chemical structure,
			IUPAC name, physical & chemical properties,
D.PHARMACY	PHARMACEUTICAL CHEMISTRY-II - T	3	stability& storage and therapeutic uses of drugs.
Dirfianmacı		5	To understand the Melting Point of Unknown
D.PHARMACY	PHARMACEUTICAL CHEMISTRY-II - P	1	Compound
			To understand the boiling Point of unknown
D.PHARMACY	PHARMACEUTICAL CHEMISTRY-II - P	2	compound
			To perform the Qualitative Test for Organic
D.PHARMACY	PHARMACEUTICAL CHEMISTRY-II - P	3	compounds
			To perform the synthesis of different organic
D.PHARMACY	PHARMACEUTICAL CHEMISTRY-II - P	4	compounds
			Appreciate the interlinked mechanisms in the
			maintenance of normal functioning
PHARM D	HUMAN ANATOMY AND PHYSIOLOGY - T	CO6	(homeostasis) of human body.
			Describe the structure (gross and histology) and
PHARM D	HUMAN ANATOMY AND PHYSIOLOGY - T	CO1	functions of various organs of the human body;
			Describe the various homeostatic mechanisms
PHARM D	HUMAN ANATOMY AND PHYSIOLOGY - T	CO2	and their imbalances of various systems
			Identify the various tissues and organs of the
PHARM D	HUMAN ANATOMY AND PHYSIOLOGY - T	CO3	different systems of the human body
			Perform the hematological tests and also record
			blood pressure, heart rate, pulse and
PHARM D	HUMAN ANATOMY AND PHYSIOLOGY - T	CO4	Respiratory volumes
			Appreciate coordinated working pattern of
PHARM D	HUMAN ANATOMY AND PHYSIOLOGY - T	CO5	different organs of each system
			Describe the structure (gross and histology) and
PHARM D	HUMAN ANATOMY AND PHYSIOLOGY - P	CO1	functions of various organs of the human body
			Describe the various homeostatic mechanisms
PHARM D	HUMAN ANATOMY AND PHYSIOLOGY - P	CO2	and their imbalances of various systems
PHARM D		602	Identify the various tissues and organs of the
	HUMAN ANATOMY AND PHYSIOLOGY - P	CO3	different systems of the human body Perform the hematological tests and also record
			blood pressure, heart rate, pulse and
PHARM D	HUMAN ANATOMY AND PHYSIOLOGY - P	CO4	Respiratory volumes;
		04	Appreciate coordinated working pattern of
PHARM D	HUMAN ANATOMY AND PHYSIOLOGY - P	CO5	different organs of each system
			Appreciate the interlinked mechanisms in the
			maintenance of normal functioning
PHARM D	HUMAN ANATOMY AND PHYSIOLOGY - P	CO6	(homeostasis) of human body.
PHARM D	HUMAN ANATOMY AND PHYSIOLOGY - P	C07	To justify continous assesment
			Describe the etiology and pathogenesis of the
PHARM D	PATHOPHYSIOLOGY - T	CO1	selected disease states
PHARM D	PATHOPHYSIOLOGY - T	CO2	Name the signs and symptoms of the diseases
PHARM D	PATHOPHYSIOLOGY - T	CO2	Name the signs and symptoms of the diseases
PHARM D	PATHOPHYSIOLOGY - T	CO2	Name the signs and symptoms of the diseases
PHARM D	PATHOPHYSIOLOGY - T	CO3	Mention the complications of the diseases
			To know the anatomy, identification, growth
PHARM D	PHARMACEUTICAL MICROBIOLOGY - T	CO1	factors and sterilization of microorganisms
			To know the mode of transmission of disease
			causing microorganism, symptoms of disease,
PHARM D	PHARMACEUTICAL MICROBIOLOGY - T	CO2	and treatment aspect
			Do estimation of RNA and DNA and there by
PHARM D	PHARMACEUTICAL MICROBIOLOGY - T	CO3	identifying the source
			Do cultivation and identification of the
PHARM D	PHARMACEUTICAL MICROBIOLOGY - T	CO4	microorganisms in the laboratory
		_	Do identification of diseases by performing the
PHARM D	PHARMACEUTICAL MICROBIOLOGY - T	CO5	diagnostic tests

			Appreciate the behavior of motility and
PHARM D	PHARMACEUTICAL MICROBIOLOGY - T	CO6	behavioral characteristics of microorganisms
			To know the mode of transmission of disease
			causing microorganism, symptoms of disease,
PHARM D	PHARMACEUTICAL MICROBIOLOGY - P	CO2	and treatment aspect
			Do estimation of RNA and DNA and there by
PHARM D	PHARMACEUTICAL MICROBIOLOGY - P	CO3	identifying the source
			Do cultivation and identification of the
PHARM D	PHARMACEUTICAL MICROBIOLOGY - P	CO4	microorganisms in the laboratory
			Do identification of diseases by performing the
PHARM D	PHARMACEUTICAL MICROBIOLOGY - P	CO5	diagnostic tests
			Appreciate the behavior of motility and
PHARM D	PHARMACEUTICAL MICROBIOLOGY - P	CO6	behavioral characteristics of microorganisms
			To know the anatomy, identification, growth
PHARM D	PHARMACEUTICAL MICROBIOLOGY - P	CO1	factors and sterilization of microorganisms
			To evaluate the practical ability of students by
PHARM D	PHARMACEUTICAL MICROBIOLOGY - P	CO7	Justify viva voice, record etc.
