LESSON PLAN DIPLOMA IN PHARMACY 1ST YEAR

Name of the Faculty			Mr. Vishal Saini				
Discip		•	D. Pharmacy				
Year			Ist year				
Subjec	et		Pharmaceutics				
-	n Plan Durat	ion					
			75 Hours (2 Dec 2024 to 30 June 2025)				
	Load/week(l		Lecture- 03; Praction	cal- 03			
	Week		Theory		Practical		
	Lecture Topic/test			Practical	Topic		
1 st	Day 1st	Listowy of	the profession of	day 1st	To study the official		
1"		History of the profession of Pharmacy in India in relation to Pharmacy education, industry, pharmacy practice, and various professional associations.		1"	To study the official pharmacopeias, formularies with their handling and official references.		
	2 nd	and various					
	3 rd	Pharmacy as	a career,	<u> </u>			
2 nd	1 st	Pharmacopoe Introduction IP, BP, USP, and E Pharmacopoe	to , NF Extra	2 nd	To prepare and submit liquid oral simple syrup		
	2 nd	Salient features of Indian Pharmacopoeia		-			
	3 rd	Test of chapte					
3 rd	1 st 2 nd	Packaging selection crite advantages a glass, plastic	materials: Types, eria nd disadvantages of	3 rd	To prepare and submit castor oil emulsion		
	3 rd	U 1	nd disadvantages of				
4 th	1 st	Pharmaceutic organoleptic Organoleptic	al aids-Introduction, properties- coloring.	4 th	To prepare and submit cod liver oil emulsion		
	3 rd	Preservatives	<u> </u>	+			
5 th	1 st		ction- definition,	5 th	To prepare and submit calamine		
	2 nd	Size separati powder accor	on, classification of ding to IP		lotion		
	3 rd	Cyclone sepa	rator				
6 th	1 st	Sieves and sta	andards of sieves	6 th	To prepare and submit simple		
	2 nd	Revision		1	ointment base.		
	3 rd	Test					
7 th	1 st		puble cone blender,	7 th	To formulate and submit sulphur ointment		
	2 nd		ller mill and	1	Surphur Omemone		

	and	silversonmixer homogenizer.		
	3 rd	Assignment		
2 nd Membringlass fi		Filteration- theory of filteration, Membrane filteration, sintered glass filter	8 th	To formulate and submit cetrimide cream
	3 rd	Drying	-	
9 th 1 st		Tablets- basics of tablet formuation	9 th	To prepare and submit sodium alginate gel
	2 nd	Coated and uncoated	-	
	3 rd	Various modified tablets-		
1 Oth	1 ct	sustained release	1 Oth	
10 th	1 st 2 nd	1st Sessional Examination	10 th	TD 1 1 'c c c'
	3 rd	Extended, fast dissolving tablets	11 th	To prepare and submit turpentine liniment
4 4 th		Multilayered	-	
11 th	1 st	Revision		
	2 nd	Capsules- introduction	12th	To prepare effervescent powder
	3 rd	Hard gelatin capsule	=	granules
12 th	1 st	Soft gelatin capsules		
	2 nd	Revision	13th	To prepare and submit simple
	3 rd	Liquid oral preparations- introduction		dusting powder
13 th	1 st	solutions		
	2 nd	Syrups and elixirs	14 th	To prepare and submit sterile injection of normal saline
	3 rd	Emulsion	-	J
14 th	1 st	Suspensions		
	2 nd	Dry powder for reconstitution	15 th	To prepare and submit calcium gluconate injection
		Revision		g.woo
15 th	1 st	Test		
	2 nd	Topical preparation- intro and Ointment introduction	16 th	To prepare and submit paracetamol tablet
	3 rd	Ointment- types and bases		
16 th	1 st	Creams	_	
	2 nd	Paste	17 th	To formulate and submit cold cream
	3 rd	Gels	_	Cicam
17 th	1 st	Liniments and lotion	_	
	2 nd	2 nd Sessional		
	_	Examination		

	3 rd	Suppositories	19 th	To prepare and submit shampoo		
18 th	1 st	Pessaries				
	2 nd	Nasal preparations				
	3 rd	Eye preparations	20th	To prepare and submit lotion		
19 th	1 st	Powders and granules- introduction and insufflations				
	2 nd	Dusting powders, effervescent powders				
	3 rd	Effervescent granules	21 st	To prepare and submit toothpaste		
20 th	1 st	Sterile formulations- introduction, injectables	-	•		
	2 nd	Eye drops	-			
	3 rd	Eye ointments	22 nd	To demonstrate various stages of tablet manufacturing		
21 st	1 st	Immunological products- Introduction	-	processes		
	2 nd	Sera and their manufacturing method	-			
	3 rd	Vaccines and their manufacturing method	23rd	To study the method of usage and storage of inhalers		
22 nd	1 st	Toxoids and their manufacturing method				
	2 nd	Assignments				
	3 rd	Revision	24 th	To study the method of usage and storage of spacers		
23 rd	1 st	Quality control and assurance –definition,				
	2 nd	concepts Current cGMP	_			
	3 rd	Introduction to the concept of calibration	25 th	To study the method of usage and storage of insulin pens		
24 th	1 st	Introduction to the concept of validation	-	Power		
	2 nd	Novel drug delivery systems- introduction,	-			
	3 rd	Classification of NDDS	26 th	To demonstrate quality control test and evaluation of tablets		
25 th	1 st	Advantages and challenges	-			
	2 nd	3 rd Sessional Examination	28th			
	3 rd	Revision	29 th	To demonstrate quality control test and evaluation of emulsion		

Name of the Faculty			Mrs. Shashi				
Discipline			D. Pharmacy				
Year			Ist year				
Subject			Pharmaceutical Chemistry 75 Hours (2 Dec 2024 to 30 June 2025)				
Lesson Plan	Duration						
	/week(In hou		Lecture- 03; Practic		,		
Week	`	Theory			Practical		
	Lecture	Topic/test		Practical	Topic		
	Day	•		Day	_		
1 st	1 st	Introducti	on to	1 st	T 6 1 1 1 1 1 1		
		pharmace	utical chemistry		To perform the limit test		
	2 nd		and		for Chlorides		
_		objective					
	3 rd	Sources	and types of error				
2 nd	1 st	Sources	and types of error	2 nd	To perform the limit		
	2 nd	Impuritie			test for Sulphate		
-		pharmac					
	3 rd	Impuritie					
ard	1 ct	pharmac		ard	TD C 1 1		
3 rd	1 st	Impurities in		3 rd	To perform the limit test for Iron		
2 nd		pharmaceuticals Impurities in			test for from		
	Ziiu						
	3 rd	pharmaceuticals Volumetric analysis		1			
4 th	1 st		ric analysis	4 th	To perform the limit test		
7	2 nd		ric analysis	_ ' '	for Heavy metals		
	3 rd		ric analysis	-	Tor reavy metars		
5 th	_				T		
5	1 st	Gravimetric analysis-		5 th	To perform the identification tests for		
	2 nd	principle Method of gravimetric			Anions and Cations as		
	2	analysis	or gravimente		per IP		
	3 rd	Inorganio	 2		per II		
		pharmaceuticals-					
		haematin					
6 th	1 st	Haematin		6 th	To prepare and		
	2 nd	Gastrointestinal agents]	standardize		
	3 rd	Gastroin	testinal agents	1	sodium hydroxide		
					solution		
7 th	1 st	Topical a		7 th	To prepare and		
		Dental pr			standardize potassium		
	3 rd	Medicina	al gases		permanganate		
8 th	1 st	Introduct	tion to nemenclature	8 th	To perform assay of		
	2 nd		tion to nemenclature	1	ferrous sulphate by redox		
	3 rd	Anaesthe		+	titration		
	3	1 macsule					
9 th	1 st	Sedative	and hypnotics	9th	Viva voce		
	2 nd	Antipsyc					
	3 rd	Antipsyc		1			
		F J .					

