

JANTA COLLEGE OF PHARMACY, BUTANA (SONEPAT)

LESSON PLAN

Name of the Faculty : Preeti Devi

Discipline : Diploma in Pharmacy

Year : 2nd

Subject : Pharmacy Law and Ethics

Lesson Plan Duration : 25 weeks (from September, 2022 to May, 2023) (According to Syllabus Scheme)

Work load (Lecture/Practical) per week (in hours) : Lectures-03 (hr).

Week	Theory	
	Lecture Day	Topic (including assignment/test)
1st	1st	General Principles of Law
	2nd	History
	2nd	Various Acts related to Drugs and Pharmacy profession
	3rd	Pharmacy Act-1948 and Rules: Objectives, Definitions, Pharmacy Council of India
2nd	1st	State and Joint state pharmacy councils
	2nd	Registration of Pharmacists
	3rd	D & C Act 1940 and Rules 1945 and New Amendments Objectives, Definitions
3rd	1st	Import of drugs – Classes of drugs
	2nd	Manufacture of drugs – Prohibition of manufacture and sale of certain drugs
	3rd	Study of schedule C and C1, G, H, H1, K, P, M, N, and X.
4th	1st	Records to be kept in a pharmacy
	2nd	Drugs Prohibited for manufacture and sale in India
5th	1st	Administration of the Act and Rules – Drugs Technical Advisory Board
	2nd	Central Drugs Laboratory
	2nd	Drugs Consultative Committee
6th	1st	Government analysts
	1st	Licensing authorities
	1st	Controlling authorities, Drug Inspectors.
	2nd	NDPS Act 1985 and Rules Objectives, Definitions, Authorities and Officers
	2nd	Prohibition, Control and Regulation, Offences and Penalties
	2nd	Drugs and Magic Remedies Act 1954 Objectives, Definitions
7th	1st	Prohibition of certain advertisements, Classes of Exempted advertisements

	2nd	Offences and Penalties
8th	1st	Prevention of Cruelty to Animals Act-1960: Objectives, Definitions
	2nd	CPCSEA - brief overview, Institutional Animal Ethics Committee
9th	1st	Breeding and Stocking of Animals
	1st	Performance of Experiments, Transfer and Acquisition of animals for experiment
	2nd	Records, Power to suspend or revoke registration,
	2nd	Offences and Penalties.
10th	3rd	Poisons Act-1919: Introduction, objective, definition, possession
	1st	possession for sales and sale of any poison, import of poisons
	1st	FSSAI Act and Rules: brief overview
	2nd	Aspects related to manufacture, storage, sale, and labelling of Food Supplements
	2nd	(DPCO) - 2013. Objectives, Definitions
11th	3rd	Sale prices of bulk drugs, Retail price of formulations
	1st	Retail price and ceiling price of scheduled formulations
12th	2nd	Pharmaceutical Policy 2002
	1st	National List of Essential Medicines (NLEM)
13th	1st	Code of Pharmaceutical Ethics: Definition, ethical principles
	2nd	Ethical problem solving, registration
	3rd	Code of ethics for Pharmacist in relation to his job, trade
14th	1st	Medical profession and his profession
	1st	Pharmacist's oath
	2nd	Medical Termination of Pregnancy Act and Rules – basic understanding
	2nd	Salient features, and Amendments
	2nd	(CDSCO), (IPC)
	3rd	Good Regulatory practices in Community Pharmacy,
15th	3rd	Hospital pharmacy, Pharma Manufacturing, Wholesale business
	1st	Inspections, import, export of drugs and medical devices
	2nd	Introduction to BCS system of classification,
16th	3rd	Basic concepts of Clinical Trials, ANDA, NDA, New Drug development
	1st	New Drugs and Clinical Trials Rules, 2019
	2nd	Brand v/s Generic, Trade name concept,
17th	3rd	Introduction to Patent Law and Intellectual Property Rights
	1st	Emergency Use Authorization
	2nd	Blood bank – basic requirements and functions
	3rd	Blood bank – basic requirements and functions

