PROGRAM: PHARM D						
S.NO	Course/code	Gender	Environmental and sustainability	Human values	Professional qualification	
1.	Human anatomy and physiology (T1101)	Reproductive system a) Male and female reproductive system b) Their hormones – Physiology of menstruation c) Spermatogenesis & Oogenesis d) Sex determination (genetic basis) e) Pregnancy and maintenance and parturition f) Contraceptive devices			Drugs and athletics	
2.	Human anatomy and physiology (Practical) (T1108)	 Reproductive system. To perform pregnancy diagnosis test. 				
3.	Pharmaceutics (T1102)		ONEMACE	Incompatibilitie s: Introduction, classification and methods to overcome the Incompatibilitie	1.Historical back ground and development of profession of pharmacy and pharmaceutical Industry in brief. 2. Development of Indian Pharmacopoeia and introduction to	

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			S.	other Pharmacopoeias such as BP, USP, European Pharmacopoeia, Extra pharmacopoeia and Indian national formulary.
4.	Pharmaceutics (Practical) (T1109)		Incompatibilitie s a. Mixtures with Physical b. Chemical & Therapeutic incompatibilitie s. colorless bottles required for dispensing. Paper envelope (white), butter paper and white paper required for dispensing.	
5.	Medicinal biochemistry (T1103)			1. Introduction to clinical chemistry: Cell; composition; malfunction; Roll of the clinical chemistry laboratory. 2. The kidney function tests: Role of kidney; Laboratory tests for normal function includes- a) Urine analysis (macroscopic and physical examination, quantitative and Semiquantitative tests.) b) Test for NPN constituents. (Creatinine /urea clearance, determination of blood and urine

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					creatinine, urea and uric acid)
					c) Urine concentration test
					d) Urinary tract calculi. (stones)
					3. Liver function tests: Physiological
	П				role of liver, metabolic, storage,
					excretory, Protective, circulatory
					functions and function in blood
					coagulation.
					a) Test for hepatic dysfunction-Bile
					pigments metabolism.
					b) Test for hepatic function test-
		*			Serum bilirubin, urine bilirubin, and
					urine Urobilinogen.
					c) Dye tests of excretory function.
					d) Tests based upon abnormalities of
					serum proteins. Selected enzyme tests.
					4. Lipid profile tests: Lipoproteins,
					composition, functions. Determination
					of serum lipids, total cholesterol, HDL
					cholesterol, LDL cholesterol and
					Triglycerides.
6.	Pharmaceutical		Dental	Errors	
58	Inorganic chemistry		products		
	(T1105)		Radio		
			pharmaceutic		
			als.		
7.	Pathophysiology			1.Chemical	Cancer: differences between benign
	(T2101)			mediators in	and malignant tumors, Histological
	pe 10:			inflammation,	diagnosis of malignancy, invasions
				2.Drug	and metastasis, patterns of spread,
			APMICE	hypersensitivity	disturbances of growth of cells,
		[3]	15	3.Cigarrate	classification of tumors, general
			12		WX.

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			smoking and its effects 4.Biological effects and its radiation 5.Etiology and hazards of Obesity 6.Complication s of obesity 7.Diagnosis of cancer 8.Disorders of vitamins 9.Methods in pathology-laboratory values of clinical significance 10.Pathophysiol ogy of dengue hemorrhagic fever	biology of tumors, spread of malignant tumors, etiology and pathogenesis of cancer.
8.	Pharmaceutical microbiology (T2102)	P. Maering.	Study of infectious diseases: Typhoid, Tuberculosis, Malaria, Cholera,	1. Disinfectants- Study of disinfectants, antiseptics, fungicidal and veridical agents factors affecting their activation and mechanism of action. Evaluation of bactericidal, bacteristatic, virucidal activities, evaluation of preservatives