10 th	1 st	Sessional	10 th		
	2 nd	Anticonvulsants	11 th	To perform assay	
	3 rd	Anticonvulsants		of Calcium	
11 th	1 st	Antidepressants		gluconate by complexometric titration	
	2 nd	Antidepressants	1.2th	To perform assay of	
	3 rd	Sympathomimetic drugs	- 12 th	sodium chloride by	
12 th	1 st	Sympathomimetic drugs		modified volhard's method	
	2 nd	Adrenergic antagonists	13 th	To perform assay of	
	3 rd	Adrenergic		Ascorbic acid by	
41-	4-4	antagonists		iodiometry	
13 th	1 st	Cholinergic drugs	1 4th	The Control of Control	
	2 nd	Cholinergic drugs	14 th	To perform the assay of	
	3 rd	Cholinergic drugs		Ibuprofen by alkalimetry	
14 th	1 st	Cholinergic blocking agents	4 -4h		
	2 nd	Cholinergic blocking agents	15 th	To determine melting point and boiling point of	
		Antiarrhythmic drugs		prepared organic	
15 th	1 st	Antiarrhythmic drugs		compounds	
	2 nd	Antihypertensive drugs	16 th	File checking	
	3 rd	Antihypertensive drugs			
16 th	1 st	Revision			
	2 nd	Test	17 th	Viva voce	
	3 rd	Anti-anginal agents	1/		
17 th	1 st	Diuretics			
	2 nd	Sessional	18 th		
	3 rd	Diuretics	19 th	To synthesize benzoic	
18 th	1 st	Hypoglycemic agents		acid from benzamide	
	2 nd	Hypoglycemic agents	20 th	To prepare picric acid	
	3 rd	Hypoglycemic agents		from phenol	
19 th	1 st	Analgesics, anti- inflammatory agents			
	2 nd	NSAIDs			
	3 rd	Anti-fungal agents	21st	To perform test of	
20 th	1 st	Revision		identification and purity	
	2 nd	Test		for aspirin	
	3 rd	Urinary tract anti-infective agents	22 nd	To perform test of identification and purity	
21st	1 st	Anti-tubercular drugs		for caffeine	
	2 nd	Antiviral agents			
	3 rd	Anti-malarial drugs	23 rd	Viva voice	
22 nd	1 st	Anti-malarial drugs			
	2 nd	Sulphonamides			
	3 rd	Antibiotics	24 th	To perform test of	
23 rd	1 st	Tetracyclines		identification and purity	
	2 nd	Revision		for paracetamol	
• 44	3rd	Macrolides	25 th	To perform test of	
24 th	1 st Miscellaneous		23	identification and purity	

	2 nd	Anti-neoplastic agents		for sulfanilamide
	3 rd	Anti-neoplastic agents 26 th		To perform systematic
25 th	1 st	Anti-neoplastic agents		qualitative analysis of unknown substances
	2 nd	3 rd Sessional		
	3 rd	Revision		

Name of the Faculty	Mrs. Sneha Singh
Discipline	D. Pharmacy
Year	I year
Subject	Social Pharmacy
Lesson PlanDuration	75 Hours (2 Dec 2024 to 30 June 2025)
Work Load/week(In hour)	Lecture- 03; Practical- 03

Week		Theory	Practical		
	Lecture Day	Topic/test	Practical Day	Topic	
	1 st	Introduction to social pharmacy	1 st	To study the national immunization schedule for	
1 st	2 nd	Definition, scope and role of pharmacist in public health		children and adult	
	3 rd	Concept of health, who- definition and various dimensions			
	1 st	Determinants and health indicators	2 nd	To study the vaccines not included in the national	
2 nd	2 nd	National health policy		immunization schedules	
	3 rd	Public and private health system			
	1 st	National health mission	3 rd	File check and viva	
3 rd	2 nd	Introduction to development goals			
	3 rd	Revision			
	1 st	Demography	4 th	To study about reproductive	
2 nd 3 rd		Family planning Methods of family planning		and child health in regards to nutritional aspects and relevant national health programmes	
		Mother and child health, importance of breast feeding	5 th	To study family planning devices	
5 th	2 nd	Effects of infant milk substitute and bottle feeding			
	3 rd	Overview of vaccines			
	1 st	Types of immunity	6 th	To perform microscopical	
6 th	2 nd	Immunization	1	observation of different	
<u> </u>	3 rd	Effects of environment on health- introduction		microbes using readymade slides	
	1 st Water pollution and Water borne disease		7 th	To study oral health and hygiene	
7 th	2 nd Air pollution 3 rd Noise pollution			nygiene	
1 st		Sevage and solid waste disposal	8 th	To study personal hygiene and etiquettes	
8 th	2 nd	Occupational illness		and enquenes	
	3 rd	Environmental pollution due to pharmaceuticals			
	1 st	Assignment	9 th	To study about the use and	

9 th	2 nd	Revision		disposal of various types of	
	3 rd	Test	_	masks, PPE gear	
	1 st	Sessional Examination	10 th	1 st Sessional Examination	
10 th	2 nd	Drugs of misuse and abuse	11 th	To study the various	
		psychotropics, narcotics, alcohol and tobacco		products used in menstrual hygiene	
	3rd	products.			
	3	Social impacts of these habits on social health			
	1 st	Revision			
11 th	2 nd	Basics of nutrition		To study the theory,	
	3 rd	micronutrients	12 th	basics, demonstrations	
	1 st	Macronutrients		of first aid for emergency diseases	
12 th	2 nd	Importance of water and fibres in diet	13 th	To study the emergency treatment	
	3 rd	Balance diet, malnutrition		for all medical	
	1 st	Nutrition deficiency diseases, ill effects of junk food		emergency cases	
13 th	2 nd	Calorific and nutritive value of various food, fortification of food	14 th	To learn the role of pharmacist and disaster management	
	3 rd	Introduction to food safety			
	1 st	Dietary supplement, nutraceuticals			
14 th	2 nd	Food suppliments and drug food interactions	15 th	To observe the marketed	
		Introduction to microbiology and common		preparations of disinfectants, antiseptics,	
		microorganisms		fumigating agents,	
	1 st	Introduction to microbiology and common		antilarval agents and mosquito repellants	
15 th	2 nd	microorganisms Introduction to microbiology	16 th		
15	Ziiu	Introduction to microbiology and common	10	To study water	
		microorganisms		purification techniques	
	3 rd	Introduction to epidermiology and its		using water testing kit	
	1 st	applications Understanding of	_		
16 th	2 nd	terms Revision		To stimulate the	
	3 rd	test	17 th	counseling of children	
	1 st	Respiratory infections		on junk food and balance diet using information education	
17 th	2 nd	Sessional Examination	18 th	and communication	
1 /	3rd	Respiratory infections	18 th	2 nd Sessional Examination To prepare charts on	
	1st	Respiratory infections	-	nutrition and its sources	
18 th	2 nd	Respiratory infections infections	20 th	To prepare the calculatory chart of caloric needs of	

	3 rd	Intestinal infection		different age groups
	1 st	Intestinal infection		
19 th	2 nd	Intestinal infection		
	3 rd	Intestinal infection	21 st	To prepare chart of
	1 st	Arthropod borne infections		glycemic index of foods
20 th	2 nd	Arthropod borne	-	
		infections		
	3 rd	Arthropod borne	22 nd	To identify various tobacco
		infections		products through charts and
	1 st	Arthropod borne infections		pictures
21st	2 nd	Surface infections		
	3 rd	Surface infections	23 rd	To study about tobacco
	1 st	STDs		cessation and counseling
22 nd	2 nd	STDs		
	3 rd	STDs	24 th	Viva-voice
	1 st	Introduction to		
		health systems		
23 rd	2 nd	Introduction to health		
		systems		
	3 rd	National health	25 th	File check
		programmes		
	1 st	National health		
		programmes	=	
24 th	2 nd	Pharmacoeconomics-		
	and	introduction	o eth	77' 77'
	3 rd	Basic terms and importance	26 th	Viva Voice
	1 st	Revision		
25 th	2 nd	3 rd Sessional		
	3 rd	Revision		

Name of the Faculty			Mr. KetanJeet			
Discipline	<u>J</u>		D. Pharmacy			
Year			Ist year			
Subject			Pharmacognosy			
Lesson PlanDu	ıration		75 Hours (2 Dec 2	024 to 30 June	2025)	
Work Load/w		ır)	Lecture- 03; Practi		/	
Week		Theory	, ,		Practical	
	Lecture	Topic/tes	st	Practical	Topic	
	Day	-		Day	-	
	1 st	Definiti	ons, history and	1 st	To perform morphological	
		scope		-	identification of ispaghula,	
1 st	2 nd		ns, History and		senna.	
	ard	scope		-		
	3 rd	Test		1		
	1 st		cation of drugs	2 nd	To perform	
2 nd	2 nd	-	etical and taxonimal	_	morphological	
	3 rd		ological and		identification of corriander, fennel	
	1 st		cological cal and	3 rd	File check and viva	
	1		taxonomical	3	THE CHECK and viva	
3 rd	2 nd		y control of crude	-		
		drugs-	introduction			
3 rd Adulteration of crude						
	drugs- introduction			4 th	To perform morphological identification of cardamom,	
-41			s of adulteration	4 th		
4 th 2 nd Ev 3 rd E		Evaluat Evalua	ion of crude drugs tion of crude drugs	_	ginger	
	1 st	Alkaloi	ds	Eth.	Viva-voice	
5 th	2 nd	Terpeno	oids	5 th		
	3 rd	Glycosi	des	-		
	1 st	Volatile	oil	6 th	To perform morphological	
6 th	2 nd	Tannins	}	-	identification of nutmeg,	
	3 rd	Resins		-	blackpepper	
	1 st	Revision		7 th	To perform morphological	
7 th	2 nd	Test		-	identification of clove,	
•	3 rd	Laxati	ves	-	rauwolfia.	
	-				Tuu vi oiliu.	
	1 st	Cardio	tonic	8 th	Viva voice	
8 th	2 nd	Carmina regulato	ative and GI ors			
	3 rd	Carmina regulato	ative and GI ors			
	1 st	Astringents		9 th	To perform morphological	
9 th	2 nd	Drugs acting on nervous		1	identification of gokhru,	
	system			punarnava.		
	3 rd	Revisio				
	1 st	Sessiona	l Examination	10 th	1st Sessional Examination	
10 th	2 nd	_	ting on nervous	11 th	To perform	
	and	system	· ·	_	morphological	
	3 rd	Antihype		_	identification of	
	1 st	Antitus	ssive		cinchona, agar	