18th	1st	Clinical Establishment Act and Rules
	2nd	Aspects related to Pharmacy
	3rd	Biomedical Waste Management Rules 2016
19th	1st	Medical waste at homes, pharmacies, and hospitals
	1st	Bioethics - Basic concepts, history and principles
	2nd	Health Research involving human participants
20th	3rd	Introduction to the Consumer Protection Act
	1st	Introduction to the Disaster Management Act
21th	2nd	Medical Devices – Categorization
	3rd	Basic aspects related to manufacture and sale

JANTA COLLEGE OF PHARMACY, BUTANA (SONEPAT)

LESSON PLAN

Name of the Faculty : Dr. Braham Dutt

Discipline : Diploma in Pharmacy

Year : 2nd

Subject : Pharmacotherapeutics

Lesson Plan Duration : 25 weeks (from September, 2022 to May, 2023) (According to Syllabus Scheme)

Work load (Lecture/Practical) per week (in hours) : Lectures-03(hr), Practicals-01(hr)

Week	Theory		Practical	
	Lecture Day	Topic (including assignment/test)	Practical Day	Topic
1st	1st	Pharmacotherapeutics: Introduction scope, and objectives (Chapter 1)	1st	Preparation and discussion of SOAP notes for Hypertension condition.
	2nd	Rational use of Medicines		
	3rd	Evidence Based Medicine		
2nd	1st	Essential Medicines List	2nd	Preparation and discussion of SOAP notes for Angina Pectoris condition.
	2nd	Essential Medicines List		
	3rd	Standard Treatment Guidelines		
3rd	1st	Standard Treatment Guidelines	3rd	Preparation and discussion of SOAP notes for Myocardial Infarction condition.
	2nd	Unit test		
	3rd	(a) Cardiovascular System (Chapter 2)		
4th	1st	Hypertension	4th	Preparation and discussion of SOAP notes for Hyperlipidaemia condition.
	2nd	Hypertension		
	3rd	Angina and Myocardial infarction		
5th	1st	Angina and Myocardial infarction	5th	Preparation and discussion of SOAP notes for Rheumatoid arthritis condition.
	2nd	Hyperlipidaemia		
	3rd	Hyperlipidaemia		
6th	1st	Congestive Heart Failure	6th	Preparation and discussion of SOAP notes for Asthma condition.
	2nd	(b) Respiratory system		
	3rd	Asthma		
7th	1st	COPD	7th	Preparation and discussion of SOAP notes for COPD condition.
	2nd	COPD		
	3rd	(c) Endocrine System, Diabetes		
	1st	Diabetes		

8th	2nd	Thyroid disorders	8th	Preparation and discussion of SOAP notes for Diabetes condition.
	3rd	Hypo and Hyperthyroidism		
9th	1st	Hypo and Hyperthyroidism	9th	Preparation and discussion of SOAP notes for Epilepsy condition.
	2nd	(d) Central Nervous System		
	3rd	Epilepsy		
10th	1st	Parkinson's disease	10th	Preparation and discussion of SOAP notes for Stroke condition.
	2nd	Parkinson's disease		
	3rd	Alzheimer's disease		
11th	1st	Stroke	11th	Preparation and discussion of SOAP notes for Depression condition.
	2nd	Stroke		
	3rd	Migraine		
12th	1st	(e) Gastro Intestinal Disorders	12th	Preparation and discussion of SOAP notes for Tuberculosis condition.
	2nd	Gastro oesophageal reflux disease		
	3rd	Peptic Ulcer Disease		
13th	1st	Peptic Ulcer Disease	13th	Preparation and discussion of SOAP notes for Anaemia condition.
	2nd	Alcoholic liver disease		
	3rd	Inflammatory Bowel Diseases		
14th	1st	Crohn's Disease	14th	Preparation and discussion of SOAP notes for Viral infection condition.
	2nd	Ulcerative Colitis		
	3rd	(f) Haematological disorders		
15th	1st	Iron deficiency anaemia	15th	Preparation and discussion of SOAP notes for Dermatological condition.
	2nd	Megaloblastic anaemia		
	3rd	Megaloblastic anaemia		
16th	1st	(g) Infectious diseases, Tuberculosis	16th	Patient counselling exercises using role plays based on the real / hypothetical clinical case scenarios
	2nd	Tuberculosis		
	3rd	Pneumonia		
17th	1st	Pneumonia	17th	Patient counselling exercises using role plays based on the real / hypothetical clinical case scenarios
	2nd	Urinary tract infections		
	3rd	Urinary tract infections		
18th	1st	Hepatitis	18th	Patient counselling exercises using role plays based on the real / hypothetical clinical case scenarios
	2nd	Hepatitis		
	3rd	Gonorrhoea and Syphilis		
19th	1st	Malaria	19th	Patient counselling exercises using role plays based on the real / hypothetical clinical case scenarios
	2nd	HIV and Opportunistic infections		
	3rd	Viral Infections (SARS, CoV2)		