			classify cholinomimetics and pharmacology of
PHARM D	PHARMACOLOGY-I - T	co1	ach
			classify adrenergic agonist and pharmacology of
PHARM D	PHARMACOLOGY-I - T	co1	noradrenaline
PHARM D	PHARMACOLOGY-I - T	co3	note on GPCR
PHARM D	PHARMACOLOGY - T	co3	factors effecting absorption of drugs
PHARM D	PHARMACOLOGY I - T	co3	pharmacokinetic drug interactions child dose calculation
PHARM D PHARM D	PHARMACOLOGY-I - T PHARMACOLOGY-I - T	co4 co3	
PHARM D	PHARMACOLOGY-I - T	co3	cholinergic receptors non competitive antagonism
PHARM D	PHARMACOLOGY-I - T	co4	ganglionic blockers
PHARM D	PHARMACOLOGY-I - T	co4	bioavailability
		04	Understand the pharmacological aspects of
PHARM D	PHARMACOLOGY	CO1	drugs.
PHARM D	PHARMACOLOGY	CO2	Carry out the animal experiments confidently
			Appreciate the importance of pharmacology
PHARM D	PHARMACOLOGY	CO3	subject as a basis of therapeutics
			Correlate and apply the knowledge
PHARM D	PHARMACOLOGY	CO4	therapeutically
PHARM D	CLINICAL TOXICOLOGY - T	CO5	To know the substance abuse
			To know the management of poisoning,
PHARM D	CLINICAL TOXICOLOGY - T	CO1	antidotes
			To understand the supportive care in clinical
PHARM D	CLINICAL TOXICOLOGY - T	CO2	toxicology
			To know the others poisoning i.e venom, plant
PHARM D	CLINICAL TOXICOLOGY - T	CO4	and food poisoning
			To know the Management of acute and chronic
PHARM D	CLINICAL TOXICOLOGY - T	CO3	poisoning
			. Know the sources of impurities and methods
B BUAR			to determine the impurities in inorganic drugs
D.PHARMACY	PHARMACEUTICAL CHEMISTRY-I -T	co 1	and pharmaceuticals
D DUADRAACY		2	Understand the medicinal and pharmaceutical
D.PHARMACY	PHARMACEUTICAL CHEMISTRY-I -T	co 2	importance of inorganic compounds
			1) Define the following terms A) Antacid b)
D.PHARMACY			Bacteriostatics & Bacteriocides c) Disinfectants
D.FRARIVIACT	PHARMACEUTICAL CHEMISTRY-I - P		d) Buffer capacity e) Respiratory stimulants To perform various processes involved in
D.PHARMACY	PHARMACEUTICS-I - T	CO6	pharmaceutical manufacturing process.
