

Name of Faculty: Ms. Kavita Kanger
 Discipline: D. Pharmacy 1st Year
 Subject : Social pharmacy
 Lesson Plan Duration: 2 Dec 2024 to 13 June 2025

week	Theory		Practical	
	Lecture Day		Pr DAY	Topic
1st	1	Introduction to Social Pharmacy	1	Role and responsibility of pharmacist
	2	Scope of social Pharmacy		
	3	Physical Mental Social Spiritual Health		
2nd	4	Determinants & Indications of Health	2	Write down familyplanning devices
	5	Disease & Disease Prevention concepts		
	6	Various Component of Health		
3rd	7	Food and its Classification	3	National immunization schedule
	8	Disease &Preventions: Protien Deficiency		
	9	Carbohydrate deficiency		
4th	10	Minerals & Vitamins	4	Role and responsibility of pharmacist
	11	Demography cycle and Frtility		
	12	Family planning, Population Policy		
5th	13	Demography and	5	Reproductive & child health program
	14	Contraceptive Methods:		
6th	15	Hormonal Contraceptive Method	6	To discuss personal hygiene
	16	Permanent Contraceptive Method		
	17	First-Aid : Poisoning and Burn		
7th	18	First-Aid Heart Lungs resuscitation	7	To discuss hand washing technique
	19	Element of minor surgery and dressing		
8th	20	Water pollution	8	To discuss cough & sneeze etiquette
	21	Water purification		
	22	Water purification		
9th	23	Light Noise Pollution	9	To discuss menstrual hygiene
	24	Solid Waste Disposal		
	25	Tentative session exam		
10th	26	Tentative session exam	10	Emergency treatment of snake bite
	27	Tentative session exam		
	28	Medical Entomology		
11th	29	Arthropod born disease and control	11	First aid treatment of fracture
12th	30	Isolation and Staining Techniques	12	First aid treatment of burn and scolds
	31	Communicable disease & Transmission		

	32	Respiratory Tract Infections: Transmission		
13th	33	Intestinal infections	13	Emergency treatment of insecticides poison
	34	Arthropod infections		
	35	Surface infections		
14th	36	Sexually transmitted diseases	14	First aid treatment of CPR
	37	Diabetes : Cause, Prevention and Control		
	38	National health policy		
15th	39	National health mission	15	Discuss about electric shock
	40	Cardiovascular diseases		
	41	Epidemiology: Scope and methods uses		
16th	42	Tentative session exam	16	Different steps of CPR
	43	Tentative session exam		
	44	Tentative session exam		
17th	45	Dynamics Disease Transmissions	17	Mouth to mouth resuscitation
	46	Methods of Transmissions		
	47	Types of Immunity		
18th	48	Introduction to pharmacoeconomics	18	First aid treatment of heart diseases
	49	Introduction to millennium development		
	50	Sustainable development goals		
19th	51	Psychotropics pharmacy	19	To study drug food interactions
	52	Drug of misuse and abuse		
	53	Psychotropics narcotics		
20th	54	productivity	20	To study adulteration food
	55	Suicidal behaviours		
	56	Basics of nutrition		
21th	57	Importance of water and fibres	21	To study about the surface infection
	58	Balanced diet		
	59	Ill effects of junk food		
22th	60	Tentative session exam	22	Study about the sexually transmitted dis
	61	Tentative session exam		
	62	Tentative session exam		
23th	63	Nutritive values of various food	23	To discuss about arm left chest pressure
	64	Fortification of food		
	65	Adulteration of food		
24th	66	Effect of artificial ripening	24	To study about arthropod born infection
	67	Pesticides		
	68	Modified food		

25th	69	Dietary supplement	25	o study about respiratory tract infectio
	70	Nutraceuticals		
	71	Supplement inductions		

LESSON PLAN

Name of Faculty: Mrs.Veena Saini
 Discipline: D. Pharmacy 1st Year
 Subject: Pharmacognosy
 Lesson Plan Duration: 2 Dec 2024 to 13 June 2025

week	Theory		Practical	
	Lecture Day		Pr DAY	Topic
1st	1	Introduction of subject	1	To perform the morphological study of coriander
	2	Vitamins		
	3	Antimalarial		
2nd	4	Antileptics	2	To perform the morphological study of fennel
	5	Antiseptics & disinfectant		
	6	Astringent		
3rd	7	Antihypertensive	3	To perform the morphological study of the cardamom
	8	Antitumor-Vinea		
	9	Crude drugs cultivation collection		
4th	10	Crude drugs preparation for market	4	To study the morphological study of ginger
	11	Antitussive		
	12	Classification of crude drugs		
5th	13	Perfume & flavouring agent	5	To perform the morphological study of nutmeg
	14	Enzymes & classification		
	15	Yeast, Papain, Diastase		
6th	16	Alkaloids, carbohydrates	6	To perform the morphological study of black pepper
	17	Alkaloids distribution test		
	18	Glycoside their test properties		
7th	19	test of antitussive, antitumors	7	To perform the morphological study of cinnamon
	20	Revision of 1st sessional syllabus		
	21	Revision & test of 1st sessional		
8th	22	Preparation of syllabus for sessional	8	To perform the morphological study of clove
	23	Kaolin, pectin		
	24	Introduction of Umbelliferous drugs		
9th	25	Cardamom, fennel	9	To study the organoleptic character and source of vitamins
	26	Coriander, clove		
	27	Nutmeg, asafoetida		
10th	28	Tentative session exam	10	To perform the morphological study of rauwolfia
	29	Tentative session exam		
	30	Tentative session exam		
11th	31	Ginger, black pepper	11	To perform the morphological study of ipecacuanha
	32	Ashwagandha		
	33	Ephedra, nux vomica		
12th	34	Cannabis, aconite	12	To the morphological study of benzoin, myrrh
	35	Test of drugs acting of CNS		
	36	Hysocyamus & datura		
	37	Resins & identification test		To perform the physical & chemical test