20th	1st	(h) Musculoskeletal disorders, Rheumatoid arthritis	20th	Patient counselling exercises using role plays based on the real / hypothetical clinical case scenarios
	2nd	Rheumatoid arthritis		
	3rd	Osteoarthritis		
21th	1st	(i) Dermatology, Psoriasis	21th	Simulated cases to enable dose calculation of selected drugs in paediatrics, and geriatrics under various pathological conditions.
	2nd	Scabies		
	3rd	Eczema		
22th	1st	(j) Psychiatric Disorders, Depression	22th	Simulated cases to enable dose calculation of selected drugs in paediatrics, and geriatrics under various pathological conditions.
	2nd	Anxiety		
	3rd	Psychosis		
23th	1st	Psychosis	23th	Simulated cases to enable dose calculation of selected drugs in paediatrics, and geriatrics under various pathological conditions.
	2nd	(k) Ophthalmology, Conjunctivitis (bacterial and viral)		
	3rd	Glaucoma		
24th	1st	(l) Anti-microbial Resistance	24th	Simulated cases to enable dose calculation of selected drugs in paediatrics, and geriatrics under various pathological conditions.
	2nd	Anti-microbial Resistance		
	3rd	(m) Women's Health		
25th	1st	Polycystic Ovary Syndrome	25th	Simulated cases to enable dose calculation of selected drugs in paediatrics, and geriatrics under various pathological conditions.
	2nd	Dysmenorrhea		
	3rd	Premenstrual Syndrome		

JANTA COLLEGE OF PHARMACY, BUTANA (SONEPAT)

LESSON PLAN

Name of the Faculty : Vinesh Dahiya

Discipline : Diploma in Pharmacy

Year : 2nd

Subject : Pharmacology

Lesson Plan Duration : 25 weeks (from September, 2022 to May, 2023) (According to Syllabus Scheme)

Work load (Lecture/Practical) per week (in hours) : Lectures-03(hr), Practicals-02(hr)

Week	Theory		Practical	
	Lecture Day	Topic (including assignment/test)	Practical Day	Topic
1st	1st	Pharmacology: Introduction scope (Chapter 1)	1st	introduction to experimental pharmacology
	2nd	Various routes of drug administration-advantages and disadvantages		
	3rd	Drug absorption- definition, type, factors affecting drug absorption		
2nd	1st	bioavailability and the factors affecting bioavailability	2nd	introduction to experimental pharmacology
	2nd	drug distribution- definition, factors affecting drug distribution		
	3rd	biotransformation of drugs- definition, types of biotransformation reactions, factors affecting		
3rd	1st	excretion of drugs- definition, routes of drug of drug excretion	3rd	introduction to experimental pharmacology
	2nd	general mechanisms of drug action and factors modifying drug action		
	3rd	Peripheral nervous system drugs: steps involved in neurohumoral transmission		
4th	1st	Definition, classification, pharmacological actions, dose, indications, and contraindications	4th	introduction to experimental pharmacology
	2nd	b) anti-cholinergic drugs		
	3rd	c) adrenergic drugs		
5th	1st	d) anti-adrenergic drugs	5th	study of laboratory animals a) mice b) rats c) guinea pigs d) rabbits
	2nd	e) neuromuscular blocking agents		
	3rd	f) Drugs used in myasthenia gravis		
6th	1st	g) local anaesthetic agents	6th	study of laboratory animals a) mice b) rats c) guinea pigs d) rabbits
	2nd	h) non-steroidal anti-inflammatory drugs (NSAIDs)		
	3rd	Drugs acting on the eye: Definition, classification, pharmacological actions, dose, indications		
7th	1st	miotics	7th	study of laboratory animals a) mice b) rats c) guinea pigs d) rabbits
	2nd	mydriatics		
	3rd	drugs used in glaucoma		
	1st	Drugs acting on the central nervous system: Definition, classification, pharmacological actions, dose, indications		