		00	To know various unit operations used in
D.PHARMACY	PHARMACEUTICS-I - T	CO4	Pharmaceutical industries
STHANMACI		004	

		Understand the basics of different dosage forms
PHARMACEUTICS-I - T	CO2	and pharmaceutical calculations
PHARMACEUTICS-I - T	CO1	Know the history of profession of pharmacy
		Formulate solid, liquid and semisolid dosage
PHARMACEUTICS-I - P	CO3	forms
PHARMACEUTICS-II - T	CO1	Ability and skill to handle prescriptions
		Knowledge of various pharmaceutical dosage
		forms including liquid, solid and semi-solid
PHARMACEUTICS-II - T	CO2	dosage form
		Basic knowledge on Dental and cosmetic
PHARMACEUTICS-II - T	CO3	preparations
		be able to understand the concepts of Study of
PHARMACEUTICS-II - T	CO4	sterile dosage forms
		Ability to identify incompatibilities and suggest
PHARMACEUTICS-II - P	CO5	remedies
		Formulation of various pharmaceutical dosage
PHARMACEUTICS-II - P	CO6	forms
HUMAN ANATOMY AND PHYSIOLOGY - T	co1	classify joints
HUMAN ANATOMY AND PHYSIOLOGY - T	co1	prokaryotic and eukaryotic cell
HUMAN ANATOMY AND PHYSIOLOGY - T	co1	types of vertebrae and bones of skull
HUMAN ANATOMY AND PHYSIOLOGY - T	co1	lymph and explain lymphatic system
		cardiac cycle
		connective tissues and functions
		clotting and physiology of clotting
		Understand the pharmacological actions of
ΡΗΑΡΜΑΓΟΙ ΟΩΥ ΑΝΟ ΤΟΧΙΟΟΙ ΟΩΥ - Τ	CO1	different categories of drugs
		Explain the mechanism of drug action at organ
ΡΗΑΡΜΑΓΟΙ ΟΩΥ ΑΝΟ ΤΟΧΙΟΟΙ ΟΩΥ - Τ	CO2	system/sub cellular/ macromolecular levels.
	002	Apply the basic pharmacological knowledge in
		the prevention and treatment of various
ΡΗΔΡΜΑΓΟΙ Ο ΟΥ ΑΝΟ ΤΟΧΙΟΟΙ Ο ΟΥ - Τ	603	diseases.
		Observe the effect of drugs on animals by
ΡΗΑΡΜΑΓΟΙ ΟΩΥ ΑΝΟ ΤΟΧΙΟΟΙ ΟΩΥ - Τ	CO4	simulated experiments
	004	Understand the pharmacological actions of
ΡΗΔΡΜΑΓΟΙ Ο ΟΥ ΑΝΟ ΤΟΧΙΟΟΙ Ο ΟΥ - Ρ	CO1	different categories of drugs
		Explain the mechanism of drug action at organ
ΡΗΔΡΜΑΓΟΙ ΟΩΥ ΑΝΟ ΤΟΧΙΟΟΙ ΟΩΥ - Ρ	CO2	system/sub cellular/ macromolecular levels
	002	Apply the basic pharmacological knowledge in
		the prevention and treatment of various
ΡΗΔΡΜΑΓΟΙ ΟΩΥ ΑΝΟ ΤΟΧΙΟΟΙ ΟΩΥ - Ρ	603	diseases
		Observe the effect of drugs on animals by
PHARMACOLOGY AND TOXICOLOGY - P	CO4	simulated experiments
		To justify continuous assessment
		Practice the Professional ethics
		Understand the various concepts of the
PHARMACEUTICAL IURISPRUDENCE	CO2	pharmaceutical legislation in India
		Know the various parameters in the Drug and
PHARMACEUTICAL ILIRISPRUDENCE	500	Cosmetic Act and rules
		Know the DPCO
	0.04	Understand the labeling requirements and
	005	packaging guidelines for drugs and cosmetics
	005	Be able to understand the concepts of
	C06	
	c06	Pharmacy Act channels of distribution
DRUG STORE AND DUSINESS MANAGEMENT		
DRUG STORE AND BUSINESS MANAGEMENT DRUG STORE AND BUSINESS MANAGEMENT	co1	codification and its disadvantages