13th	38	Diuretics gokhru, punarnava	13	To perform the physical & chemical test of asafoetida
	39	Antidiabetic, Gymnema, pterocarpus		
14th	40	Miscellaneous drugs-liquorice	14	To study the character of diff. fibers from animals
	41	Garlic, picrorrhiza		
	42	Satavri, linseed		
15th	43	Test of liquorice, garlic	15	To study the enzyme
	44	Test: linseed, shatavri, picrorrhiza		
	45	Satavri, linseed, shankpushpi		
16th	46	Tentative session exam	16	To study the morphological study of senna & ispaghula
	47	Tentative session exam		
	48	Tentative session exam		
17th	49	Opium & cultivation and collection	17	To perform the physical & chemical test of benzoin
	50	Opium & cultivation and collection		
	51	Test of opium		
18th	52	Drug adultration	18	The morphological study of cinchona
	53	Types of adultration		
	54	Drug evaluation		
19th	55	Biological evaluation	19	The morphological study of antiseptic & disinfectant
	56	Drug technical product		
	57	Cardiotonic: arjuna		
20th	58	Digitalis	20	The study of laxative Aloe, castor oil
	59	Anti-rheumatics		
	60	Oxytocic		
21th	61	Life cycle of ergot	21	Morphological study of squills & galls
	62	Pharmaceutical aids		
	63	Pharmaceutical aids from plants		
22th	64	Tentative session exam	22	Morphological study of character of pterocarpous, gymnema
	65	Tentative session exam		
	66	Tentative session exam		
23th	67	Pharmaceutical aids from animals	23	To study of diuretics
	68	Starch		
	69	Arachis oil		
24th	70	Olive oil, lanolin	24	To perform the identification test for alkaloids or glycoside
	71	Bees wax, acacia, tragacanth		
	72	Herbal cosmetics		
25th	73	Phytochemical investigation of drug	25	To perform the identification test of volatile oil
	74	Neutraceutical, probiotics, carotene		
	75	Introduction of herbal formulation		
26th	76	Gelatin	26	To perform the morphological study of pharmaceutical aids
	77	Fibers, classification		
	78	Test of fibers		
27th	79	Absorbent cotton	27	To perform the morphological study of agar, guar gum, gelatin
	80	Alkaloids: source, test extraction, use		
	81	Glycoside: source, test extraction, use		

LESSON PLAN

Name of Faculty: Ms. Kavita Kanger

Discipline: D. Pharmacy 1st Year

Subject: Pharmaceutics

Lesson Plan Duration: 2 Dec 2024 to 13 June 2025

week	Theory		Practical	
	Lecture Day		Pr DAY	Topic
1st	1st	Introduction different dosage forms	1	To prepare simple syrup IP
	2nd	Classification and definitions		
	3rd	New drug delivery systems		
2nd	4th	Introduction to Pharmacopeias	2	To prepare Lugol's solution
	5th	India Pharmacopoeia		
	6th	Metrology, weights and measures		
3rd	7th	Calculation: Percentage calculation	3	To prepare dusting powder
	8th	Alligation method		
	9th	Isotonic solutions : adjustment theory		
4th	10th	Isotonic Solutions : Calculations	4	To prepare boric acid suppositories
	11th	Packaging Qualities, Types		
	12th	Glass Containers Types , Merits demerits		
5th	13th	plastic Container: Types, merits demerits	5	To prepare NaHCO ₃ granules
	14th	Metals , Papers and Board Containers		
	15th	Closures: Types & materials		
6th	16th	Aerosol Packing	6	To prepare vanishing cream
	17th	Modern Unit Dosage Form		
	18th	Size Reduction: Importance , Factors		
7th	19th	Hammer mill, Disintegrator	7	To prepare castor oil emulsion
	20th	Ball mill & Fluid energy mill,		
	21st	Standard : Sieves & Office Powders		
8th	22th	Separation by sifting and Sedimentation	8	To prepare cold cream
	23th	cyclone separator Construction Working		
	24th	Mixing Definition, Objectives, Types		
9th	25th	Agitated Powder & Double Cone Mixer	9	To prepare poultice
	26th	Liquid Mixing: Propeller mixer		
	27th	Triple Roller mill, Planetary mixer		

