

Ganpati Institute of Pharmacy, Bilaspur

Lesson Plan for Pharmacotherapeutics

S. No	Date of Lecture/ Tut.	Title of Lecture/Work Done in Tutorial
1	03/10/24	Introduction of Pharmacotherapeutics
2	05/10/24	Scope and Objectives of Pharmacotherapeutics
3	07/10/24	Rational use of Medicines
4	09/10/24	Evidence-Based Medicines
5	10/10/24	Essential Medicines List
6	14/10/24	Standard Treatment Guidelines (STGs)
7	16/10/24	Doubts of Unit 1
8	19/10/24	Revision of again Unit 1
9	28/10/24	Test of Unit 1
10	06/11/24	Introduction to the Cardiovascular System
11	07/11/24	Etiopathogenesis and clinical manifestations of Hypertension
12	09/11/24	Non-pharmacological and pharmacological management of Hypertension
13	11/11/24	Etiopathogenesis and clinical manifestations of Hyperlipidaemia
14	13/11/24	Non-pharmacological and pharmacological management of Hyperlipidaemia
15	18/11/24	Etiopathogenesis and clinical manifestations of Angina and Myocardial Infarction
16	20/11/24	pharmacological and non-pharmacological management of Angina and Myocardial Infarction
17	21/11/24	Pathogenesis, Clinical manifestations, pharmacological and non-pharmacological management of CHF
18	23/11/24	Doubts of Cardiovascular system
19	25/11/24	Oral test of cardiovascular diseases
20	27/11/24	Introduction to respiratory system
21	28/11/24	Etiopathogenesis and clinical manifestations of Asthma
22	30/11/24	Pharmacological and non-pharmacological management of Asthma
23	02/12/24	Introduction of COPD along with its Pathogenesis
24	04/12/24	Clinical manifestations, pharmacological and non-pharmacological management of COPD
25	05/12/24	Doubts and revision of respiratory system
26	07/12/24	Written test of hyperlipidemia and hypertension disease
27	09/12/24	Introduction of the endocrine system
28	11/12/24	Types of Diabetes, its pathogenesis, and clinical manifestations
29	12/12/24	Management of Diabetes
30	14/12/24	What is the thyroid gland its hormones
31	16/12/24	Lecture on Hypothyroidism
32	18/12/24	Lecture on Hyperthyroidism
33	19/12/24	Revision of endocrine system
34	21/12/24	Test of respiratory system
35	15/1/25	Introduction about CNS
36	16/1/25	Pathogenesis, symptoms, and causes of Epilepsy
37	18/0/25	Management of Epilepsy
38	20/1/25	Pathogenesis, symptoms, and causes of Parkinson's disease

39	22/1/25	Management of Parkinson's disease and a brief description of Alzheimer's disease
40	23/1/25	Pathogenesis, symptoms, causes, and management of Alzheimer's disease
41	25/1/25	Stroke pathogenesis, symptoms, and causes
42	27/1/25	Management of Stroke and Description of Migraine
43	29/1/25	Pathogenesis, symptoms, causes, and management of Migraine
44	30/1/25	Revision of CNS
45	01/2/25	Oral test of CNS diseases
46	03/2/25	Introduction to GIT disorders
47	05/2/25	Definition, pathogenesis, clinical manifestations, and management of gastroesophageal reflux diseases
48	06/2/25	Definition, pathogenesis, clinical manifestations, and management of Peptic ulcer disease
49	08/2/25	Definition, pathogenesis, clinical manifestations, and management of alcoholic liver disease
50	10/2/25	Introduction of Inflammatory Bowel disease along with Crohn's disease
51	13/2/25	Definition, pathogenesis, clinical manifestations, and management of Ulcerative colitis
52	15/2/25	Introduction to Hematological disorders
53	17/2/25	Definition, pathogenesis, clinical manifestations, and management of iron deficiency anemia
54	19/2/25	Definition, pathogenesis, clinical manifestations, and management of Megaloblastic anemia
55	20/2/25	Antimicrobial drug resistance
56	22/2/25	Definition, pathogenesis, clinical manifestations, and management of Rheumatoid arthritis
57	24/2/25	Definition, pathogenesis, clinical manifestations, and management of Osteoarthritis
58	27/2/25	Doubts of Hematological and GIT disorders
59	01/3/25	Definition, pathogenesis, clinical manifestations, and management of Psoriasis
60	03/3/25	Definition, pathogenesis, clinical manifestations, and management of Scabies and Eczema
61	05/3/25	Definition, pathogenesis, clinical manifestations, and management of PCOS
62	06/3/25	Definition, pathogenesis, clinical manifestations, and management of Dysmenorrhea and premenstrual syndrome
63	08/3/25	Definition, pathogenesis, clinical manifestations, and management of Depression
64	10/3/25	Definition, pathogenesis, clinical manifestations, and management of Anxiety and Psychosis
65	12/3/25	Written test for Dysmenorrhea and PCOS
66		Definition, pathogenesis, clinical manifestations, and management of Conjunctivitis
67	15/3/25	Definition, pathogenesis, clinical manifestations, and management of Glaucoma
68	17/3/25	Introduction to Infectious Diseases
69	19/3/25	Definition, pathogenesis, clinical manifestations, and management of Tuberculosis
70	20/3/25	Definition, pathogenesis, clinical manifestations, and management of Pneumonia
71	22/3/25	Definition, pathogenesis, clinical manifestations, and management of UTI
72	24/3/25	Definition, clinical manifestations, and management of Malaria
73	27/3/25	Pathogenesis of Malaria
74	29/3/25	Definition, clinical manifestations, and management of Gonorrhea and Syphilis
75	31/3/25	Pathogenesis of Gonorrhea and Syphilis