	PHARMACEUTICS-I - T         PHARMACEUTICS-I - P         PHARMACEUTICS-II - T         PHARMACEUTICS-II - P         PHARMACEUTICS-II - P         HUMAN ANATOMY AND PHYSIOLOGY - T         HUMAN ANATOMY AND PHYSIOLOGY - T         HUMAN ANATOMY AND PHYSIOLOGY - T	PHARMACEUTICS-I - TCO1PHARMACEUTICS-II - TCO3PHARMACEUTICS-II - TCO1PHARMACEUTICS-II - TCO2PHARMACEUTICS-II - TCO3PHARMACEUTICS-II - TCO4PHARMACEUTICS-II - TCO5PHARMACEUTICS-II - PCO5PHARMACEUTICS-II - PCO6HUMAN ANATOMY AND PHYSIOLOGY - Tco1HUMAN ANATOMY AND PHYSIOLOGY - Tco2PHARMACOLOGY AND TOXICOLOGY - TcO2PHARMACOLOGY AND TOXICOLOGY - TCO3PHARMACOLOGY AND TOXICOLOGY - TCO4PHARMACOLOGY AND TOXICOLOGY - PCO3PHARMACOLOGY AND TOXICOLOGY - PCO3PHARMACEUTICAL JURISPRUDENCECO4PHARMACEUTICAL JURISPRUDENCECO3PHARMACEUTICAL JURISPRUDENCECO3PHARMACEUTICAL JURISPRUDENCECO3PHARMACEUTICAL JURISPRUDENCECO3PHARMACEUTICAL JURISPRUDENCECO4

D.PHARMACY	DRUG STORE AND BUSINESS MANAGEMENT	co2	trade and industry
			difference between pubulic limited company
D.PHARMACY	DRUG STORE AND BUSINESS MANAGEMENT	co2	and private limited company
			difference between sole proprietorship and
D.PHARMACY	DRUG STORE AND BUSINESS MANAGEMENT	co2	partnership
D.PHARMACY	DRUG STORE AND BUSINESS MANAGEMENT	co2	commerce
			To know the metabolic process of biomolecules
D.PHARMACY	BIOCHEMISTRY AND CLINICAL PATHOLOGY - T	CO1	in health and illness (metabolic disorders)
			To understand the catalytic activity of enzymes
			and importance of isoenzymes in diagnosis of
D.PHARMACY	BIOCHEMISTRY AND CLINICAL PATHOLOGY - T	CO2	diseases
			To understand the chemistry, role, qualitative
D.PHARMACY	BIOCHEMISTRY AND CLINICAL PATHOLOGY - T	CO3	analysis and determination of biomolecules
			To understand the physiological importance of
D.PHARMACY	BIOCHEMISTRY AND CLINICAL PATHOLOGY - T	CO4	vitamins in the body
D.PHARMACY	BIOCHEMISTRY AND CLINICAL PATHOLOGY - T	CO5	To study the pathology of blood and urine
			To understand the procedure for identification
D.PHARMACY	BIOCHEMISTRY AND CLINICAL PATHOLOGY - P	CO2	of biomolecules.
D.PHARMACY	BIOCHEMISTRY AND CLINICAL PATHOLOGY - P	CO3	To perform qualitative tests for biomolecules.
D.PHARMACY	BIOCHEMISTRY AND CLINICAL PATHOLOGY - P	CO4	To find out the abnormal constituenys in urine.
			To understand the chemistry, role, qualitative
D.PHARMACY	BIOCHEMISTRY AND CLINICAL PATHOLOGY - P	CO1	analysis and determination of biomolecules
	HEALTH EDUCATION AND COMMUNITY		
D.PHARMACY	PHARMACY	CO1	know pharmaceutical care services
	HEALTH EDUCATION AND COMMUNITY		know the business and professional practice
D.PHARMACY	PHARMACY	CO2	management skills in community pharmacies
			Do patient counselling & provide health
	HEALTH EDUCATION AND COMMUNITY		screening services to public in community
D.PHARMACY	PHARMACY	CO3	pharmacy
	HEALTH EDUCATION AND COMMUNITY		Respond to minor ailments and provide
D.PHARMACY	PHARMACY	CO4	appropriate medication
	HEALTH EDUCATION AND COMMUNITY		
D.PHARMACY	PHARMACY	CO5	show empathy and sympathy to patients
	HEALTH EDUCATION AND COMMUNITY		Appreciate the concept of Rational drug
D.PHARMACY	PHARMACY	CO6	therapy.