11 th	2 nd	Antirheumatics	12 th	To perform
	3 rd	Antitumour	12"	morphological
	1 st	Anti-diabetics		identification of cinchona, agar
12 th	2 nd	Diuretics	13 th	To perform anatomical
	3 rd	Antiseptics and disinfectants		studies (transverse
12th	1 st	Revision		section) of ajwain, datura, cinnamon
13 th	2 nd	Test	14 th	To perform anatomical
	3 rd	Anti-malarials		studies (transverse
	1 st	Oxytocic		section) of ajwain, datura, cinnamon
14 th	2 nd	Vitamins	15 th	
		Enzymes		Viva-voce
	1 st	Pharmaceutical aids		
15 th	2 nd	Pharmaceutical aids	16 th	To perform anatomical
	3 rd	Pharmaceutical aids		studies (transverse
	1 st	Miscellaneous		section) of cinchona, coriander, ashwagandha
16 th	2 nd	Miscellaneous		To perform anatomical
	3 rd	Revision	17 th	studies (transverse
	1 st	Test		section) of cinchona, coriander, ashwagandha
17 th	2 nd	Sessional Examination	18 th	2 nd Sessional Examination
	3 rd	Surgical dressings-cotton, silk	19 th	To perform anatomical studies (transverse
	1 st	Wool and regenerated fibres		section) of liquorice,
18 th	2 nd	Surgical catgut and ligatures	20 th	To perform anatomical studies (transverse section)
	3 rd	Traditional system of medicines-introduction		of liquorice, clove
	1 st	Ayurveda, siddha		
19 th	2 nd	Unani and homeopathy		
	3 rd	Mrthods of preparation of arista, ashwa and gutika	21 st	To perform anatomical studies (transverse section)
	1 st	Taila, churna, lehya and bhasma		of curcuma, nux-vomica, vasaka
20 th	2 nd	Role of medicinal		vasaka
		plants in national		
		economy and their		
	- *	export potential		
	3 rd	Role of aromatic plants	22 nd	To perform anatomical
		in national economy and		studies (transverse section)
	1 ct	their export potential	-	of curcuma, nux-vomica,
	1 st	Introduction and therapeutic application — neutraceuticals,		vasaka
		antioxidants		

21 st	2 nd	Probiotic, prebiotics and dietary fibres		
	3 rd	Omega-3 fatty acids, spirulina	23 rd	To perform physical and chemical test for evaluation
	1 st	Carotenoids, soya and garlic		for asafoetida, castor oil
22 nd	2 nd	Revision		
	3 rd	Introduction to herbal formulations	24 th	Viva-voice
	1 st	Introduction to herbal formulations		
23 rd	2 nd	Introduction to herbal formulations		
	3 rd	Herbal cosmetics- introduction	25 th	To perform physical and chemical test for evaluation for agar, guar gum
	1 st	Alovera gel, almond oil		
24 th	2 nd	Lavender oil, olive oil		
	3 rd	Rosemary oil, sandalwood oil	26 th	Viva Voice
	1 st	Phytochemical investigation of drugs		
25 th	2 nd	Phytochemical investigation of drugs		
	3 rd	3 rd Sessional		

Name of the H	Faculty	Mrs. J	Mrs. Jyoti Yadav				
Discipline	<u>*</u>	D. Pha	D. Pharmacy				
Year		Ist yea	Ist year				
Subject		HAP					
Lesson PlanD	uration	75 Hot	75 Hours (2 Dec 2024 to 30 June 2025)				
Work Load/w	veek(In hou	ır) Lectur	Lecture- 03; Practical- 03				
Week		Theory			Practical		
	Lecture Day	Topic/test		Practical Day	Topic		
1 st	1 st	Scope of anatom		1 st	Study of microscopa		
	2 nd	Definition of var	rious terms		Study of microscope		
	3 rd	Structure of cell					
2 nd	1 st	Function and its	composion	2 nd	To perform general		
	2 nd	Brief			techniques for blood		
		introduction			collection		
		mitochondria					
	3 rd	and microsomes Introduction to t					
3 rd				ard			
3 ¹⁴	1 st 2 nd	Classification of Epithelial tissue		3 rd	To perform microscopic examination of epithelial		
	3 rd	Muscular tissue		_	tissues, cardiac muscles,		
	3	Musculai tissue		smooth muscles of pre			
					prepared slides		
4 th	1 st	Muscular tissue		4 th	To perform microscopic		
	2 nd	Connective tissu	ie		examination of epithelial tissues, cardiac muscles,		
	3 rd	Connective tissue	ie				
					smooth muscles of pre		
5 th	1 st	Nervous tissue			prepared slides Viva-voice		
3	2nd	Nervous tissue		5 th	viva-voice		
	3 rd	Structure of skele	oton system				
6 th	1 st	Structure of skele		6 th	To perform microscopic		
U	2 nd	Function of skele	•	0	examination of skeletal		
	3rd	Function of skele			muscles, connective		
	3	Tunction of skele	ton system		tissues and nervous tissues		
					of pre prepared slides		
7 th	1 st	Introduction to j		7 th	Viva-voice		
	2 nd	Function of joint	ts				
	3 rd	Introduction to j					
8 th	1 st	Function of joint	ts	8 th	To study the human		
	2 nd	Joint disorder			skeletal		
	3 rd	Joint disorder					
9 th	1 st	Introduction to b		9 th	Viva-voice		
	2 nd	Function of bloo	od				
	3 rd	Revision					
10 th	1 st	Sessional Examin		10th	1 st Sessional Examination		
	2 nd	Blood coagulation	on	11 th	To determine blood		
	3 rd	Blood coagulation	n		group, ESR.		
11 th	1 st	Blood coagulation	n				

	2 nd	Disorder of blood	12 th	Viva-voice	
	3 rd	Name and function	12"		
		of lymphatic system			
12 th	1 st	Name and function of			
		lymphatic system Structure and function of			
	2 nd	heart	13th	To determine	
	3 rd	Structure and function of heart		haemoglobin content of blood.	
13 th	1 st	Introduction to blood Pressure		of blood.	
	2 nd	Various parts of respiratory System	14th	To determine bleeding	
	3 rd	Function of respiratory		time clotting time	
14 th	1st	System Physiology of respiration	_		
14**	2nd	Various parts of urinary	15 th		
	2	System	15	Viva-voce	
		Structure and function of urinary system		viva voce	
15 th	1st	Introduction to edema	_		
10	2 nd	Structure of skeletal muscle	16 th	To determine WBC	
	3rd	Name of attachments and		count of blood	
		their functions			
16 th	1 st	Name of attachments and			
		their functions			
	2 nd	Name and position of various muscles	$17^{ m th}$	To determine RBC	
	3 rd	physiology of various	1 /	count of blood	
17 th	1 st	neuromuscular junctions physiology of various	-		
1 / "	130	neuromuscular junctions			
	2 nd	Sessional Examination	18 th	2 nd Sessional	
				Examination	
	3 rd	CNS	19 th	To determine and	
18 th	1 st	CNS		evaluate differential count of blood	
	2 nd	Brain and its parts	20 th	To record the	
	3 rd	Function and reflux action		pressure of blood	
19 th	1 st	ANS		in various	
	2 nd	Function and reflux action		postures	
	3 rd	ANS	21st	To record body	
20 th	1 st	Introduction to tongue		temperature, pulse	
	2 nd	Introduction to tongue		rate, heart rate and	
				respiratory rate	
	3 rd	Smell,ear	22 nd	To record pulse oxygen	
21 st	1 st	Smell,ear		(before and after exertion)	
	2 nd	Eye and skin physiology of Pain			
	3 rd	Introduction to digestive System	23 rd	To record force of	
22 nd	1 st	Function of digestive		expelled air using peak	
		system		flow meter	
	2 nd	Structure and function of Liver			
	3 rd	Structure and function of	24 th	To measure the height,	
		Liver		weight and BMI of the	
23 rd	1 st	Liver Physiology of digestion	_	weight and BMI of the body	