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				Hepatitis,	in pharmaceutical preparations.
				Meningitis,	2. Diagnostic tests : Schick's Test,
					Elisa test, Western Blot test, Southern
				Syphilis &	
				Gonorrhea and	Blot
				HIV.	PCR Widal, QBC, Mantaux Peripheral
					smear. Study of malarial parasite.
9.	Pharmaceutical			Diagnostic	
	microbiology			tests for some	
	(Practical)			common	
	(T2107)			diseases, Widal,	
	(12201)			malarial	
				parasite.	
				Indicate minor	
				experiment &	
				indicate major	
				experiment	
10.	Pharmacognosy and			Different	
10.	phytopharmaceuticals			methods of	
	(Practicals)			adulteration of	
	(T2108)			crude drugs	
11.	Pharmacology-I			1.Pre clinical	
11.	(T2104)			evaluations	
	(12101)			2.Drug	
				interactions	
12.	Community			1. Definition,	1.Community Pharmacy Management
12.	pharmacy			scope, of	a) Selection of site, Space layout, and
	(T2105)			community	design
	(12103)			pharmacy	b) Staff, Materials- coding, stocking
				Roles and	c) Legal requirements
		Tube		responsibilities	d) Maintenance of various registers
		AND THE PROPERTY OF THE PARTY O	PHATE	of Community	e) Use of Computers: Business and
		137	The same	pharmacist	health care soft wares
			0	Pharmaoist	Andrew Colo Colo (Colo)

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2. Prescriptions	2. Pharmaceutical care
– parts of	Definition and Principles of
prescription,	Pharmaceutical care.
legality &	3. Patient counseling:
identification of	Definition, outcomes, various stages,
medication	barriers, Strategies to overcome
related	barriers Patient information leaflets-
problems like	content, design, & layouts, advisory
drug	labels
interactions.	1
3. Patient	
medication	
adherence	
Definition,	
Factors	
affecting	
medication	
adherence, role	
of pharmacist	
in improving	
the adherence.	
4. Health	
screening	
services	
Definition,	
importance,	
methods for	
screening	
Blood pressure/	7
blood sugar/	
lung function	XOX
and Cholesterol	PRINCIPAL
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testing 5. OTC Medication-Definition, OTC medication list & Counseling 10 Health Education WHO Definition of health, and health promotion, care for children, pregnant & breast feeding women, and geriatric patients. Commonly occurring Communicable Diseases, causative agents, Clinical presentations and prevention of communicable Adity Pharmacy College SURAMPALEM.533 437 diseases -Tuberculosis,



			Hepatitis, Typhoid, Amoebiasis, Malaria, Leprosy, Syphilis, Gonorrhea and AIDS Balance diet, and treatment & prevention of deficiency disorders Family planning – role of pharmacist 6.code of ethics	
13	Pharmacology II (T3101) Pharmaceutical Analysis (T3102)		pharmacist.	Recombinant DNA technology: principles. Processes (gene transfer technology) and applications 1. GLP, ISO 9000. 1. Total quality management, quality review and documentation. 2. ICH- international conference for harmonization-guidelines.
15.	Pharmaco therapeutics II (T3103)	DITYAPHO	Infectious disease: Guidelines for the rational use	3. Regulatory control. PRINCIPAL PRINCIPAL Pharmacy College

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2				0	
		Se .		of antibiotics	
				and surgical	
				Prophylaxis,	
				Tuberculosis,	
				Meningitis,	-
				Respiratory	
				tract infections,	
				Gastroenteritis,	-
				Endocarditis,	
				Septicemia,	
		12		Urinary tract	
			11	infections,	
				Protozoal	
				infection-	
		,		Malaria,	
1				HIV &	
				Opportunistic	
	92			infections,	
	,			Fungal	
				infections, Viral	
				infections,	
				Gonarrhoea	
				and Syphilis	
16.	Pharmaceutical		Drugs and	1. Medicinal	
1.0.	jurisprudence		Cosmetics	and Toilet	
	(T3104)		Act, 1940, and	Preparation Act	
	(,	e e	its rules 1945.	-1955.	,
			Objectives,	Objectives,	
			Legal	Legal	7
			definition,	Definitions,	
		ADITYA PA	Study of	Licensing,	A CONTRACTOR OF THE PARTY OF TH
		18/	Schedule's	Bonded and	WILLIAM MINGE
		SUCY C			Pharmacy College

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		labelin	nce to ule B, Wa	on Bonded boratory, are Housing, anufacture of yurvedic, omeopathic, tent & oprietary eparations. Drug Price ntrol Order & ational Drug olicy current). Prevention f Cruelty to imals Act- 260. Patents & esign Act- 270. Brief study of escription oducts.	
17.	Medicinal chemistry (T3105)				Diagnostic agents
18.	Pharmaceutical formulation (T3106)		2 PH.	AKMACI.	 Pharmaceutical dosage form- concept and classification Tablets: Formulation of different types of tablets, tablet excipients,