D.PHARMACY	HOSPITAL & CLINICAL PHARMACY - T	CO1	know various drug distribution methods
	· · · · · · · · · · · · · · · · · · ·		know the professional practice management
D.PHARMACY	HOSPITAL & CLINICAL PHARMACY - T	CO2	skills in hospital pharmacies
			provide unbiased drug information to the
D.PHARMACY	HOSPITAL & CLINICAL PHARMACY - T	CO3	doctors
		604	know the manufacturing practices of various
D.PHARMACY	HOSPITAL & CLINICAL PHARMACY - T	CO4	formulations in hospital set up
		COL	monitor drug therapy of patient through
D.PHARMACY	HOSPITAL & CLINICAL PHARMACY - T	CO5	medication chart review and clinical review obtain medication history interview and counsel
	HOSPITAL & CLINICAL PHARMACY - T	CO6	the patients
D.PHARMACY		C06	· ·
D.PHARMACY	HOSPITAL & CLINICAL PHARMACY - T	0/	Identify and resolve drug related problems retrieve, analyze, interpret and formulate drug
D.PHARMACY	HOSPITAL & CLINICAL PHARMACY - T	CO8	or medicine information
DIFTIANIWAUT		0.08	know the manufacturing practices of various
D.PHARMACY	HOSPITAL & CLINICAL PHARMACY - P	CO1	formulations in hospital set up
PHARM.D[POST			To impart knowledge and skills necessary for
BACCALAUREATE]	PHARMACOTHERAPEUTICS-III - T	CO1	contribution to quality use of medicines
PHARM.D[POST			To study the etiopathogenesis of selected
BACCALAUREATE]	PHARMACOTHERAPEUTICS-III - T	CO2	diseases
PHARM.D[POST		002	
BACCALAUREATE]	PHARMACOTHERAPEUTICS-III - T	CO3	To study about the rationality of drug therapy
DACCALAUNEATE		005	To study about the rationality of drug therapy

PHARM.D[POST			To study the therapeutic approach in the
BACCALAUREATE]	PHARMACOTHERAPEUTICS-III - T	CO4	management of diseases
PHARM.D[POST			
BACCALAUREATE]	PHARMACOTHERAPEUTICS-III - T	CO5	To study the controversies in drug therapy
PHARM.D[POST			To prepare the individualized therapeutic plan
BACCALAUREATE]	PHARMACOTHERAPEUTICS-III - T	CO6	based on diagnosis
PHARM.D[POST			To study the patient specific parameters in
BACCALAUREATE]	PHARMACOTHERAPEUTICS-III - T	C07	initiating drug therapy
-			
PHARM.D[POST BACCALAUREATE]		CO8	Distinguish the management strategies of selected diseases in special populations.
	PHARMACOTHERAPEUTICS-III - T	0.08	
PHARM.D[POST		<b>CO0</b>	Study in detail the concepts of essential drug
BACCALAUREATE]	PHARMACOTHERAPEUTICS-III - T	CO9	concept and rational drug therapy
			Assess drug safety monitoring, contraindications
PHARM.D[POST		6010	and treatment outcomes and modify treatment
BACCALAUREATE]	PHARMACOTHERAPEUTICS-III - T	CO10	plan as needed
PHARM.D[POST			To impart knowledge and skills necessary for
BACCALAUREATE]	PHARMACOTHERAPEUTICS-III - P	CO1	contribution to quality use of medicines
PHARM.D[POST			To study the pathophysiology of selected
BACCALAUREATE]	PHARMACOTHERAPEUTICS-III - P	CO2	diseases
PHARM.D[POST			
BACCALAUREATE]	PHARMACOTHERAPEUTICS-III - P	CO3	To study about the rationality of drug therapy
PHARM.D[POST			To study the therapeutic approach in the
BACCALAUREATE]	PHARMACOTHERAPEUTICS-III - P	CO4	management of diseases
PHARM.D[POST			
BACCALAUREATE]	PHARMACOTHERAPEUTICS-III - P	CO5	To study the controversies in drug therapy
PHARM.D[POST			To prepare the individualized therapeutic plan
BACCALAUREATE]	PHARMACOTHERAPEUTICS-III - P	CO6	based on diagnosis
PHARM.D[POST			To study the patient specific parameters in
BACCALAUREATE]	PHARMACOTHERAPEUTICS-III - P	C07	initiating drug therapy
			Monitoring of drug therapy such as alternatives,
PHARM.D[POST			therapeutic responses produced and adverse
BACCALAUREATE]	PHARMACOTHERAPEUTICS-III - P	CO8	effects
PHARM.D[POST			study in detail the concepts of essential drug
BACCALAUREATE]	PHARMACOTHERAPEUTICS-III - P	CO9	concept and rational drug therapy
PHARM.D[POST			
BACCALAUREATE]	HOSPITAL PHARMACY - T	CO1	Know various drug distribution methods
PHARM.D[POST			Know the professional practice management
BACCALAUREATE]	HOSPITAL PHARMACY - T	CO2	skills in hospital pharmacies
PHARM.D[POST			Know the manufacturing practices of various
BACCALAUREATE]	HOSPITAL PHARMACY - T	CO3	formulations in hospital set up
PHARM.D[POST			
BACCALAUREATE]	HOSPITAL PHARMACY - T	CO4	Appreciate the practice based research methods
PHARM.D[POST			Appreciate the stores management and
BACCALAUREATE]	HOSPITAL PHARMACY - T	CO5	inventory control.