	3 rd	Endocrine glands	25 th	To study the various
24 th	1 st	Location of Endocrine crine gland	23	system and organs using chart, models and
	2 nd	Their functions		specimens
	3 rd	Reproductive system	26 th	Viva-voice
25 th	1 st	Reproductive system		
	2 nd	Reproductive system		
	3 rd	3 rd Sessional		

LESSON PLAN DIPLOMA IN PHARMACY 2nd YEAR

		Performa: Jhankar Co	ollege of Phari	nacv
		Lesson P		nucy
Name of	the faculty	Sneha Singh		
Disciplin		Pharmacy		
Semester		2 nd Year		
Subject		Pharmacotherapeutics		
Lesson p	lan	75 Hours (20 Aug 2024 to 30	June 2025)	
Duration	1			
	oad/week(In	Lecture- 03; Practical- 03		
hour)				
Week		Theory		Practical
	Lecture Day	Topic	Practical	Topic
1 st	1 st	Pharmacotherapeutics –	1 st	To study the Preparation and
		Introduction, scope, and		discussion of SOAP on
		objectives		Hypertension
	2 nd	Rational use of Medicines	2 nd	do
	3 rd	Evidence Based Medicine	3 rd	do
2 nd	1 st	Essential Medicines List	1 st	To study the Preparation and discussion of SOAP on Angina Pectoris.
	2 nd	Standard Treatment Guidelines (STGs)	2 nd	do
	3 rd	Revision	3 rd	do
3 rd	1 st	Cardiovascular System – Hypertension- Definition, Etiopathogenesis	1 st	To study the Preparation and discussion of SOAP on Myocardial infraction
	2 nd	Hypertension- Clinical manifestations, Management of the Diseases	2 nd	do
	3 rd	Angina and Myocardial infarction- Definition, Etiopathogenesis	3rd	do
4 th	1 st	Angina and Myocardial infarction- Clinical manifestations, Management of the Diseases	1 st	Viva voca
	2 nd	Hyperlipidaemia- Definition, Etiopathogenesis	2 nd	do
	3 rd	Hyperlipidaemia- Clinical manifestations, Management of theDiseases	3 rd	do
5 th	1 st	Congestive Heart Failure- Definition, Etiopathogenesis	1 st	To study the Preparation and discussion of SOAP onHyperlipidemia
	2 nd	Congestive Heart Failure- Clinical manifestations, Management of theDiseases	2 nd	do

	3 rd	Revision	3 rd	do
6 th	1 st	Respiratory System- Asthma- Definition, Etiopathogenesis	1 st	To study the Preparation and discussion of SOAP on Rheumatoid Arthritis
	2 nd	Asthma- Clinical manifestations, Management of the Diseases	2 nd	do
	3 rd	COPD- Definition, Etiopathogenesis	3 rd	do
7 th	1 st	COPD- Clinical manifestations, Management of the diseases	1 st	To study the Preparation and discussion of SOAP on Asthma
	2 nd	Endocrine System Diabetes- Definition, Etiopathogenesis	2 nd	do
	3 rd	Diabetes- Clinical manifestations, Management of the Diseases	3 rd	do
8 th	1 st	Hypothyroidism- Definition, Etiopathogenesis, Clinical manifestations, Management of the Diseases	1 st	Viva Voca
	2 nd	Hyperthyroidism- Definition, Etiopathogenesis, Clinical manifestations, Management of the Diseases	2 nd	do
	3 rd	Revision	3 rd	do
9 th	1 st	Central Nervous System- Epilepsy- Definition, Etiopathogenesis	1 st	To study the Preparation and discussion of SOAP onCOPD
	2 nd	Epilepsy-, Clinical manifestations, Management of the Diseases	2 nd	do
	3 rd	Parkinson's disease- Definition, Etiopathogenesis	3 rd	do
10 th	1 st	Parkinson's disease-, Clinical manifestations, Management of theDiseases	1 st	To study the Preparation and discussion of SOAP onDiabetes
	2 nd	Alzheimer's disease- Definition, Etiopathogenesis, Clinical manifestations, Management of theDiseases	2 nd	do
	3rd	Stroke- Definition, Etiopathogenesis, Clinical manifestations, Management of the Diseases	3 rd	do
11 th	1 st	Migraine- Definition, Etiopathogenesis, Clinical manifestations, Management of theDiseases	1 st	To study the Preparation and discussion of SOAP onEpilepsy
	2 nd	Revision	2 nd	do
	3 rd	Gastro oesophageal reflux	3 rd	do

		disease- Definition,		
1.0th	1 st	Etiopathogenesis	1 et	To sto be the Door and on and
12 th	1 st	Gastro oesophageal reflux	1 st	To study the Preparation and
		disease- Clinical		discussion of SOAP on Stroke
		manifestations, Management		
	ad	of theDiseases	and	
	2 nd	Peptic Ulcer Disease-	2 nd	do
	I	Definition, Etiopathogenesis	and	
	3 rd	Peptic Ulcer Disease- Clinical	3 rd	do
		manifestations, Management		
4 Oth	4 st	of theDiseases	4 st	
13 th	1 st	Alcoholic liver disease-	1 st	To study the Preparation and
		Definition, Etiopathogenesis		discussion of SOAP
			- 1	onDepression
	2 nd	Alcoholic liver disease-	3 rd	do
		Clinical manifestations,		
		Management of theDiseases		
	3 rd	Inflammatory Bowel		do
		Diseases- Definition,		
		Etiopathogenesis		
14 th	1 st	Inflammatory Bowel	1 st	To study the Preparation and
		Diseases- Clinical		discussion of SOAP
		manifestations, Management		onTuberculosis
		of theDiseases		
	2 nd	Revision	2 nd	do
	3 rd	Iron deficiency anaemia-	3 rd	do
		Etiopathogenesis		
15 th	1 st	Iron deficiency anaemia-	1 st	To study the Preparation and
		Clinical manifestations,		discussion of SOAP on Anemia
		Management		
	2 nd	Iron deficiency anaemia-	2 nd	do
		Etiopathogenesis		
	3 rd	Iron deficiency anaemia-	3 rd	do
		Clinical manifestations,		
		Management		
16 th	1 st	Tuberculosis	1 st	Viva voce
	2 nd	Pneumonia	2 nd	do
	3 rd	Urinary tract infections	3 rd	do
1.77th	4.ct	TT	4.et	The state of the s
17 th	1 st	Hepatitis	1 st	To study the Preparation and
				discussion of SOAP
				onConjunctivitis viral infection
	2 nd	Gonorrhoea and Syphilis	2 nd	do
	- *			
	3 rd	Malaria	3 rd	do
18 th	1 st	Molorio	1 Sf	To attack the Decree of the set of
18 th	1 st	Malaria	1 st	To study the Preparation and
				discussion of SOAP on
	And .	IIII	and	Psoriasis
	2 nd	HIV and Opportunistic	2 nd	do
		infections	01	
	3 rd	Viral Infections (SARS,	3 rd	do
		CoV2)		

19 th	1 st	Revision	1 st	Viva voce
	2 nd	Rheumatoid arthritis	2 nd	do
			_	
2 Oth	3 rd	Osteoarthritis	3rd	do
20 th	1 st	Osteoarthritis- Definition, Etiopathogenesis, Clinical manifestations, Management	1 st	To perform the study of medication condition, life style modification, monitoring parameters and maintaining documentation of patient counselling on Rheumatoid Arthritis
	2 nd	Psoriasis- Definition, Etiopathogenesis, Clinical manifestations, Management	2 nd	do
	3 rd	Scabies- Definition, Etiopathogenesis, Clinical manifestations, Management	3 rd	do
21 st	1 st	Eczema- Definition, Etiopathogenesis, Clinical manifestations, Management	1 st	To perform the study of medication condition, life style modification, monitoring parameters and maintaining documentation of patient counselling on Hypertension
	2 nd	Psychiatric Disorders- Depression, Definition, Etiopathogenesis, Clinical manifestations, Management	2 nd	do
	3 rd	Anxiety- Definition, Etiopathogenesis, Clinical manifestations, Management	3 rd	do
22 nd	1 st	Psychosis- Definition, Etiopathogenesis, Clinical manifestations, Management	1 st	To perform the study of medication condition, life style modification, monitoring parameters and maintaining documentation of patient counselling on Asthma
	2 nd	Psychosis- Definition, Etiopathogenesis, Clinical manifestations, Management Revision	2 nd	do
23 rd	1 st	Conjunctivitis (bacterial and)- Definition, Etiopathogenesis, Clinical manifestations, Management	1 st	To perform the study of medication condition, life style modification, monitoring parameters and maintaining documentation of patient counselling on Stroke
	2 nd	Conjunctivitis (viral)- Definition, Etiopathogenesis, Clinical manifestations, Management	2 nd	do
	3 rd	Glaucoma- Definition, Etiopathogenesis, Clinical manifestations, Management	3 rd	do