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					granulation techniques quality control and evaluation of tablets. Tablet coating, Type of coating, quality control tests for coated tablet.
19.	Pharmaco therapeuitcs- III (Practical) (T4107)			Psychiatry disorders: Schizophrenia, Affective disorders, Anxiety disorders, Sleep disorders, Obsessive Compulsive disorders	
20.	Hospital pharmacy (T4102)	* DITY	1.Continuing professional development programs Education and training 2. Radio Pharmaceutic als – Handling and packaging	1. Hospital pharmacy-Organization and management a) Organizational structure-Staff, Infrastructure & work load statistics b) Management of materials and finance c) Roles & responsibilities	1. Hospital drug policy a) Pharmacy and Therapeutic committee (PTC) b) Hospital formulary c) Hospital committees - Infection committee - Research and ethical committee d) developing therapeutic guidelines e) Hospital pharmacy communication - Newsletter 2. Manufacture of Pharmaceutical preparations a) Sterile formulations – large and small volume parenterals b) Manufacture of Ointments, Liquids, and creams

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			of hospital	c) Manufacturing of Tablets, granules,
			pharmacist	capsules, and powders
			2. Hospital	d) Total parenteral nutrition
			pharmacy	
			services	
			a) Procurement	
			& warehousing	15
			of drugs and	
			Pharmaceuticals	
			b) Inventory	_
			control	
			Definition,	
*			various	
			methods of	
			Inventory	
	, 1		Control	
	f.		ABC, VED,	
			EOQ, Lead	
			time, safety	
			stock	
			c) Drug	
			distribution in	
			the hospital	
			i) Individual	
			prescription	
			method	
			ii) Floor stock	
			method	
			iii) Unit dose	
			drug	18
	/	DITYAPA	distribution	All .
	/+	4	method	PRINCIPAL College
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			d) Diatribution	
			d) Distribution	
			of Narcotic and	
			other controlled	
			substances	
			e) Central	
			sterile supply	
			services – Role	
			of pharmacist	
21.	Hospital pharmacy			1. Pharmacy and Therapeutics
1	(Practical)			committee - Organization, functions,
	(T4108)			and limitations.
	X-, 2003 57			2. Evaluation of prescriptions
				generated in hospital for drug
				interactions and find out the
				Suitable management.
22.	Clinical pharmacy		1. Patient data	1. Definitions, development and scope
	(T4103)		analysis	of clinical pharmacy
	(2.232)		The patient's	2. Introduction to daily activities of a
			case history, its	clinical pharmacist
			structure and	a. Drug therapy monitoring
			use in	(medication chart review, clinical
			evaluation of	review, pharmacist
			drug therapy &	interventions)
			Understanding	b. Ward round participation
		*	common	c. Adverse drug reaction management
			medical	d. Drug information and poisons
			abbreviations	information
			and	e. Medication history
			terminologies	f. Patient counseling
			used in clinical	g. Drug utilization evaluation (DUE)
		PHARM	practices.	and review (DUR)
		(a)	2. Clinical	h. Quality assurance of clinical
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laboratory tests used in the evaluation of disease states. and interpretation of test results Haematological, Liver function, Renal function, thyroid function tests b. Tests associated with cardiac disorders c. Fluid and electrolyte balance d. Microbiological culture sensitivity tests e. Pulmonary **Function Tests** 3. Drug & Poison information a. Introduction to drug information

pharmacy services 3. 6. Pharmacovigilance a. Scope, definition and aims of pharmacovigilance b. Adverse drug reactions -Classification, mechanism, predisposing factors, causality assessment [different scales used c. Reporting, evaluation, monitoring, preventing & management of ADRs d. Role of pharmacist in management of ADR. 4. Communication skills, including patient counseling techniques, medication history interview, presentation of cases. 5. Pharmaceutical care concepts 6. Critical evaluation of biomedical literature 7. Medication errors

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				resources	
				available	
				b. Systematic	
				approach in	
				answering DI	
6				queries	
				c. Critical	
				evaluation of	
				drug	
				information and	
				literature	
		1		d. Preparation	
				of written and	
				verbal reports	
				e. Establishing a	
				Drug	
		12		Information	
				Centre	
				f. Poisons	
				information-	
				organization &	
				information	
				resources	
23.	Clinical pharmacy				a. Answering drug information
45.	(Practical)				questions (4 Nos).
	(T4109)				b. Patient medication counseling (4
	(14109)				Nos).
					c. Case studies related to laboratory
					investigations (4 Nos).
					d. Patient medication history interview
				5.4	(3 Nos).
			di	Prince	(5 1103).

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