PHARM.D[POST			Provide unbiased drug information to the
BACCALAUREATE]	HOSPITAL PHARMACY - T	CO6	doctors
PHARM.D[POST		1	
BACCALAUREATE]	HOSPITAL PHARMACY - P	CO1	Know various drug distribution methods
PHARM.D[POST			Know the professional practice management
BACCALAUREATE]	HOSPITAL PHARMACY - P	CO2	skills in hospital pharmacies
PHARM.D[POST			Know the manufacturing practices of various
BACCALAUREATE]	HOSPITAL PHARMACY - P	CO3	formulations in hospital set up
PHARM.D[POST			
BACCALAUREATE]	HOSPITAL PHARMACY - P	CO4	Appreciate the practice based research methods
PHARM.D[POST			Appreciate the practice based research methods
BACCALAUREATE]	HOSPITAL PHARMACY - P	CO5	inventory control.
PHARM.D[POST	HOSPITAL PHARMACY - P	CO6	Provide unbiased drug information to the
PHARIVI.D[PUSI		LUb	Provide unbiased drug information to the

BACCALAUREATE]			doctors
PHARM.D[POST			Identify medication errors and resolve drug
BACCALAUREATE]	CLINICAL PHARMACY - T	CO4	related problems
PHARM.D[POST			Detect, assess and monitor adverse drug
BACCALAUREATE]	CLINICAL PHARMACY - T	CO5	reaction
			Interpret selected laboratory results (as
PHARM.D[POST			monitoring parameters in therapeutics) of
BACCALAUREATE]	CLINICAL PHARMACY - T	C06	specific disease states
PHARM.D[POST			Retrieve, analyse, interpret and formulate drug
BACCALAUREATE]	CLINICAL PHARMACY - T	CO1	information
PHARM.D[POST			Monitor drug therapy of patient through
BACCALAUREATE]	CLINICAL PHARMACY - T	CO2	medication chart review and clinical review
PHARM.D[POST			Obtain medication history interview and
BACCALAUREATE]	CLINICAL PHARMACY - T	CO3	counsel the patients
PHARM.D[POST			
BACCALAUREATE]	CLINICAL PHARMACY - P	CO4	Patient medication history interview
PHARM.D[POST			Present Case studies related to laboratory
BACCALAUREATE]	CLINICAL PHARMACY - P	CO3	investigations
PHARM.D[POST	-		Ŭ Ŭ
BACCALAUREATE]	CLINICAL PHARMACY - P	CO5	Assessment based on class test and attendance
PHARM.D[POST	-		Understand and address clinical condition as a
BACCALAUREATE]	CLINICAL PHARMACY - P	CO6	clinical pharmacist
PHARM.D[POST			
BACCALAUREATE]	CLINICAL PHARMACY - P	C07	Improve proper documentation and record
PHARM.D[POST			
BACCALAUREATE]	CLINICAL PHARMACY - P	CO2	Patient medication counselling
PHARM.D[POST			
BACCALAUREATE]	CLINICAL PHARMACY - P	CO1	Answering drug information questions
PHARM.D[POST			Know the concept of new drug development
BACCALAUREATE]	CLINICAL RESEARCH	CO1	process.
PHARM.D[POST			Know the concept of clinical development of
BACCALAUREATE]	CLINICAL RESEARCH	CO2	drug
PHARM.D[POST			Understand the regulatory and ethical
BACCALAUREATE]	CLINICAL RESEARCH	C03	requirements.
PHARM.D[POST			Conduct the clinical trials in accordance to
BACCALAUREATE]	CLINICAL RESEARCH	CO4	regulatory and ethical requirements
PHARM.D[POST			Coordinate the clinical trials and promote
BACCALAUREATE]	CLINICAL RESEARCH	CO5	quality drug trial research.