10th	28th	Tentative session exam	10	To prepare boric acid eye lotion
	29th	Hand, Silverson Colloidal homogenizer		
	30th	Clarification & Filtration, theory, Factors		
11th	31th	Characteristics/ Selection Filter aids	11	To prepare weak iodine solution
	32th	Filter press : Working, Merits & Demerits		
	33th	Sintered filters, Filter candle Metafilter		
12th	34th	Extraction, Tinctures, Infusion , decoction	12	To prepare insuffltion
	35th	Simple Maceration Processes		
	36th	Maceration : Concentrated preparation		
13th	37th	Continuous hot percolation	13	To prepare simple ointment
	38th	Basic structure of manufacturing plant		
	39th	Definition and concept of quality control		
14th	40th	Definition and concept of quality assurance	14	To prepare liquid paraffin emulsion
	41th	Current good manufacturing practice		
	42th	Introduction to concept of calibration		
15th	43th	Introduction to concept of validation	15	To prepare draught
	44th	Introduction to Liquid oral preparation		
	45th	Solution syrup elixir emulsion		
16th	46th	Tentative session exam	16	To prepare chloroform wate IP
	47th	Tentative session exam		
	48th	Tentative session exam		
17th	49th	Suspension dry powder for reconstitution	17	To prepar chloro hydrate suppostories
	50th	Introduction to topical preparations: gels		
	51th	Ointment cream paste lotion and liniments		
18th	52th	Powder and granules insufflations	18	To prepare chlorophenolic capsule
	53th	Nasal preparations		
	54th	Ear preparations		
19th	55th	Sterile formulations: injectables	19	To prepare and submit silphur ointmet
	56th	Eye drops and eye ointments		
	57th	Drying process definition and objective		

20th	58th	Drying process Theory & Application	20	To prepare and submit zinc ointment
	59th	Fluidized bed dryer, vacuum dryer		
	60th	Freeze drier		
21th	61th	compressed tablets: Types	21	To prepare 100g emulsifying ointment
	62th	Excipients: compressed tablets		
	63th	Excipients: compressed tablets		
22th	64th	Tentative session exam	21	To prepare and submit suppositories
	65th	Tentative session exam		
	66th	Tentative session exam		
23th	67th	Compressed tablet production process	23	To prepare extrose injecion I.P
	68th	Compressed tablet production process		
	69th	Defects of tablets		
24th	70th	Defects of tablets	24	To prepare an submit lemon mixture
	71th	Evaluation of tablets		
	72th	Evaluation of tablets		
25th	73th	Introduction and types of capsules	25	To prepare and submit inhalation
	74th	Filling of soft gelatin of capsules		
	75th	Capsules: Handling, storage, application		

LESSON PLAN

Name of Faculty: Mrs. Preeti Bansal
 Discipline: D. Pharmacy 1st Year
 Subject: Human Anatomy & Physiology
 Lesson Plan Duration: 2 Dec 2024 to 13 June 2025

week	Theory		Practical	
	Lecture Day		Pr DAY	Topic
1st	1	Introduction Human Anatomy Physiology	1	To study about the animal cell & parts
	2	Anatomical Position of Body		
	3	Animal Cell		
2nd	4	Animal Cell	2	To study about sample of blood
	5	Animal Tissues : Epithelial		
	6	Glandular Tissues		
3rd	7	Muscular Tissues	3	To study about the parts of upper limbs
	8	Connective tissues		
	9	Skeletal tissues		
4th	10	Nervous tissues	4	To study about the parts of lower limbs
	11	Blood Introduction and Function		
	12	Composition of blood		
5th	13	Blood Cell formation	5	To study about the structure of human skull
	14	Blood coagulation		
	15	Blood groups ABO System & Rh Factors		
6th	16	Disorders of blood	6	To study about epithellium tissue
	17	Lymph vessels & Lymph node		
	18	Spleen, Thymus, Reticuloendothelial		
7th	19	Structure of heart	7	To study about blood group
	20	Working of Heart and Cardiac cycle		
	21	Blood pressure and ECG		
8th	22	Arterial system	8	To study about function of skin
	23	Venous System		
	24	Disorders of Cardiac Vascular system		
9th	25	Disorders of circulatory system	9	To study about structure & function of heart
	26	Respiratory Organs Structure		
	27	Tentative session exam		
10th	28	Tentative session exam	10	To study about nervous tissue
	29	Tentative session exam		
	30	Mechanism of Respiration		
11th	31	Physiology of Respiration	11	To study about the nervous system
	32	Disorders of Respiratory System		
	33	Urinary System: Structure		
12th	34	Urinary System: Physiology of Excretion	12	To study about structure & function of humancy
	35	Micturition, Urinary Disorders		
	36	Urinary System: disorders		