24 th	1 st	Anti-microbial Resistance	1 st	To perform the study of medication condition, life style modification, monitoring parameters and maintaining documentation of patient counselling on Tuberculosis
	2 nd	Anti-microbial Resistance	2 nd	do
	3 rd	Polycystic Ovary Syndrome- Definition, Etiopathogenesis, Clinical manifestations, Management	3 rd	do
25 th	1 st	Dysmenorrhe- Definition, Etiopathogenesis, Clinical manifestations, Management a	1 st	To performed the dose calculation for the paediatrics and geriatric patient.
	2 nd	Premenstrual Syndrome- Definition, Etiopathogenesis, Clinical manifestations, Management	2 nd	do
	3 rd	Revision	3 rd	do

		Lesson Plan	1			
Name of the faculty		Shashi				
Discipline		Pharmacy				
Semester		2 nd Year				
Subject		Biochemistry and Clinical Pat	hology			
Lesson plan	n Duration	75 Hours (20 Aug 2024 to 30 s	June 2025)			
Work Load	d/week(In	Lecture- 03; Practical- 09 Hrs				
hour)					
Week		Theory		Practical		
	Lecture Day	Topic	Practical Day	Topic		
1 st	1 st	Introduction to biochemistry: Scope of biochemistry in Pharmacy	1 st	1 st		
	2 nd	Cell and its biochemical organization.	2 nd	2 nd		
	3rd	Carbohydrates-Definition, classification with examples, chemicalProperties	3 rd	3 rd		
2 nd	1 st	Monosaccharides - Structure of glucose, fructose, and galactose	1 st	1 st		
	2 nd	Disaccharides - structure of maltose, lactose, and Sucrose	2 nd	2 nd		

	3 rd	Polysaccharides - chemical	3 rd	3 rd
		nature of starch and		
_		Glycogen		
3 rd	1 st	Qualitative tests and	1 st	1 st
		biological role of		
	and	carbohydrates	and	and
	2 nd	Proteins-Definition,	2 nd	2 nd
		classification of proteins		
		based oncomposition		
		and solubility with		
	and	examples	and	and
	3 rd	Definition, classification of	3 rd	3 rd
		amino acids based on		
		chemical nature and		
		nutritional requirements		
		with		
4 th	1 et	examples	1 st	1st
4"	1 st	Structure of proteins (four	1 st	1 st
		levels of organization of		
	2 nd	protein structure)	2 nd	2nd
	Zna	Qualitative tests and	Ziiu	Ziiu
		biological role of		
		proteins and		
	3 rd	amino acids	3 rd	and
	3 ¹⁴	Diseases related to	3 ¹⁰	3 rd
		malnutrition of proteins.		
5 th	1 st	Class Test	1 st	1 st
	2 nd	Lipids- Definition,	2 nd	2 nd
		classification with	_	2
		examples		
	3 rd	Structure and properties of	3 rd	3 rd
		triglycerides (oils and		
		fats)		
6 th	1 st	Fatty acid classification -	1 st	1 st
		Based on chemical and		_
		nutritional requirements		
		with		
		Examples		
	2 nd	Structure and functions of	2 nd	2 nd
		cholesterol in the body		
	3 rd	Lipoproteins - types,	3 rd	3 rd
		composition and		
		functions in theBody		
7 th	1 st	Qualitative tests and functions	1 st	1 st
		of lipids		
	2 nd	Nucleic acids-Definition,	2 nd	2 nd
		purine and pyrimidine		
		bases		
	3 rd	Components of publications	3 rd	3rd
	3	Components of nucleosides and nucleotides with	3-"	3
		examples		

8 th	1 st	Structure of DNA (Watson and Crick model)	1 st	1 st
	2 nd	RNA and their functions	2 nd	2 nd
	3 rd	Enzymes-Definition, properties and IUB and MB classification	3 rd	3rd
9 th	1 st	Factors affecting enzyme activity	1 st	1 st
	2 nd	Mechanism of action of enzymes, Enzyme inhibitors	2 nd	2 nd
	3rd	Therapeutic and pharmaceutical importance of Enzymes	3 rd	3rd
10 th	1 st	Vitamins-Definition and classification with examples	1 st	1 st
	2 nd	Sources, chemical nature, functions	2 nd	2 nd
	3 rd	Coenzyme form,recommended dietary requirements	3 rd	3 rd
11 th	1 st	Deficiency diseases of fat	1 st	1 st
	2 nd	Water-soluble vitamins	2 nd	2 nd
	3 rd	Metabolism (Study of cycle/pathways without chemical structures)	3 rd	3 rd
12 th	1 st	Metabolism of Carbohydrates: Glycolysis	1 st	1 st
	2 nd	TCA cycleand glycogen metabolism, regulation of blood glucose	2 nd	2 nd
	3 rd	Diseases related to abnormal metabolism of Carbohydrates	3 rd	3 rd
13 th	1 st	Metabolism of lipids: Lipolysis, β-oxidation of Fatty acid	1 st	1 st
	2 nd	Palmitic acid, ketogenesis and ketolysis.	3 rd	3 rd
	3 rd	Diseases related to abnormal metabolism of lipids such as Ketoacidosis, Fatty liver, Hypercholesterolemia		
14 th	1 st	Metabolism of Amino acids Proteins: General reactions of amino acids	1 st	1 st
	2 nd	Its significance— Transamination,	2 nd	2 nd

		deamination, Urea cycle		
	3 rd	Decarboxylation. Diseases	3 rd	3rd
		related to		3
		abnormalmetabolism of		
		amino acids		
15 th	1st	Disorders of ammonia	1 st	1st
13	1	metabolism, phenylketonuria,	1	1
	2 nd	Alkaptonuria	2 nd	2nd
		Aikaptoliulla	2	2
	3 rd	Biological oxidation:	3 rd	3 rd
16 th	1st	Oxidative phosphorylation	1 st	1 st
10	2 nd	Revision	2 nd	2 nd
	3 rd		3 rd	3 rd
	3.4	Minerals: Types, Functions,	314	314
1.77th	1 st	Deficiency diseases	1 ct	1 et
17 th	1 st	Recommended dietary	1 st	1 st
	2nd	requirements	2 nd	2 nd
	Ziid	Water and Electrolytes	Ziid	Ziid
		Distribution, functions of		
	ard	water in the body	ard	and
1.0th	3 rd	Water turnover and balance	3 rd	3rd
18 th	1 st	Electrolyte composition of the	1 st	1 st
	and	body fluids	and	and
	2 nd	Dehydration, causes of	2 nd	2 nd
		dehydration and	1	23
	3 rd	Introduction to Biotechnology	3 rd	3 rd
19 th	1 st	Organ function testsFunctions	1 st	1 st
	01	of kidney	a J	
	2 nd	Routinely performed tests to	2 nd	2 nd
		assess the functions of kidney		
		and their clinical		
	- 1	significances	- 1	
	3 rd	Functions of liver and	3 rd	3 rd
		routinely performed		
		tests to		
1		assess the functions of liver		
20 th	1 st	Their clinicalsignificance	1 st	1 st
	2 nd	Lipid profile tests	2 nd	2 nd
	3 rd	Its clinical significances	3 rd	3 rd
21st	1 st	Revision	1 st	Determination of constituents
				of blood/serum
				(simulated) (Creatine,
				glucose, cholesterol,
				Calcium, Urea,
				SGOT/SGPT)
	2 nd	Oral rehydration therapy	2 nd	do
	3 rd	Dietaryintake of electrolyte	3 rd	do
		and Electrolyte balance	3	-40
22 nd	1st	Dietaryintake of electrolyte	1 st	Determination of constituents
22	1	and Electrolyte balance	1	of blood/serum
		and Electroryte varance		(simulated) (Creatine,
				glucose, cholesterol,
				Calcium, Urea,
				SGOT/SGPT)
	2 nd	Flactron transport chain	2 nd	do
	4 -	Electron transport chain	4	uu