PHARM.D[POST	PHARMACOEPIDEMIOLOGY		TO impart knowledge regarding various
BACCALAUREATE]	&PHARMACOECONOMICS	CO1	pharmacoepidemiological methods
PHARM.D[POST	PHARMACOEPIDEMIOLOGY		To identify and interpret outcome measures in
BACCALAUREATE]	&PHARMACOECONOMICS	CO2	pharmacoepidemiology
PHARM.D[POST	PHARMACOEPIDEMIOLOGY		understand the applications of
BACCALAUREATE]	&PHARMACOECONOMICS	CO3	pharmacoepidemiology in performing research
PHARM.D[POST	PHARMACOEPIDEMIOLOGY		To interpret the concept of risk involved in
BACCALAUREATE]	&PHARMACOECONOMICS	CO4	pharmacoepidemiology
			To identify the scope of pharmacoepidemiology
PHARM.D[POST	PHARMACOEPIDEMIOLOGY		in different areas such as drug safety monitoring
BACCALAUREATE]	&PHARMACOECONOMICS	CO5	and regulations
PHARM.D[POST	PHARMACOEPIDEMIOLOGY		To study about the different methods of
BACCALAUREATE]	&PHARMACOECONOMICS	CO6	pharmacoeconomics
PHARM.D[POST	PHARMACOEPIDEMIOLOGY		To learn different applications of
BACCALAUREATE]	&PHARMACOECONOMICS	C07	pharmacoeconomics
PHARM.D[POST	PHARMACOEPIDEMIOLOGY		To apply and interpret the different concepts of
BACCALAUREATE]	&PHARMACOECONOMICS	CO8	pharmacoeconomics
PHARM.D[POST	PHARMACOEPIDEMIOLOGY		To interpret the various outcome measures in
BACCALAUREATE]	&PHARMACOECONOMICS	CO9	pharmacoeconomics

PHARM.D[POST	PHARMACOEPIDEMIOLOGY		To identify the sources of data for
BACCALAUREATE]	&PHARMACOECONOMICS	CO10	pharmacoepidemiology studies
PHARM.D[POST			Design the drug therapy regimen for individual
BACCALAUREATE]	PHARMACOTHERAPEUTIC DRUG MONITORING	CO1	patient
			Interpret and correlate the plasma drug
PHARM.D[POST			concentration with patient's therapeutic
BACCALAUREATE]	PHARMACOTHERAPEUTIC DRUG MONITORING	CO2	outcome.
PHARM.D[POST			Recommend dosage adjustment for patients
BACCALAUREATE]	PHARMACOTHERAPEUTIC DRUG MONITORING	CO3	with renal/ hepatic impairment
PHARM.D[POST			
BACCALAUREATE]	PHARMACOTHERAPEUTIC DRUG MONITORING	CO4	Detect and manage drug –drug interaction
PHARM.D[POST			Know the manufacturing practices of various
BACCALAUREATE]	CLERKSHIP	CO3	formulations in hospital set up
PHARM.D[POST			Know the professional practice management
BACCALAUREATE]	CLERKSHIP	CO2	skills in hospital pharmacies
PHARM.D[POST			
BACCALAUREATE]	CLERKSHIP	CO1	Know various drug distribution methods
PHARM.D[POST			Appreciate the stores management and
BACCALAUREATE]	CLERKSHIP	CO5	inventory control.
PHARM.D[POST			Provide unbiased drug information to the
BACCALAUREATE]	CLERKSHIP	CO6	doctors
PHARM.D[POST			
BACCALAUREATE]	CLERKSHIP	CO4	Appreciate the practice based research methods
PHARM.D[POST		601	To impart knowledge and skills necessary for
BACCALAUREATE]	PHARMACOTHERAPEUTICS-I & II - T	C01	contribution to quality use of medicines
PHARM.D[POST BACCALAUREATE]	PHARMACOTHERAPEUTICS-I & II - T	CO2	To study the etiopathogenesis of selected diseases
PHARM.D[POST		02	uiseases
BACCALAUREATE]	PHARMACOTHERAPEUTICS-I & II - T	CO3	To study about the rationality of drug therapy
PHARM.D[POST			To study the therapeutic approach in the
BACCALAUREATE]	PHARMACOTHERAPEUTICS-I & II - T	CO4	management of diseases
PHARM.D[POST			
BACCALAUREATE]	PHARMACOTHERAPEUTICS-I & II - T	CO5	To study the controversies in drug therapy
PHARM.D[POST			To prepare the individualized therapeutic plan
BACCALAUREATE]	PHARMACOTHERAPEUTICS-I & II - T	CO6	based on diagnosis
PHARM.D[POST			To study the patient specific parameters in
BACCALAUREATE]	PHARMACOTHERAPEUTICS-I & II - T	CO7	initiating drug therapy
PHARM.D[POST			Distinguish the management strategies of
BACCALAUREATE]	PHARMACOTHERAPEUTICS-I & II - T	CO8	selected diseases in special populations.