13th	37	Skeletal Muscle structure	13	To study about human ear
	38	Muscle contraction Mechanism		
	39	Skeletal muscle disorders		
14th	40	CNS Introduction & Structure of Brain	14	To study about digestive system
	41	Function of brain parts		
	42	Spinal cord, cranial and spinal nerves		
15th	43	Autonomic nervous system: Introduction	15	To study about male reproductive system
	44	Sympathetic nervous system		
	45	Parasympathetic nervous system		
16th	46	Tentative session exam	16	To study about female reproductive system
	47	Tentative session exam		
	48	Tentative session exam		
17th	49	Reflex Action	17	To study about human respiratory system
	50	Transmission of nerve impulse		
	51	Nervous system disorders		
18th	52	Skeletal System, Skull structure Function	18	To study about endocrine system
	53	Vertebral Column structure and function		
	54	Bone Upper & Lower limbs		
19th	55	Joints	19	To study about cardiovascular system
	56	Disorder of Bones and Joints		
	57	Introduction Human Sense organ & Nose		
20th	58	Skin structure and function	20	To study about urinary system
	59	Eyes structure & Function		
	60	Eyes disorders		
21th	61	Ear structure &Function	21	To study about WBC count of blood
	62	Tongue & Disorders of ear		
	63	Digestion: Alimentary canal structure		
22th	64	Tentative session exam	22	To study about ESR
	65	Tentative session exam		
	66	Digestion: Salivary gland & Pancreas		
23th	67	Liver structure and function	23	To study about haemoglobin content of blood
	68	Function of GIT & Digestion of food		
	69	Absorption and assimilation		
24th	70	Absorption and assimilation	24	To study about bleeding time & clotting time
	71	Alimentary canal disorders		
	72	Introduction: endocrine gland&Hormone		
25th	73	Hypothalamus & Pituitary Gland	25	To study about recording pulse oxygen
	74	Thyroid gland structure and function		
	75	Disorders of thyroid gland		

LESSON PLAN

Name of Faculty: Mrs. Navneet Kaur
 Discipline: D. Pharmacy 1st Year
 Subject: Pharmaceutical Chemistry
 Lesson Plan Duration: 2 Dec 2024 to 13 June 2025

		Theory			Practical
Week	Lecture day		Pr day		
1st	1	Introduction to pharmaceutical chemistry	1		To study the different laboratory equipments and general glasswares used in chemistry practical.
	2	Scope and objectives			
	3	Sources and types of error			
2nd	4	Sources and types of error	2		To study the identification test for Ammonium chloride.
	5	Impurities in pharmaceuticals			
	6	Impurities in			
	7	pharmaceuticals			
3rd	8	Impurities in pharmaceuticals	3		To perform the identification test for given sample of sodium chloride.
	9	Impurities in			
	10	pharmaceuticals			
	11	Volumetric analysis			
4th	12	Volumetric analysis	4		To perform and report identification test of given sample of NaHCO ₃ IP.
	13	Volumetric analysis			
	14	Volumetric analysis			
5th	15	Gravimetric analysis- principle	5		To perform the identification tests for purity of caffeine.
	16	Method of gravimetric analysis			
	17	Inorganic pharmaceuticals- haematinics			
6th	18	Haematinics	6		To perform the limit test of chloride is the given sample of sodium bicarbonate.
	19	Gastrointestinal agents			
	20	Gastrointestinal agents			
7th	21	Topical agents	7		To perform the limit test of chloride is given sample of dextrose.
	22	Dental products			

	23	Medicinal gases		
8th	24	Introduction to nomenclature	8	To identify given sample of paracetamol.
	25	Introduction to nomenclature		
	26	Anaesthetics		
9th	27	Sedative and hypnotics	9	To perform the limit test for sulphate in the given sample of borax.
	28	Antipsychotics		
	29	Antipsychotics		
10th	30	Sessional	10	To perform the limit test for sulphate in the given sample of sodium bi carbonate.
	31	Anticonvulsants		
	32	Anticonvulsants		
11th	33	Antidepressants	11	To determine boiling point the given liquid.
	34	Antidepressants		
	35	Sympathomimetic drugs		
12th	36	Sympathomimetic drugs	12	To carry out the limit test of iron in given sample of borax.
	37	Adrenergic antagonists		
	38	Adrenergic antagonists		
13th	39	Cholinergic drugs	13	To perform the limit test for heavy metal in the given sample of borax.
	40	Cholinergic drugs		
	41	Cholinergic drugs		
14th	42	Cholinergic blocking agents	14	To prepare approximately 0.1N HCL acid and standardized it.
	43	Cholinergic blocking agents		
	44	Antiarrhythmic drugs		
15th	45	Antiarrhythmic drugs	15	To carry out the assay of given in ferrous sulphate.
	46	Antihypertensive drugs		
	47	Antihypertensive drugs		
16th	48	Revision	16	To perform assay of hydrogen peroxide solution
	49	Test		
	50	Anti-anginal agents		
17th	51	Diuretics	17	To perform the assay of iodine
	52	Sessional		
	53	Diuretics		
18th	54	Hypoglycemic agents	18	To perform the assay of calcium gluconate.
	55	Hypoglycemic agents		

	56	Hypoglycemic agents		
19th	57	Analgesics, anti- inflammatory agents	19	To perform the identification test for the given sample of iodine.
	58	NSAIDs		
	59	Anti-fungal agents		
20th	60	Revision	20	To perform the identification test for the given sample of barium sulphate.
	61	Test		
	62	Urinary tract anti-infective agents		
21st	63	Anti-tubercular drugs	21	To perform the assay of magnesium sulphate.
	64	Antiviral agents		
	65	Anti-malarial drugs		
22nd	66	Anti-malarial drugs	22	To perform the limit test for sulphate in the given sample of tab water.
	67	Sulphonamides		
	68	Antibiotics		
23rd	69	Tetracyclines	23	To perform the limit test for sulphate in the given sample of sodium citrate
	70	Revision		
	71	Macrolides		
24th	72	Miscellaneous	24	To perform the limit test for chloride in the given sample of tab water.
	73	Anti-neoplastic agents		
	74	Anti-neoplastic agents		
25th	75	Anti-neoplastic agents	25	To perform the limit test for chloride in the given sample of sodium hydroxide