8th	2nd	general anaesthetics	8th	study of laboratory animals a) mice b) rats c) guinea pigs d) rabbitsn.
	3rd	hypnotics and sedatives		
9th	1st	anti-convulsants	9th	commonly used instruments in experimental pharmacology
	2nd	anti-anxiety		
	3rd	anti-depressant		
10th	1st	nootropic agents	10th	commonly used instruments in experimental pharmacology
	2nd	centrally acting muscle relaxants		
	3rd	opoid analgesics		
11th	1st	Cardiovascular system drugs: anti-hypertensives	11th	commonly used instruments in experimental pharmacology
	2nd	anti-anginal		
	3rd	anti-arrythmics		
12th	1st	atherosclerosis	12th	commonly used instruments in experimental pharmacology
	2nd	Congestive Heart Failure		
	3rd	drug therapy for shock		
13th	1st	hematinic agents	13th	different routes of administration of drugs in animals
	2nd	Anti-coagulants		
	3rd	anti-platelets		
14th	1st	thrombolytic drugs	14th	different routes of administration of drugs in animals
	2nd	Definition, classification, pharmacological actions, dose, indications, and contraindications		
	3rd	bronchodilators		
15th	1st	expectorants	15th	different routes of administration of drugs in animals
	2nd	anti-tussive agents		
	3rd	mucolytic agets		
16th	1st	Drugs acting on the Gastro Intestinal tract: anti-ulcer drugs	16th	different routes of administration of drugs in animals
	2nd	anti-emetics		
	3rd	laxative and purgatives		
17th	1st	anti-diarrheal drugs	17th	types of pre-clinical experiments: in-vivo, in-vitro, Ex-vivo, etc. clinical case scenarios
	2nd	Drugs acting on the kidney: diuretics		
	3rd	anti-diuretics		
18th	1st	Malarial Parasite (P. Vivax and P. Falciparum) (8th unit)	18th	types of pre-clinical experiments: in-vivo, in-vitro, Ex-vivo, etc. clinical case scenarios
	2nd	Hormones and hormone antagonists: physiological and pathological role and clinical u		
	3rd	thyroid hormones		
19th	1st	anti-thyroid drugs	19th	types of pre-clinical experiments: in-vivo, in-vitro, Ex-vivo, etc. clinical case scenarios
	2nd	parathromone		
	3rd	calcitonin		

20th	1st	vitamin D	20th	types of pre-clinical experiments: in-vivo, in-vitro, Ex-vivo, etc. clinical case scenarios
	2nd	insulin		
	3rd	oral hypoglycemic agents		
21th	1st	estrogen	21th	techniques of blood collection from animals
	2nd	progesterone		
	3rd	oxytocin		
22th	1st	corticosteroids	22th	techniques of blood collection from animals
	2nd	Autocoids: physiological role of Histamine, 5 HT and prostaglandins		
	3rd	classification, clinical uses and adverse effects of antihistamines and %HT anatgonists		
23th	1st	Chemotherapeutic agents: Introduction, basic principles of chemotherapy of infestatic	23th	techniques of blood collection from animals
	2nd	penicillins, cephalosporins		
	3rd	aminoglycosides, fluoroquinolones		
24th	1st	macrolides, tetracyclines	24th	techniques of blood collection from animals
	2nd	sulphonamides, anti-tubercular drugs		
	3rd	anti-fungal drugs, anti-viral drugs		
25th	1st	anti-amoebic agents, anthelmintics	25th	techniques of blood collection from animals
	2nd	anti-malarial agents		
	3rd	anti-neoplastic agents		

JANTA COLLEGE OF PHARMACY, BUTANA (SONEPAT)

LESSON PLAN

Name of the Faculty : Dr. Pradeep Sangwan

Discipline : Diploma in Pharmacy

Year : 2nd

Subject : BIOCHEMISTRY & CLINICAL PATHOLOGY

Lesson Plan Duration : 25 weeks (from September, 2022 to May, 2023) (According to Syllabus Scheme)

Work load (Lecture/Practical) per week (in hours) : Lectures-03(hr), Practicals-02(hr)