	3 rd	Jaundice.	3 rd	do
23 rd	1 st	Introduction to Pathology of Blood and Urine	1 st	Determination of constituents of blood/serum (simulated) (Creatine, glucose,cholesterol, Calcium, Urea, SGOT/SGPT)
	2 nd	Lymphocytes	2 nd	do
	3 rd	Platelets	3 rd	do
24 th	1 st	Their role in health and disease	1 st	Determination of constituents of blood/serum (simulated) (Creatine, glucose,cholesterol, Calcium, Urea, SGOT/SGPT)
	2 nd	Erythrocytes	2 nd	do
	3 rd	Abnormal cells and their significance	3 rd	do
25 th	1 st	Normal and Abnormal constituents of Urine	1 st	Study the hydrolysis of starch from acid and salivary amylase enzyme
	2 nd	TheirSignificance	2 nd	do
	3 rd	Revision	3 rd	do

		Performa: Jhankar College of Pharmacy
		Lesson Plan
Name of t	he faculty	Jyoti Yadav
Discipline		Pharmacy
Semester		2 nd Year
Subject		Pharmacy Law & Ethics
	an Duration	75 Hours (20 Aug 2024 to 30 June 2025)
Work Loa	nd/week(In	Lecture- 03
hour)		
Week		Theory
	Lecture	Topic
	Day	
1 st	1 st	General Principles of Law, History
	2 nd	Various Acts related to Drugs and Pharmacy profession
	3 rd	Pharmacy Act 1948 and Rules: Objectives, Definitions, Pharmacy
		Council of India
2 nd	1 st	Its constitution and functions
	2 nd	Education Regulations
	3 rd	Revision
3 rd	1 st	State and Joint state pharmacy councils
	2 nd	Registration of Pharmacists, Offences andPenalties. Pharmacy Practice Regulations 2015
	3 rd	Drugs and Cosmetics Act 1940 and Rules 1945 and New Amendments: Objectives, Definitions
4 th	1 st	Legal definitions of schedules to the Act and Rules

	2 nd	Import of drugs ,Classes of drugs and cosmetics
	3 rd	Manufacture of drugs – Prohibition of manufacture and sale of certain
		drugs
5 th	1 st	Conditions for grant of license
	2 nd	Conditions of license for manufacture of drugs
	3 rd	Revision
6 th	1st	
0	2 nd	Manufacture of drugs for test Examination and analysis, manufacture of new drug
	3rd	Loan license and repackinglicense.
7 th	1 st	Study of schedule C and C1
,	2 nd	Schedule H, H1
	3 rd	Schedule G, K
8 th	1 st	Schedule P, M
· ·	2 nd	Schedule N, and X.
	3 rd	Revision
9 th	1 st	Sale of Drugs – Wholesale, Retail sale and Restrictedlicense
	2 nd	Records to be kept in a pharmacy
	3 rd	Drugs Prohibited for manufacture and sale in India
10 th	1 st	Administration of the Act and Rules Drugs Technical
		Advisory Board, Central Drugs Laboratory
	2 nd	Drugs Consultative Committee
	3 rd	Government analysts, licensing authorities
11 th	1 st	Controlling authorities, Drug Inspectors
	2 nd	Narcotic Drugs and Psychotropic Substances Act 1985and Rules
		Objectives, Definitions, Authorities and Officers
	3 rd	Prohibition, Control and Regulation, Offences and Penalties.
12 th	1 st	Drugs and Magic Remedies (ObjectionableAdvertisements) Act 1954
		Objectives, Definitions, Prohibition of certainadvertisements,
	2 nd	Classes of Exempted advertisements, Offences and Penalties.
	3 rd	Class Test
13 th	1 st	Prevention of Cruelty to Animals Act-1960: Objectives, Definitions,
		CPCSEA - brief overview, Institutional Animal Ethics Committee,
	01	Breeding and Stocking of Animals
	2 nd	Performance of Experiments, Transfer and Acquisition of animals for
		experiment, Records, Power to suspend or revoke registration, Offences
	ard	and Penalties.
14 th	3 rd 1 st	Poisons Act-1919: Introduction, objective, definition, possession,
14"	2 nd	Possession for sales and sale of any poison, import of poisons
	2	FSSAI (Food Safety and Standards Authority of India) Act and Rules:
	3 rd	brief overview and aspects related tomanufacture, Storage, sale, and labelling of Food Supplements
15 th	1 st	National Pharmaceutical Pricing Authority: Drugs PriceControl Order
13	1	(DPCO) - 2013. Objectives, Definitions
	2 nd	Sale prices of bulk drugs, Retail price of formulations,
	3 rd	Revision
16 th	1 st	Retail price and ceiling price of scheduled formulations,
	2 nd	Pharmaceutical Policy 2002
	3 rd	National List of Essential Medicines (NLEM)
17 th	1 st	Code of Pharmaceutical Ethics: Definition, ethicalprinciples
	2 nd	Ethical problem solving, registration
	3 rd	Code of ethics for Pharmacist in relation to his job
18 th	1 st	Trade, medical profession and his profession
	2 nd	Pharmacist's oath

	3 rd	Class Test	
19 th	1 st	Medical Termination of Pregnancy Act and Rules basic understanding	
	2 nd	MTP salient features, and Amendments	
	3 rd	Central Drugs Standards Control Organization (CDSCO)	
		Indian Pharmacopoeia Commission (IPC)	
20 th	1 st	Good Regulatory practices (documentation, licenses, Renewals,	
		e governance) in Community Pharmacy, Wholesale business,	
	2 nd	Hospital pharmacy, Pharma Manufacturing,	
	3 rd	Inspections, import, export of drugs and medical devices	
21st	1 st	Introduction to BCS system of classification, Basic concepts of Clinical	
		Trials	
	2 nd	ANDA, NDA, New Drug development,	
	3 rd	New Drugs and Clinical Trials Rules, 2019.	
22 nd	1 st	Brand v/s Generic, Trade name concept,	
	2 nd	Introduction to Patent Law and Intellectual Property Rights, Emerge	
		Use Authorization	
	3 rd	Revision	
23 rd	1 st	Blood bank – basic requirements and functions	
	2 nd	Clinical Establishment Act and Rules – Aspects related toPharmacy	
	3 rd	Biomedical Waste Management Rules 2016 BasicAspects.	
24 th	1 st	Aspects related to pharma manufacture todisposal of pharma / medical	
		waste at homes, pharmacies and hospitals	
	2 nd	Bioethics - Basic concepts, history and principles. Briefoverview of	
		ICMR's	
	3 rd	National Ethical Guidelines for Biomedical and Health Research	
		involving human participants	
25 th	1 st	Introduction to the Consumer Protection Act	
	2 nd	Introduction to the Disaster Management Act	
	3 rd	Medical Devices – Categorization, basic aspects related to manufacture	
		and sale	

Lesson Plan

Name of the Faculty	Mr. Umesh Yadav
Discipline	D. Pharmacy
Year	IIndyear
Subject	Hospital and clinical pharmacy
Lesson PlanDuration	75 Hours (20 Aug 2024 to 30 June 2025)

Work load (Lecture/practical) per week (in hrs):

Week		Theory	Practical	
Week	Theory	Topic/test	Practical Day	Topic
1 st	Lecture Day 1st 2nd	Hospitals Definition, Function, Classifications based on various criteria, organization. Management and Health delivery system in India. Hospital Pharmacy: (a) DefinitionFunctions and objectivesofHospital Pharmaceutical services.		Introduction to theHCP
	3 rd	Test		To study the
2 nd	1 st	Location, Layout, Flow chart of	-	