Name of Faculty: Ms. Veena Saini
 Discipline: D. Pharmacy 2nd Year
 Subject: hospital pharmacy
 Lesson Plan Duration:20/AUG2024- 09-MAY-2025

week	Theory		Practical	
	Lecture Day		Pr DAY	Topic
1st	1st	Hospital : Definition & Function	1	To know your hospital and clinical pharmacy laboratory
	2nd	Classification of hospital.		
	3rd	Organization of Hospital		
2nd	4th	Management of hospital	2	To style conucal flask & pipette by dry heat & sterilization method
	5th	Health delivery system		
	6th	Hospital pharmacy : Definition		
3rd	7th	Hospital pharmacy: functions& objective.	3	To study about the different types of syringes
	8th	Layout: Flow Chart:Men & Material		
	9th	Personnel and facilities Requirement		
4th	10th	Hospital Pharmacists. Abilities	4	To study about ryle's tube
	11th	Drug distribution for outpatient		
	12th	Drug Distribution for Inpatient		
5th	13th	Drug Prepackaging & Bed side	5	To study about ctheters
	14th	Central Sterile		
	15th	Manufacturing Estimation: Demand		
6th	16th	Sterile Manufacturing: Facilities	6	To study orthopadic and surgical aids
	17th	Layout of sterile product Area		
	18th	Production Planning of sterile products		
7th	19th	Nonsterile Manufacturing: Liquid Dosage	7	To study various equipment meterials clothing used as aspetic techniques
	20th	Ointment, Paste, creams.		
	21st	Solution and Bulk Concentrate		
8th	22	Procurement of stores	8	To perform sc vaccination and injection technique using mannequins
	23	Testing of Raw materials		
	24	Nomenclature & uses: Surgical		
9th	25	PTC objective and function.	9	To study about vaccination and injection (SC, IM, IV) Technique using mannequins
	26	Organizations of PTC		
	27	PTC role in drug safety, ADR.		
10th	28	Tentative session exam	10	To study about application and administration of diff. type of bandage as gauze, cotton & banges
	29	Tentative session exam		
	30	Tentative session exam		

11th	31	Hospital formulary: Objective Principles	11	Study about diff. type of bandage like gauze cotton and repe bandage
	32	Contents Revision of formulary		
	33	PTC objective and function.		
12th	34	Organizations of PTC	12	To study the types of gauze
	35	Bandages, dressings.		
	36	Other hospital supplies		
13th	37	Application of computers in pharmacy	13	To study the test of absorbent cotton
	38	Role of clinical pharmacist		
	39	Modern Dispensing Aspects		
14th	40	Pharmacist Role in patient compliance	14	To study the uses of digital toolsin HP
	41	Common drugs use, medication history.		
	42	Pathophysiology of T.B.		
15th	43	Pathophysiology of Hepatitis	15	To study the diff. type of digital tools used in HP
	44	Pathophysiology: Rheumatoid Arthritis.		
	45	Pathophysiology of Epilepsy & diabetes.		
16th	56	Tentative session exam	16	To study the diff. type of needles
	57	Tentative session exam		
	58	Tentative session exam		
17th	59	Pathophysiology of Hypertension, M.I.	17	To study the diff. types & uses of I.V sets
	60	Angina pectoris, CHF, Arrhythmia		
	61	Physiological parametersHematological		
18th	62	RBC, WBC, Platelets, Hb, ESR	18	To study about pharmacovigilance & its scope in indian health system
	63	Urine & stool Examination, Blood Sugar		
	64	Drug interactions: introduction		
19th	65	Drug interaction: Pharmacokinetic	19	To study the process of dispensing drugs to out patient in a typical hospital
	66	Drug interaction: pharmacodynamic		
	67	Drug interaction Analgesic.		
20th	68	Drug interaction Diuretic drug		
	69	Drug interaction Hypoglycemic, vitamin		
	70	Drug interaction: CVS		
	71	Drug interaction: G.I.T Agents.		
	72	Drug food Interaction		

21th	73	ADR, Definition Significance
22th	74	Tentative session exam
	75	Tentative session exam
	76	Tentative session exam
23th	77	ADR: Classification
	78	Drug induced diseases - Introduction
	79	General Treatment: Poisoning
24th	80	Teratogenicity
	81	Systemic Antidotes
	82	Insecticide &
25th	83	Drug in clinical Toxicity
	84	Heavy metal poisoning
	85	Narcotic Analgesic, general Depressants
26th	86	Overview of pharmacovigilance
	87	Addictive Drugs and Treatment
		Drug interactions
27th	89	Clinical pharmacy - objective , scope
	90	Bandages, dressings
	91	Medications errors
28th	92	Factor affecting bioavailability
	93	Hospital Pharmacists. Abilities
	94	Drug distribution for outpatient