Week	Theory		Practical	
	Lecture Day	Topic (including assignment/test)	Practical Day	Topic
		Introduction to biochemistry		
1st	1st	Introduction	1st	Qualitative analysis of unknown sample carbohydrates
	2nd	Scope of biochemistry in pharmacy; Cell and its biochemical organization.		
		Carbohydrates		
	3rd	Carbohydrates:-Definition, classification with examples, chemical properties		
2nd	1st	Monosaccharides - Structure of glucose, fructose, and galactose	2nd	Qualitative analysis of unknown sample carbohydrates
	2nd	Disaccharides - Structure of maltose, lactose, and sucrose		
	3rd	Polysaccharides - Chemical nature of starch and glycogen		
3rd	1st	Qualitative tests and biological role of carbohydrates	3rd	Qualitative analysis of unknown sample carbohydrates
		Proteins		
	2nd	Proteins:-Definition, classification of proteins based on, composition and solubility with examples		
	3rd	Definition, classification of amino acids based on chemical nature and nutritional requirements with examples		
4th	1st	Structure of proteins (four levels of organization of protein structure)	4th	Qualitative analysis of unknown sample carbohydrates
	2nd	Qualitative tests and biological role of proteins and amino acids		
	3rd	Diseases related to malnutrition of proteins		
		Lipids		

5th	1st	Definition, classification with examples, Structure and properties of triglycerides (oils and fats)	5th	Qualitative analysis of unknown sample Proteins and amino acids
	2nd	Fatty acid classification - Based on chemical and nutritional requirements with examples		
	3rd	Structure and functions of cholesterol in the body		
6th	1st	Lipoproteins - types, composition and functions in the body	6th	Qualitative analysis of unknown sample Proteins and amino acids
	2nd	Qualitative tests and functions of lipids		
		Nucleic acids		
7th	1st	Definition, purine and pyrimidine bases	7th	Qualitative analysis of unknown sample Proteins and amino acids
	2nd	Components of nucleosides and nucleotides with examples		
	3rd	Structure of DNA (Watson and Crick model), and their function		
		Enzymes		
8th	1st	Structure of RNA, and their function	8th	Qualitative analysis of unknown sample Proteins and amino acids
	2nd	Definition, properties OF Enzyme		
	3rd	IUB and MB classification of enzyme		
9th	1st	Factors affecting enzyme activity	9th	Qualitative analysis of unknown sample lipids
	2nd	Mechanism of action of enzymes, Enzyme inhibitors		
	3rd	Therapeutic and pharmaceutical importance of enzymes		
		Vitamins		
10th	1st	Definition and classification with examples	10th	Qualitative analysis of unknown sample lipids
	2nd	Sources, chemical nature of Vitamins		
	3rd	Functions & coenzyme form Vitamins		
11th	1st	recommended dietary requirements of vitamins	11th	Qualitative analysis of urine for normal and abnormal constituents
	2nd	deficiency diseases of fat soluble vitamins		
	3rd	deficiency diseases of water soluble vitamins		
		Metabolism		
12th	1st	Metabolism of Carbohydrates	12th	Qualitative analysis of urine for normal and abnormal constituents
	2nd	Glycolysis		
	3rd	TCA cycle		
13th	1st	glycogen metabolism	13th	Qualitative analysis of urine for normal and abnormal constituents
	2nd	regulation of blood glucose		
	3rd	Diseases related to abnormal metabolism of Carbohydrates		