		material and men.	agnetical and
	2 nd	Personnel and facilities requirements including equipments based on individual and basic needs.	construction and working of hot air oven
	3 rd	Requirements and abilities required for Hospital pharmacists.	To prepare 100 ml of 5% dextrose injection
3rd	1 st	Drug Distribution system in Hospitals:(a) Out –patient services. Inpatient services –(a) types of services(b)detaileddiscussionofunit Dosesystem	· · · · · · · · · · · · · · · · · · ·
	2 nd	Floor ward stock system, Satellite pharmacy services, Central sterile services, Bed Side Pharmacy.	
	3 rd	Manufacturing:(a) Economical considerations, estimation ofdemand.	To study the construction
4 th	1 st	(b) Sterile manufacture-large and small volume parenterals, facilities, requirements, layout production planning, man-power requirements. (c)Non-sterile manufacture – Liquid orals, externals-bulk concentrates.	and working of autoclave
	3 rd	Test	To design patient and
5 th	1 st	(d)Procurement of stores and testing of rawmaterials.	physician information leaflet for the drug
	2 nd	Nomenclature and uses of surgical instruments and Hospital Equipments and healthaccessories.	salbutamol
6 th	3 rd 1 st	Revision P.T.C (PharmacyTherapeutic Committee),	To design patient and physician information leaflet for the drug
	2 nd	Hospital Formulary System and their organization	Rifampicin
	3 rd	Functioning and composition of hospitalformulary.	To design patient and physician information
7 th	1 st	Drug Information service	leaflet for the drug
	2 nd	Drug Information Bulletin	Omeprazole
	3 rd	Revision	Viva Voice
8 th	1 st	Introduction to Clinical Pharmacy Practice – Definition, scope.	
	2 nd	Introduction to Clinical Pharmacy Practice – Definition, scope.	
	3 rd	Modern dispensing aspects	Sterlization of
9 th	1 st 2 nd	medication history Revision	glasswares and surgical instruments
	3 rd	1 st Sessional Examination	
10 th	1 st	Patient counseling	
-	2 nd	Advice for the use of common drugs	Testing of water for injection used in the

			preparation of transfusion fluid
	3 rd	Common daily terminology used in the Practice of Medicine.	
11 th	1 st	Common daily terminology used in the Practice of Medicine.	Testing of dextrose as
	2 nd	Surgical dressing like cotton, gauze, bandages and adhesive tapes	raw material used in the preparation of transfusion fluid.
	3 rd	Pharmacopeial tests of surgical dressings	Testing of mannitol as
12 th	1 st	I.V sets B.G sets, Ryals tubes Catheters, Syringes	raw material used in the preparation of transfusion fluid.
	3 rd	Test	Testing of potassium as raw material used in the preparation of transfusion fluid.
13 th	1 st 2 nd	Common terminologies used Diseases manifestationsand syndromes of Hepatitis	
	3 rd	Diseases manifestations and syndromes of Hypertension	To carry out hydrolytic test on glass bottles
14 th	1 st	Diseases manifestationsand syndromes of Angina Diseases manifestationsand	
	2 nd	syndromes of Arrythmia 3 rd	
15 th	1 st	Diseases manifestations and	
	2 nd	syndromes of Tuberculosis Diseases manifestations and syndromes of Diabeties	
	3 rd	Peptic ulcer	Viva voice
16 th	1 st	Epilepsy	
	2 nd	Revision	
17 th	3 rd 1 st	2 nd Sessional Examination Diseases manifestationsand	
	2 nd	syndromes of Rheumatoidarthritis Treatment strategies for peptic ulcer	
	3 rd	and diabeties Physiological parameters with their significance	Testing of adsorbent cotton for acidity and alkanity
18 th	1 st	Physiological parameters with their significance	An introduction to the
	2 nd	Revision	aseptic room and
	3rd	Introduction to drug interaction	construction and working of laminar air flow
19 th	1 st	Drug interactions significance	To perform tests for
	2 nd	Mechanisms involved in drug- drug and drug and food interaction	Sterlity testing
	3 rd	Drug –drug interaction with reference toanalgesics	

20 th	1 st	Drug –drug interaction with	Sterlity testing by
	2 nd	reference todiuretics Drug –drug interaction with reference toCardiovascular	turbidetric method
	3 rd	Revision	
21 st	1 st	Drug –drug interaction with reference to gastrointestinal agents	Viva Voice
	2 nd	Vitamins and oral hypoglycemic agents	
	3 rd	Adverse Drug Reactions	
22 nd	1 st	Adverse Drug Reactions and their significance	Viva Voice
	2 nd	Drug induced diseases	
	3 rd	Teratogenecity	
23 rd	1 st	Drugs in Clinical Toxicity – Introduction, general treatment of poisoning,	To prepare culture media for microbial
	2 nd	Revision	growth
	3 rd	systematic antidotes	
24 th	1 st	Treatment of insecticide poisoning, heavy metal poison	To prepare saubords
	2 nd	Narcotic drugs	agar media for
	3 rd	Barbiturate, Organophosphourspoisons	microbial growth
25 th	1 st	Drug dependences, Drug abuse, addictive drugs and their treatment, complications	To prepare fluid thiogycollate media for
	2 nd	Bio-availability of drugs, including	microbial growth
		factors	
	3 rd	3 rd Sessional Examination	

Lesson Plan

Name of the Faculty	Mrs. Jyoti Yadav	
Discipline	D. Pharmacy	
Year	IInd year	
Subject	Pharmacology	
Lesson PlanDuration	75 Hours (20 Aug 2024 to 30 June 2025)	

Work load (Lecture/practical) per week (in hrs):

Week		Theory	Practical		
	Lecture Day	Topic/test	Practical Day	Topic	
1 st	1 st	Introduction to Pharmacology, scope of Pharmacology- introduction, pharmacokinetics & pharmacodynamics& scope of pharmacology.		Introduction to pharmacology & toxicology laboratory.	
	2 nd	Routes of administration of drugs, their advantages and disadvantages-Enteral route,			
	3 rd	Routes of administration of drugs, their advantages and disadvantages-Topical & other			
2 nd	1 st	Various processes of absorption of drugs and the factors affecting them		Introduction of software	
	2 nd	Metabolism, Distribution and Excretion of drugs			
	3 rd	Test			
3 rd	1 st	Drug receptor interaction- Ligand Gated Ion channel, G- Protien coupled receptor		To select the animals for experimental use in pharmacology.	
	2 nd	Enzyme linked receptor & Intracellular receptor			
	3 rd	General Anaestheies, adjunction to anesthesia, intravenous Ana esthetics			
4 th	1 st	Analgestic		To study the common	

	T		
		antipyretics and non- steroidal, anti- Inflammatory drugs and Narcotic analgesics	instrument & equipment and equipments used in experimental pharmacology.
	2 nd	Anti-rheumatic and antigout remedies	
	3 rd	Sedatives and Hypnotics	
5 th	1 st	Psychopharmacological agents	To prepare physiological salt solutions
	2 nd	Anti convulsants, analeptics, Centrally acting muscle relaxants	
	3 rd	Anti- Parkinsonism agents, Local Anesthetics	To study the effect of adrenaline on heart rate &
6 th	1 st	Cholinergic drug	force of contraction on
	2 nd	Revision	Isolated frog heart by using software.
	3 rd	Anti- Cholinergic drugs	
7 th	1 st	Adrenergic drugs	To study the effect of acetylcholine
	2 nd	Anti- cholinesterase drugs	on heart rate & force of contraction on isolated frog heart by using software.
	3 rd	Adrenergic receptor blockers	To study the effect of acetylcholine on isolated rectus abdominus muscle by using software.
8 th	1 st	Neurone blockers and Ganglion blockers	
	2 nd	Neuromuscular blockers	
	3 rd	Drugs used in myasthenia gravis	To study the effect of acetylcholine on ileum of guinea pig by using
9 th	1 st	Drugs acting on eye, mydriatics 1st Sessional Examination	software.
	3 rd	Drugs used in glaucoma	
10 th	1 st	Drugs acting on respiratory system-Respiratory stimuntants	To study the effect of mydriatics on rabbit cornea by using software.
	2 nd	Bronchodilators, Nasal decongestants	
	3 rd	Expectorants and Antitussive agents	To study the effect of acetylcholine
11 th	1 st	Antacids	on ileum of guinea pig by using
	2 nd	Physiological role of histamine and serotonin	software.
	3 rd	Histamine and Antihistamines	To study the effect of mydriatics on rabbit cornea
12 th	1 st	Prostaglandins	