LESSION PLAN			
Department of pharmacy			
Name of Faculty: preeti bansal			
Name of Subject: Pharmacotherapeutics			
Lesson Plan Duration:20/AUG2024- 09-MAY-2025			
Semester: 2nd year			
Week	Lecture	Topics to be covered (Theory)	PRACITAL
1	1	introduction	handeling of prescription
	2	Scope and objectives	
	3	Rational use of medicines	
	4	Rational use of medicines	
2	5	Evidence based medicines	identification of drug drug interaction
	6	Essential medicines list	
	7	Standard treatment guidelines	
	8	Standard treatment guidelines	
3	9	Ch -2 (a) hypertension	prepration of dispensing label
	10	Hypertension	
	11	Angina and myocardial infraction	
	12	Angina and myocardial infraction	
4	13	Hyperlipidaemia	health screening
	14	Hyperlipidaemia	
	15	Congestive heart failure	
	16	Congestive heart failure	
5	17	(b) Asthma	counselling of patient
	18	Asthma	
	19	COPD	
	20	COPD	
6	21	(c) Diabetes	providing counselling for chronic disease
	22	Diabetes	
	23	Thyroid disorders	
	24	Hypo	
7	25	Hyperthyroidism	appropriate handling of dummy dosage
	26	(d) Epilepsy	
	27	Parkison's disease	
	28	Parkison's disease	
8	29	Alzheimer's disease	use of community pharmacy software
	30	Alzheimer's disease	
	31	Stroke	
	32	Migraine	
9	33	Migraine	digital health
	34	(e) Gastro oesophageal reflux disease	
	35	Gastro oesophageal reflux disease	
	36	Peptic ulcer disease	

10	37	Peptic ulcer disease	m health
	38	Alcoholic liver disease	
	39	Alcoholic liver disease	
	40	Inflammatory bowel disease (Crohn's disease)	
11	41	Inflammatory bowel disease (Ulcerative colit	determentaion capillary blood suger level
	42	(f) Iron deficiency disease	
	43	Iron deficiency disease	
	44	Megaloblastic anaemia	
12	45	Megaloblastic anaemia	patient counselling on asthma
	46	Tuberculosis	
	47	Pneumonia	
	48	Urinary tract infections	
13	49	Hepatitis	patient counselling on hypertension
	50	Gonorrhoea and syphilis	
	51	Gonorrhoea and syphilis	
	52	Malaria	
14	53	Malaria	study of deug interaction
	54	HIV and Opportunistic infections	
	55	HIV and Opportunistic infections	
	56	Viral infections (SARA)	
15	57	Viral infections (CoV2)	measure body mass index with the help of BMI formula
	58	(h) Rheumatoid arthritis	
	59	. Rheumatoid arthritis	
	60	Osteoarthritis	
16	61	(i) Psoriasis	study of oxygen level using pulse oximeter
	62	Scabies	
	63	Eczema	
	64	. (j) Depression	
17	65	Anxiety	study of auxiliar label
	66	Psychosis	
	67	Psychosis	
	68	Conjunctivitis	
18	69	Glaucoma	study of dispensing
	70	(l) Anti – microbial resistant	
	71	Anti – microbial resistant	
	72	polycystic ovary syndrome	
19	73	Dysmenorrhea	counselling of diabetes
	74	Premenstrual Syndrome	
	75	Premenstrual Syndrome	
	76	revision	
20	77	revision	
	78	revision	

LESSION PLAN		
Department of pharmacy		
Name of Faculty: kavita		
Name of Subject: Pharmacy law and ethics		
Lesson Plan Duration:20/AUG2024- 09-MAY-2025		
Semester: 2nd year		
Week	Lecture	Topics to be covered (Theory)
1	1	General principles of law and history
	2	licencing authority
	3	Objectives, definitions, pharmacy council of India, its constitution and functions
	4	Education regulations, state and joint state pharmacy councils
2	5	Registration of pharmacists
	6	Offences and penalties
	7	Pharmacy practice regulations 2015
	8	Objectives, definitions
3	9	Legal definition of schedule to the act and rules
	10	Import of drugs- classes of drugs and cosmetics prohibited from import
	11	Import under license or permit
	12	Manufacture of drugs
4	13	Prohibition of manufacture and sale of certain drugs
	14	Conditions for grant of license and conditions of license for manufacture of drugs
	15	Manufacture of drugs for test
	16	Examination and analysis
5	17	Manufacture of new drug
	18	Loan license and repacking license
	19	Study of schedule C and C1, G, H, H1, K, P, M, N, and X
	20	Sale of drugs
6	21	Wholesale, retail sale and restricted license
	22	Records to be kept in a pharmacy drugs prohibited for manufacture and sale in India
	23	Administration of the act and rules
	24	Drug technical advisory board
7	25	Central drug laboratory
	26	Drugs consultative committee
	27	central drug laboratory
	28	Government analysts
8	29	Licensing authorities
	30	Controlling authorities
	31	Drug inspectors
	32	Objectives, definitions, authorities and officers, prohibition