14th	1st	Metabolism of lipids Lipolysis	14th	Qualitative analysis of urine for normal and abnormal constituents
	2nd	β -oxidation of Fatty acid (Palmitic acid) ketogenesis		
	3rd	ketolysis.		
15th	1st	Diseases related to abnormal metabolism of lipids such as Ketoacidosis	15th	Determination of constituents of urine (glucose, creatinine
	2nd	Fatty liver		
	3rd	Hypercholesterolemia		
16th	1st	Metabolism of Amino acids (Proteins)	16th	Determination of constituents of urine (chlorides)
	2nd	General reactions of amino acids and its significance–Transamination		
	3rd	deamination		
17th	1st	Urea cycle and decarboxylation	17th	Determination of constituents of blood/serum (simulated) (Creatine)
	2nd	Diseases related to abnormal metabolism of amino acids		
	3rd	Disorders of ammoniametabolism, phenylketonuria, alkaptonuria and Jaundice		
18th	1st	Biological oxidation & Electron transport chain	18th	Determination of constituents of blood/serum (simulated) (Glucose)
	2nd	Oxidative phosphorylation		
	3rd	Minerals Minerals: Types		
19th	1st	Functions	19th	Determination of constituents of blood/serum (sim) (cholesterol)
	2nd	Deficiency diseases		
	3rd	recommended dietary requirements		
20th	1st	recommended dietary requirements	20th	Determination of constituents of blood/serum (sim) (calcium & urea)
	2nd	Water and Electrolytes Distribution, functions of water in the body		
	3rd	Water turnover and balance		
21th	1st	Electrolyte composition of the body fluids	21th	Determination of constituents of blood/serum (sim) (SGOT & SGPT)
	2nd	Dietary intake of electrolyte and Electrolyte balance		
	3rd	Dehydration, causes of dehydration and oral rehydration therapy		
22th		Introduction to Biotechnology	22th	Study the hydrolysis of starch from acid and salivary amylase enzyme
	1st	Introduction to Biotechnology		
	2nd	Organ function tests Functions of kidney		
23th	3rd	routinely performed tests to assess the function of kidney	23th	Practical Assignments
	1st	clinical significances of tests		
	2nd	Functions of liver and routinely performed tests to assess the functions of liver		
24th	3rd	clinical significances of tests	24th	Practical Assignments
	1st	Lipid profile tests and its clinical significances		

24th		Introduction to Pathology of Blood and Urine	25th	Practical Assignments
	2nd	Lymphocytes and Platelets		
	3rd	their role in health and disease		
25th	1st	Erythrocytes		
	2nd	Abnormal cells and their significance		
	3rd	Normal and Abnormal constituents of Urine and their significance		

JANTA COLLEGE OF PHARMACY, BUTANA (SONEPAT)

LESSON PLAN

Name of the Faculty : Mr. Anil Dahiya

Discipline : Diploma in Pharmacy

Year : 2nd

Subject : Hospital and clinical pharmacy

Lesson Plan Duration : 25 weeks (from September, 2022 to May, 2023) (According to Syllabus Scheme)

Work load (Lecture/Practical) per week (in hours) : Lectures-03(hr), Practicals-01(hr)

Week	Theory		Practical	
	Lecture Day	Topic (including assignment/test)	Practical Day	Topic
1st	1st	Definition, scope, national and international scenario	1st	Systematic approach to drug information queries
	2nd	Organisational structure		
	3rd	Professional responsibilities, Qualification and experience requirements		
2nd	1st	Good Pharmacy Practice (GPP) in hospital	2nd	Systematic approach to drug information queries
	2nd	Hospital Pharmacy Standards		
	3rd	Introduction to NAQS guidelines		
3rd	1st	Pharmacy and Therapeutics Committee	3rd	Interpretation of laboratory reports to optimize the drug therapy
	2nd	Pharmacy and Therapeutics Committee		
	3rd	Hospital Formulary		
4th	1st	Hospital Formulary	4th	Interpretation of laboratory reports to optimize the drug therapy
	2nd	Preparation of Drug lists		
	3rd	Preparation of Drug lists		
5th	1st	Procedures of Drug Purchases	5th	Filling up IPC's ADR Reporting Form
	2nd	Procedures of Drug Purchases		
	3rd	Inventory control techniques		
6th	1st	Inventory control techniques	6th	Filling up IPC's ADR Reporting Form
	2nd	Inventory Management of Central Drug Store		
	3rd	Inventory Management of Central Drug Store		
7th	1st	FEFO, FIFO methods	7th	Demonstration / simulated / hands-on experience
	2nd	FEFO, FIFO methods		
	3rd	Expiry drug removal and handling, and disposal		
8th	1st	Expiry drug removal and handling, and disposal	8th	Orthopaedic and Surgical Aids
	2nd	Documentation - purchase and inventory		