PHARM.D[POST			Study in detail the concepts of essential drug
BACCALAUREATE]	PHARMACOTHERAPEUTICS-I & II - T	CO9	concept and rational drug therapy
			Assess drug safety monitoring, contraindications
PHARM.D[POST		CO10	and treatment outcomes and modify treatment
BACCALAUREATE]	PHARMACOTHERAPEUTICS-I & II - T	CO10	plan as needed To impart knowledge and skills necessary for
PHARM.D[POST BACCALAUREATE]	PHARMACOTHERAPEUTICS-I & II - P	C01	contribution to quality use of medicines
PHARM.D[POST			To study the pathophysiology of selected
BACCALAUREATE]	PHARMACOTHERAPEUTICS-I & II - P	CO2	diseases
PHARM.D[POST			
BACCALAUREATE]	PHARMACOTHERAPEUTICS-I & II - P	CO3	To study about the rationality of drug therapy
PHARM.D[POST			To study the therapeutic approach in the
BACCALAUREATE]	PHARMACOTHERAPEUTICS-I & II - P	CO4	management of diseases
PHARM.D[POST			
BACCALAUREATE]	PHARMACOTHERAPEUTICS-I & II - P	CO5	To study the controversies in drug therapy
PHARM.D[POST			To prepare the individualized therapeutic plan
BACCALAUREATE]	PHARMACOTHERAPEUTICS-I & II - P	CO6	based on diagnosis
PHARM.D[POST	PHARMACOTHERAPEUTICS-I & II - P	C07	To study the patient specific parameters in
		007	

BACCALAUREATE]			initiating drug therapy
			Monitoring of drug therapy such as alternatives,
PHARM.D[POST			therapeutic responses produced and adverse
BACCALAUREATE]	PHARMACOTHERAPEUTICS-I & II - P	CO8	effects
PHARM.D[POST			To study in detail the concepts of essential drug
BACCALAUREATE]	PHARMACOTHERAPEUTICS-I & II - P	CO9	concept and rational drug therapy
PHARM.D[POST			Knowledge on biopharmaceutics and ADME of
BACCALAUREATE]	BIOPHARMACEUTICS & PHARMACOKINETICS - T	CO1	drugs
			To introduce the basic concepts of
PHARM.D[POST			pharmacokinetics, compartmental and non-
BACCALAUREATE]	BIOPHARMACEUTICS & PHARMACOKINETICS - T	CO2	compartmental modelling
PHARM.D[POST			To understand Multiple dosage regimen, and
BACCALAUREATE]	BIOPHARMACEUTICS & PHARMACOKINETICS - T	CO3	non-linear pharmacokinetics
PHARM.D[POST			To understand the various concepts of Bio-
BACCALAUREATE]	BIOPHARMACEUTICS & PHARMACOKINETICS - T	CO4	availability and Bio-equivalence
PHARM.D[POST			To study dissolution improvement techniques
BACCALAUREATE]	BIOPHARMACEUTICS & PHARMACOKINETICS - P	CO5	and methods of comparison of profiles
PHARM.D[POST			
BACCALAUREATE]	BIOPHARMACEUTICS & PHARMACOKINETICS - P	CO6	Study of Protein binding
PHARM.D[POST			Determination of pharmacokinetic parameters
BACCALAUREATE]	BIOPHARMACEUTICS & PHARMACOKINETICS - P	C07	mathematically and graphically
PHARM.D[POST			To know the others poisoning i.e venom, plant
BACCALAUREATE]	CLINICAL TOXICOLOGY - T	CO4	and food poisoning
PHARM.D[POST			
BACCALAUREATE]	CLINICAL TOXICOLOGY - T	CO5	To know the substance abuse
PHARM.D[POST			To understand the supportive care in clinical
BACCALAUREATE]	CLINICAL TOXICOLOGY - T	CO2	toxicology
PHARM.D[POST			To know the Management of acute and chronic
BACCALAUREATE]	CLINICAL TOXICOLOGY - T	CO3	poisoning
PHARM.D[POST			To know the management of poisoning,
BACCALAUREATE]	CLINICAL TOXICOLOGY - T	CO1	antidotes