9	33	Control and regulation, Offences and penalties
	34	Objectives, definitions, prohibition of certain advertisements
	35	Classes of exempted advertisements, offences and penalties
	36	Objectives, definitions, CPCSEA – brief overview,
10	37	Performance of experiment, transfer and acquisition of animals
	38	Introduction, objective, definition, possession
	39	Possession for sale and sale of any poison, import of poisons
	40	Brief overview and aspects related to manufacture, storage
11	41	Sale and labelling of food supplements
	42	Drugs price control order (DPCO)-2013
	43	Objectives, definitions, sale prices of bulk drugs
	44	Retail price of formulations
12	45	Retail price and ceiling price of scheduled formulations
	46	Pharmaceutical policy 2002, national list of essential medicines (NLEM)
	47	Definition, ethical principles
	48	Government analysts
13	49	Registration, code of ethics for pharmacist in relation to his job, trade
	50	Medical profession and his profession
	51	Pharmacist's oath
	52	Medical termination of pregnancy act and rules – basic understanding
14	53	Salient features, and amendments
	54	Role of all the government pharmaceutical regulatory bodies,
	55	Good regulatory practices (documentation, licenses,)
	56	Hospital pharmacy, pharmaceutical manufacturing, wholesale business
15	57	Inspection, import, export of drugs and medical devices
	58	pharmacist oath
	59	role of pharmacist
	60	ANDA, NDA, new drug development
	61	New drugs and clinical trials rules 2019

16	62	patient information about law
	63	Tradenameconcept,introductiontopatentlawandintell ectualpropertyrights
	64	Emergencyuseauthorization
17	65	basic requirement and function
	66	. Bloodbank
	67	Basicrequirementsandfunctions
	68	Clinicalestablishmentactandrules
18	69	Aspectsrelatedtopharmacy
	70	Biomedicalwastemanagementrules2016,basicaspects
	71	breif information about ICMR
	72	Bioethics,basicconcepts,historyandprinciples
19	73	BriefoverviewofICMR'snationalethicalguidelinesforBio medical
	74	involvinghumanparticipants
	75	Introductiontotheconsumerprotection act
	76	Revision
20	77	Revision
	78	Revision

LESSION PLAN			
Department of pharmacy			
Name of Faculty: navneet kaur			
Name of Subjec; pharmacology			
Lesson Plan Duration:20/AUG2024- 09-MAY-2025			
Semester: 2nd year			
Week	Lecture	Topics to be covered (Theory)	Pracitcal
1	1	Introduction, Scope of Pharmacology	study of local anaesthetic on rabbit eye
	2	Drug: autonomic nervous system	
	3	Cholinergic drugs	
	4	Anti-cholinesterase drugs	
2	5	Anti-cholinergic drug,	study of mydriatic effect on rabbit eye
	6	Adrenergic drugs	
	7	Adrenergic receptor blockers	
	8	Neuron & Ganglion blockers	
3	9	Drug used in myasthenia gravis	study of miotic effect on rabbit eye
	10	Mydriatics, Drugs in Glaucoma	
	11	Neuromuscular blockers,	
	12	CNS, General, local Anesthetics	
4	13	Analgesic and antipyretics	effect of analgesics using analgesiometer
	14	Sedatives and Hypnotics	
	15	Psychopharmacological agents	
	16	Narcotic analgesics	
5	17	Convulsants	study of analgesic activity by writhing test
	18	Centrally acting muscle relaxants	
	19	Anti Parkinsonism agents	
	20	Cardiotonic	
6	21	Antiarrhythmic	screening of anti convulsant using electroconvulsimeter
	22	Antianginal	
	23	Antihypertensive	
	24	Peripheral Vasodilator	
7	25	Atherosclerosis	screening of muscle relaxant using rota rod apparatus
	26	Drugs: respiratory system	
	27	Histamine	
	28	Anti Rheumatic and anti gout	
8	29	Haematinics	screening of CNS stimulant and depressant using actophotometer
	30	Coagulant and Anticoagulant	
	31	Drugs acting on Blood	
	32	Diuretics and Antidiuretics	
9	33	Hypoglycemic Agents	study of anxiolytic activity using elevated pulse maze method
	34	Antithyroid Drug	
	35	Antidiarrhoeal	

	36	EmeticandAntiemetic	
10	37	Antispasmodic	study of effect of drugon isolated heart
	38	CarminativeandDigestantBitters	
	39	Diuretics	
	40	Antacid	
11	41	AntiDiuretics	effect of drug on ciliary motility on frogs buccal cavity
	42	Corticosteroids	
	43	SexHormones	
	44	OralContraceptive	
12	45	IntroductiontoChemotherapy	pyrogen testing by rabbit method
	46	UrinaryAntiseptic	
	47	Suiphonamides	
	48	Penicillin	
13	49	Streptomycin	study of antipsychotic drugs using cooks pole climbing apparatus
	50	Tetracycline	
	51	AntitubercularDrug	
	52	AntifungalDrug	
14	53	AntiviralDrug	study of analgesic activity using hot plate apparatus
	54	Sulphonamides	
	55	Penicillin	
	56	Streptomycin	
15	57	Tetracycline	study effect of insulin and alloxan on blood sugar level
	58	AntitubercularDrug	
	59	AntifungalDrug	
	60	AntiviralDrug	
16	61	AntiviralDrug	study anti inflammatory activity using carrageenan induced paw oedema method
	62	ChemotherapyProtozoalDisease	
	63	ChemotherapyProtozoalDisease	
	64	Anthelmintic	
17	65	CancerChemotherapy	study of diuretics activity using metabolic cage
	66	Antiseptic	
	67	Disinfectant	
	68	Routesofadministrationof drugs	
18	69	Routesofadministrationof drugs	study of anti ulcer activity by using pylorus ligation methods
	70	Theiradvantageand disadvantages	
	71	Absorptionofdrugs andthe	
	72	factorsaffectingDrugabsorption,	
19	73	DrugMetabolism,	study of analgesic activity by using tale flick apparatus
	74	Distributionand excretionofdrug	