	3rd	Documentation - purchase and inventory		
9th	1st	Drug distribution	9th	Orthopaedic and Surgical Aids
	2nd	Drug distribution		
	3rd	Drug distribution		
10th	1st	Distribution of drugs to ICCU	10th	Different types of bandages
	2nd	Distribution of drugs to ICCU		
	3rd	Automated drug dispensing systems and devices		
11th	1st	Distribution of Narcotic and Psychotropic substances	11th	Different types of bandages
	2nd	Compounding in Hospitals.		
	3rd	Compounding in Hospitals.		
12th	1st	Compounding in Hospitals.	12th	Needles, syringes, catheters
	2nd	Compounding in Hospitals.		
	3rd	Radio Pharmaceuticals		
13th	1st	Radio Pharmaceuticals	13th	IV set, urine bag, RYLE's tube, urine pots
	2nd	Application of computers		
	3rd	Application of computers		
14th	1st	Clinical Pharmacy	14th	colostomy bags, oxygen masks
	2nd	Clinical Pharmacy		
	3rd	Technical definitions, common terminologies		
15th	1st	Technical definitions, common terminologies	15th	Case studies on drug-drug interactions
	2nd	Daily activities of clinical pharmacists		
	3rd	Ward round participation		
16th	1st	Treatment Chart Review	16th	Wound dressing (simulated cases and role play)
	2nd	Adverse drug reaction monitoring		
	3rd	Drug information and poisons information		
17th	1st	Medication history	17th	Wound dressing (simulated cases and role play)
	2nd	Patient counselling Interprofessional collaboration		
	3rd	Pharmaceutical care		
18th	1st	Clinical laboratory tests	18th	Vaccination and injection techniques
	2nd	Clinical laboratory tests		
	3rd	significance and interpretation of test results		
19th	1st	Haematological	19th	Vaccination and injection techniques
	2nd	Liver function		
	3rd	Renal function		
20th	1st	thyroid	20th	Vaccination and injection techniques
	2nd	Tests associated with cardiac disorders		

	3rd	Fluid and electrolyte balance		
21th	1st	Pulmonary Function Tests	21th	Vaccination and injection techniques
	2nd	Poisoning: Types of poisoning		
	3rd	Poisoning: Types of poisoning		
22th	1st	Poisoning: Types of poisoning	22th	Vaccination and injection techniques
	2nd	Drugs and Poison Information Centre		
	3rd	Drugs and Poison Information Centre		
23th	1st	Drugs and Poison Information Centre	23th	Use of Hospital Pharmacy Software
	2nd	Pharmacovigilance		
	3rd	Pharmacovigilance		
24th	1st	Medication errors	24th	Use of Hospital Pharmacy Software
	2nd	Medication errors		
	3rd	Medication errors		
25th	1st	Drug Interactions	25th	Use of Hospital Pharmacy Software
	2nd	Drug Interactions		
	3rd	Drug Interactions		

JANTA COLLEGE OF PHARMACY, BUTANA (SONEPAT)

LESSON PLAN

Name of the Faculty : Vinesh Dahiya

Discipline : Diploma in Pharmacy

Year : 2nd

Subject : Community pharmacy and management

Lesson Plan Duration : 25 weeks (from September, 2022 to May, 2023) (According to Syllabus Scheme)

Work load (Lecture/Practical) per week (in hours) : Lectures-03(hr), Practicals-03(hr)

Week	Theory		Practical	
	Lecture Day	Topic (including assignment/test)	Practical Day	Topic
1st	1st	Community pharmacy practice: definition, history (Chapter 1)	1st	handling of prescriptions with professional standards, reviewing prescriptions and checking legal compliance and completeness
	2nd	development of community pharmacy- international and indian scenarios		
	3rd	professional responsibilities of community pharmacists (Chapter 2)		
2nd	1st	introduction to the concept of good pharmacy practice	2nd	handling of prescriptions with professional standards, reviewing prescriptions and checking legal compliance and completeness
	2nd	SOP's		
	3rd	prescription and prescription handling (Chapter 3)		
3rd	1st	definition, parts of prescription, legality of prescriptions	3rd	handling of prescriptions with professional standards, reviewing prescriptions and checking legal compliance and completeness
	2nd	prescription handling, labelling of dispensed medications		
	3rd	brief instructions on medication usage		
4th	1st	dispensing process	4th	handling of prescriptions with professional standards, reviewing prescriptions and checking legal compliance and completeness
	2nd	good dispensing practices		
	3rd	dispensing errors and strategies to minimize them		
5th	1st	communication skills (Chapter 4): definition and types	5th	handling of prescriptions with professional standards, reviewing prescriptions and checking legal compliance and completeness
	2nd	interaction with professionals and patients		
	3rd	verbal communication skills		
6th	1st	written communication skills	6th	identification of drug-drug interactions in the prescription and follow up actions
	2nd	body language		
	3rd	patient interview techniques		
7th	1st	patient counselling (Chapter 5): definition and benefits	7th	identification of drug-drug interactions in the prescription and follow up actions
	2nd	stages of patient counselling: introduction, content, process and closing		
	3rd	barriers to effective counselling: types and strategies to overcome the barriers		
8th	1st	patient counselling for chronic diseases: hypertension, diabetes,	8th	Preparation of dispensing labels and auxiliary labels for the prescribed
	2nd	asthma, tuberculosis		