	2 nd	Cardio Vascular drugs	by using software.
	3 rd	Cardio tonics	To study the effect of
13 th	1st	Anti-arrhythmic agents	miotics on rabbit cornea
	2 nd	Antianginal agents	by using software.
	3 rd	Antihypertensive agents	To study the effect of digitalis
14 th	1st		on heart rate & force of
14"	2nd	Peripheral vasodilators	contraction on isolated frog
	Ziiu	Drugs used in atherosclerosis	heart by using software.
		Haematinics	To observe the effect of
15 th	1 st	Coagulants and Anti-	convulsant& anticonvulsant in
13	1	coagulants and Anti-	mice by using CD.
	2 nd	Haemostatic	To study the effect of
	3 rd	Blood substitutes	chlorpromazine
16 th	1 st		•
10	2 nd	Blood expanders 2 nd Sessional Examination	
			m . 1 . 1 . 1
	3 rd	Physiology of	To study the various laboratory
		renal tract-	techniques used in experimental
		excretion, urine formation &	pharmacology.
		UTI	
17 th	1st	Diuretics	
1 /	2 nd	Antidiuretics	
	3 rd		Vivo voice
	324	Hormones – Introduction to	Viva voice
		Pituitary gland hormones, Thyroid	
		& Adrenal gland	
		hormones	
18 th	1st	Hormone antagonists-	
		hypoglycemic agents	
	2 nd	Sex hormones and oral	Viva voice
	_	contraceptive	
	3 rd	Corticosteroids	
19 th	1 st	Car-minatives,	
	1	Digestants& Bitters	
	2 nd	Antacids and drugs used	To understand the adverse
	3 rd	in Peptic Ulcer Purgative and Laxatives	drug reaction and monitor
20 th	1st		the same
20 th	134	Ant-diarrhoeals& Emetics	
	2 nd	Anti-emetics, Anti-	To understand the adverse
	_	spasmodic	drug reaction and monitor
	3 rd	Urinary Anti-septic	the same
21st	1 st	Sulphonamides	
		•	
	2 nd	Penicillin, Streptomycin	To understand the adverse
	3 rd	Tetracylines and other	drug reaction and monitor
		antibiotics	the same
22 nd	1 st	Antiubercular agents	To visit a nearby hospital
	2 nd	Antifungal agents,	
	لسم	antiviral drugs	Viva voice
	3 rd	Test	

23 rd	1 st	Malaria- Introduction, Life cycle of Malaria parasite	
	2 nd	Antimalarials	
	3 rd	Anthelmintic drugs	Viva voice
24 th	1 st	Cancer- introduction & cause of cancer, types of cancer	
	2 nd	Anticancer drugs	
	3 rd	Disinfectants	Viva voice
25 th	1 st	Anti-septic	
	2 nd	3 rd Sessional Examination	
	3 rd	Revision	

Performa: Jhankar College of Pharmacy				
		Lesson Pla	n	
Name of the faculty		Mr. Vishal Saini		
Discipline		Pharmacy		
Semester		2 nd Year		
Subject		Community Pharmacy and Ma	anagement	
Lesson p	lan	75 Hours (20 Aug 2024 to 30 J		
Duration			,	
	ad/week(In	Lecture- 03; Practical- 03		
hour)		Eccure se, Truesieur se		
Week		Theory		Practical
, , con	Lecture	Topic	Practical	Topic
	Day	Topic	Day	Topic
1 st	1 st	Community Pharmacy	<u> </u>	To perform the study of
_	_	Practice – Definition, history		prescription, handling with
		and development of		professional standards.
		community pharmacy		professional standards.
	2nd	, i		
	2	International and Indian		
	and	Scenarios		
	3 rd	Professional responsibilities of		
		community pharmacists		
2 nd	1 st	Introduction to the concept of		To perform study on the drug
		Good Pharmacy Practice		intraction.
	2 nd	Good Pharmacy Practice and		
		SOPs.		
	3 rd	Good Pharmacy Practice and		
		SOPs.		
3 rd	1 st	Prescription and prescription		To perform the study on
		handling		dispensing and auxiliary Labels
		Definition, parts of		
		prescriptionsbrief instructions		
		on medication usage		
	2 nd	Legality of prescriptions,		
		prescription handling		
	3 rd	Labelling of dispensed		
		medications(Main label,		
		ancillary label, pictograms)		
4 th	1 st	Labelling of dispensed		To perform the screening and
		medications(Main label,		recording of blood pressure
		ancillary label, pictograms)		
	2 nd	Dispensing process, Good		
		Dispensing Practices		
	3 rd	dispensing errors and		
		strategies to minimize them		
		saucegres to minimize them		
5 th	1 st	Class Test		Viva voce
	2 nd	Communication deli		
	Z ¹¹⁰	Communication skills		
		Definition, types of		
		communication skills		
	3 rd	Interactions with professionals		
		and patients		
6 th	1 st	Verbal communication skills		To perform the determination
		(one-to-one, over the		of capillary blood glucose level
	*			·

		telephone)	
	2 nd	Written communication skills	
		And Body language	
	3 rd	Patient interview techniques	Determination of tidal volume
7 th	1 st	Patient counseling-	vital capacity by using
		Definition and benefits of	spirometer
		patient counseling	
	2 nd	Stages of patient counselling-	
		Introduction, counselling	
		Content	
	3rd	Counselling process, and	
		closing the counselling	
		Session	
8 th	1 st	Barriers to effective	To measure body ,mass index
J	1	counseling - Types and	with the help of BMI formula
		strategiesto overcome the	to identify the actual body
		barriers	weight status and desirable
		buffers	body status
	2 nd	Hypertension, Asthma	oog suitus
	3 rd	Diabetes, ,Tuberculosis	
9th	1 st	Chronic obstructive	Viva voce.
	1	pulmonary disease	viva vocc.
	2 nd	AIDS	
	3 rd	Patient Package Inserts -	
	3		
		Definition, importance and Benefits	
10 th	1 st	Scenarios of PPI use in India	To perform the notioned
10	1 **	and other countries	To perform the patience
	2 nd	Patient Information leaflets -	counselling on asthma
	2	Definition and uses	
	3 rd		
1 1 th	~	Class test	T
11 th	1 st	Medication Adherence	To perform the patience
		Definition, factors influencing	counselling on Hypertension
	and	non- adherence	
	2 nd	Strategiestoovercome non-	
	- 1	adherence	
	3 rd	Health Screening Services in	
		Community Pharmacy	
		Introduction, scope	
12 th	1 st	importance of various health	To perform the patience
		screeningservices	counselling on Diabeties
			mellitus
	2 nd	Routine monitoring of patients	
	3 rd	Early detection, andreferral of	
		undiagnosed cases	
13 th	1 st	Early detection, and	Viva voce
		referral of undiagnosed cases	
	2 nd	Over The Counter (OTC)	
		Medications-Definition, need	
		and role of Pharmacists in	
		OTC medicationDispensing	
	3 rd	OTC medications in India,	
14 th	1 st	Counseling for OTC products	To perform the patience
			counselling on rheumatied

			arthritis
	2 nd	Self-medication and role of	aruntis
		pharmacists in promoting the	
		safe practices during self-	
		medication	
	3 rd	Self-medication and role of	
		pharmacists in promoting the	
		safe practices during self-	
		medication	
15 th	1 st	Responding to symptoms,	Viva voca
		minor ailments,	
	2 nd	advice forself-care in	
		conditions such as - Pain	
		management,Cough,	
	3 rd	Cold, Diarrhea, Constipation,	
16 th	1 st	Vomiting, Fever,Sore throat,	To perform the patience
	- 1		counselling on hyperlipidemia
	2 nd	Skin disorders	
1 7 th	3rd	Skin disorders	Transfer of the state of the st
17 th	1 st	Class test	To perform the patience
			counselling on headache to a
	2 nd	Oral health (mouth ulcers)	patience
	3 rd	Oral health-dental pain, gum	
	3	swelling	
18 th	1 st	Community Pharmacy	To perform the patience
10	1	Management- Introduction,	counselling on gastointesinal
		Community Pharmacy,	disturbances
		responsibility of pharmacy	distarbances
		manager	
	2 nd	Legal requirements to set up a	
		community pharmacy	
	3 rd	Legal requirements to set up a	
		community pharmacy	
19 th	1 st	Site selection requirements	To perform the patience
			counselling on worm infection
	2 nd	Pharmacy designs and	
		interiors	
	3 rd	Pharmacy designs and	
1		interiors	
20^{th}	1 st	Pharmacy designs and	Viva voca
	and	interiors	
	2 nd 3 rd	Vendor selection	
21 st		Ordering in Pharmacy	To sto los ou la conferenciales
21st	1 st	Ordering in Pharmcy	To study and perform the
	2nd	Procurement,	counselling on pyrexia
	3rd	· · · · · · · · · · · · · · · · · · ·	
22 nd	1 st	Inventory control methods, Inventory control methods,	To parform the study on
	1	inventory control methods,	To perform the study on counselling on Upper
			respiratory tract infaction
	2 nd	Inventorymanagement	respiratory tract infaction
	3 rd	Financial planning and	
		management Accountancy in	

23 rd	1 st	community pharmacy – Day book, Cash book	Viva voce
	2 nd	Introduction to pharmacy operation softwares usefulnessand availability	
	3 rd	Customer Relation Management (CRM)	
24 th	1 st	Audits in Pharmacies	To perform the study on counselling on skin infactions
	2 nd	SOP of Pharmacy Management	-
	3 rd	Introduction to Digital Health	
25 th	1 st	Introduction to mHealth	To perform the study on counselling on Teeth disorder
	2 nd	Online Pharmacies	-
	3 rd	Online Pharmacies	