	75	Generalmechanism:drugsaction	
	76	Revision	
20	77	Revision	
	78	Revision	

LESSION PLAN			
Department of pharmacy			
Name of Faculty: preeti bansal			
Name of Subject: community pharmacy and management			
Semester: 2nd year			
Week	Lecture	Topics to be covered (Theory)	Practical
1	1	Definition and history of community pharmacy	soap of hypertension
	2	Development of community pharmacy – international and indian scenarios	
	3	Professional responsibilities of community pharmacists	
	4	Professional responsibilities of community pharmacy	
2	5	Introduction to the concept of good pharmacy practice and SOPs	soap of angina pectoris
	6	Definition and parts of prescription	
	7	Legality of prescription	
	8	Prescription handling	
3	9	Labelling of dispensed medications (Main label, ancillary label, pictograms)	soap of myocardial infraction
	10	Brief instructions of medication usage	
	11	Dispensing process and good dispensing practice	
	12	Dispensing errors and strategies to minimize them	
4	13	Definition and types of communication skills	soap of hyperlipidaemia
	14	Interactions with professional and patients	
	15	Verbal communication skills (one to one, over the telephone)	
	16	Written communication skills	
5	17	Body language	soap of rheumatoid arthritis
	18	Patient interview techniques	
	19	Definition and benefits of patient counselling	
	20	Introduction and counselling content	
6	21	Counselling process and closing the counselling session	soap of asthma
	22	Types and strategies to overcome the barriers	
	23	Hypertension and Diabetes	
	24	Tuberculosis and AIDS	
	25	Chronic obstructive pulmonary disease	soap of COPD
	26	Definition, importants and benefits of patient package inserts	

7	27	Scenarios of PPI use in India and other countries	
	28	Definition and uses of patient information leaflets	
8	29	. Definition and factors influencing non adherence	soap of diabetes
	30	Strategies to overcome non adherence	
	31	Introduction and scope of health screening services in community pharmacy	
	32	Importance of various health screening services – for routine monitoring of patients	
9	33	Importance of various health screening services – for routine monitoring of patients	soap of epilepsy
	34	Early detection and referral of undiagnosed cases	
	35	Early detection and referral of undiagnosed cases	
	36	Definition and need of over the counter (OTC) medications	
10	37	Definition and need of the counter medications	soap of stroke
	38	Role of pharmacists in OTC medication dispensing	
	39	Role of pharmacists in OTC medication dispensing	
	40	Over the counter medications in India	
11	41	Over the counter medications in India	soap of depreeson
	42	Counselling for over the counter medications	
	43	. Counselling for over the counter medications	
	44	Self medications and role of pharmacists in promoting the safe practices during self medications	
12	45	Self medications and role of pharmacists in promoting the safe practices during self medications	soap of TB
	46	Responding of symptoms , minor aliment and advice for self care in condition	
	47	Pain management, cough and fever	
	48	Cold, Diarrhea and sore throat	
	49	Constipation, vomiting and skin disorders	soap of animea

13	50	Oral health (mouth ulcers, dental pain, gum swelling)	
	51	Legal requirements to set up a community pharmacy	
	52	Legal requirements to set up a community pharmacy	
14	53	Site selection requirement of community pharmacy management	soap of viral infection
	54	Site selection requirement of community pharmacy management	
	55	Pharmacy designs and interiors	
	56	Pharmacy designs and interiors	
15	57	Vendor selection and ordering	soap of dermatology
	58	Vendor selection and ordering	
	59	Procurement and inventory control methods	
	60	Procurement and inventory control methods	
16	61	<i>Procurement and inventory control methods</i>	patient counselling on angina pectoris
	62	Financial planning and management	
	63	Financial planning and management	
	64	Accountancy in community pharmacy – Day book and cash book	
17	65	Accountancy in community pharmacy – Day book and cash book	patient counselling on diabetes
	66	Introduction to pharmacy operation softwares – usefulness and availability	
	67	Introduction to pharmacy operation softwares – usefulness and availability	
	68	Customer relationship management (CRM)	
18	69	Customer relationship management (CRM)	patient counselling on asthma
	70	Audits in pharmacies	
	71	Audits in pharmacies	
	72	SOP in pharmacy management	
19	73	SOP in pharmacy management	patient counselling on TB
	74	Introduction to digital health , mHealth and online pharmacies	
	75	Introduction to digital health , mHealth and online pharmacies	
	76	Revision	
20	77	Revision	
	78	Revision	