	3rd	COPD and AIDS		
9th	1st	patient package inserts: definition, importance and benefits	9th	Preparation of dispensing labels and auxiliary labels for the prescribed
	2nd	scenarios of PPI use in India and other countries		
	3rd	patient information leaflets: definition		
10th	1st	medication adherence (Chapter 6): definition, factors influencing non-adherence	10th	Preparation of dispensing labels and auxiliary labels for the prescribed
	2nd	strategies to overcome non adherence		
	3rd	health screening services in community pharmacy (Chapter 7): introduction		
11th	1st	scope	11th	Preparation of dispensing labels and auxiliary labels for the prescribed
	2nd	importance of various health screening services: for routine monitoring of patients		
	3rd	importance of various health screening services: early detection		
12th	1st	importance of various health screening services: referral of undiagnosed cases	12th	Preparation of dispensing labels and auxiliary labels for the prescribed
	2nd	OTC medications (chapter 9): definition		
	3rd	need and role of pharmacists in OTC medication dispensing		
13th	1st	counseling for OTC products	13th	Health screening for monitoring patients and detecting new patients
	2nd	self medication		
	3rd	role of pharmacists in promoting the safe practices during self medication		
14th	1st	responding to symptoms	14th	Health screening for monitoring patients and detecting new patients
	2nd	responding to minor ailments		
	3rd	advice for self care in conditions such as- pain management, cough		
15th	1st	advice for self care in conditions such as- cold, diarrhea	15th	Health screening for monitoring patients and detecting new patients
	2nd	advice for self care in conditions such as- constipation		
	3rd	advice for self care in conditions such as- vomiting		
16th	1st	advice for self care in conditions such as- fever, sore throat	16th	counselling to patients on the following diseases with education of patients about the devices used
	2nd	advice for self care in conditions such as- skin disorders		
	3rd	advice for self care in conditions such as- oral health		
17th	1st	Community pharmacy management (chapter 10): legal requirements to set up community pharmacy	17th	counselling to patients on the following diseases with education of patients about the devices used
	2nd	site selection requirements		
	3rd	site selection requirements		
18th	1st	site selection requirements	18th	providing counselling to simulated patients for minor ailments
	2nd	pharmacy designs and interiors		
	3rd	pharmacy designs and interiors		
19th	1st	pharmacy designs and interiors	19th	providing counselling to simulated patients for minor ailments
	2nd	vendor selection and ordering		
	3rd	vendor selection and ordering		
	1st	vendor selection and ordering		

20th	2nd	procurement, inventory control methods and inventory management	20th	providing counselling to simulated patients for minor ailments
	3rd	procurement, inventory control methods and inventory management		
21th	1st	procurement, inventory control methods and inventory management	21th	providing counselling to simulated patients for minor ailments
	2nd	procurement, inventory control methods and inventory management		
	3rd	financial planning and management		
22th	1st	financial planning and management	22th	appropriate dummy dosage form handling
	2nd	accountancy- day book, cash book		
	3rd	accountancy- day book, cash book		
23th	1st	introduction to pharmacy operations- usefulness and availability	23th	appropriate dummy dosage form handling
	2nd	introduction to pharmacy operations- usefulness and availability		
	3rd	customer relation mangement (CRM)		
24th	1st	customer relation mangement (CRM)	24th	use of community pharmacy software and digital health tools
	2nd	audits in pharmacies		
	3rd	audits in pharmacies		
25th	1st	SOP of pharmacy management	25th	use of community pharmacy software and digital health tools
	2nd	SOP of pharmacy management		
	3rd	introduction to digital health, mhealth and online pharmacies		