76	5/4/25	Definition, pathogenesis, clinical manifestations, and management of Hepatitis
77	12/4/25	Definition, pathogenesis, clinical manifestations, and management of HIV and opportunistic infections
78	17/4/25	Definition, pathogenesis, clinical manifestations, and management of Viral infection (SARS, CoV2)
79	23/4/25	Doubts of Infectious Diseases
80	1/5/25	Test of Tuberculosis

Ganpati Institute of Pharmacy, Bilaspur

Lesson Plan for Biochemistry and Clinical Pathology

S. No	Date of Lecture/ Tut.	Title of Lecture/Work Done in Tutorial
1	1/10/24	Introduction to biochemistry
2	1/10/24	Scope of biochemistry in pharmacy;
3	4/10/24	Cell and its biochemical organization
4	7/10/24	Definition and classification of carbohydrates
5	8/10/24	Monosaccharides - Structure of glucose, fructose, and galactose
6	8/10/24	Disaccharides - structure of maltose, lactose, and sucrose
7	11/10/24	Polysaccharides - chemical nature of starch
8	14/10/24	Qualitative tests and the biological role of carbohydrates
9	15/10/24	Revision of Unit 2
10	18/10/24	Definition and classification of proteins
11	28/10/24	Definition and classification of amino acids
12	29/10/24	Structure of proteins
13	29/10/24	Qualitative tests and the biological role of proteins and amino acids
14	5/11/24	Definition, classification, with examples of lipids
15	5/11/24	Structure of lipids
16	8/11/24	Classification of fatty acid
17	11/11/24	Structure and function of cholesterol
18	12/11/24	Lipoproteins
19	12/11/24	Qualitative tests of lipids
20	18/11/24	Revision of lipid
21	19/11/24	Test of lipid
22	19/11/24	Introduction of biotechnology
23	22/11/24	Definition and classification of enzymes
24	25/11/24	Properties of enzymes
25	26/11/24	Factors affecting enzyme activity
26	26/11/24	Mechanism of action of the enzyme
27	2/12/24	Therapeutic importance of the enzyme
28	3/12/24	Pharmaceutical importance of the enzyme
29	3/12/24	Test of enzyme
30	6/12/24	Definition of nucleic acid
31	9/12/24	Components of nucleosides
32	10/12/24	Structure of RNA and DNA
33	13/12/24	Function of DNA and RNA
34	16/12/24	Revision of Nucleic acid
35	17/12/24	Test of Nucleic acid
36	17/12/24	Definition and classification of nucleic acids
37	20/12/24	Test of the unit first

38	17/1/25	Definition of minerals
39	20/1/25	Types and functions of minerals
40	21/1/25	Deficiency diseases of minerals
41	21/1/25	Recommended dietary requirements of minerals
42	24/1/25	Revision of minerals
43	27/1/25	Test of minerals
44	28/1/25	Introduction of water
45	28/1/25	Introduction of electrolytes
46	31/1/25	Distribution and functions of water in the body
47	3/2/25	Water turns over
48	4/2/25	Electrolyte composition in the body
49	4/2/25	Dietary intake of electrolytes
50	7/2/25	Dehydration and causes of dehydration
51	10/2/25	Introduction of the kidney
52	11/2/25	Routine performance tests to assess kidney function
53	11/2/25	Introduction of the liver
54	11/2/25	Routine performance tests to assess kidney function
55	14/2/25	Lipid profile test
56	18/2/25	Clinical significance of the liver and kidney function test
57	18/2/25	Revision of unit 12 th
58	21/2/25	Revision of unit 5 th
59	24/2/25	Test of nucleic acid
60	25/2/25	Revision of qualitative analysis of lipids
61	25/2/25	Definition and classification of vitamins
62	28/2/25	Sources of vitamins
63	3/3/25	Coenzymes, the chemical nature of enzymes
64	4/3/25	Metabolism of carbohydrates
65	4/3/25	Glycolysis, TCA cycle
66	7/3/25	Glycogen metabolism
67	10/3/25	Regulation of blood glucose level
68	11/3/25	Diseases related to abnormal metabolism of carbohydrates
69	11/3/25	Metabolism of lipids
70	17/3/25	Lipolysis, beta oxidation
71	18/3/25	Ketogenesis, ketolysis
72	18/3/25	Diseases related to lipid metabolism
73	21/3/25	Fatty liver
74	24/3/25	Hypercholesterolemia
75	25/3/25	Metabolism of lipids
76	25/3/25	Beta oxidation of fatty acids
77	28/3/25	Ketolysis revision
78	31/3/25	Diseases related to amino acid metabolism
79	1/4/25	Transamination, deamination and the urea cycle
80	1/4/25	Biological oxidation
81	4/4/25	ETC and oxidative phosphorylation
82	9/4/25	Test of carbohydrates metabolism
83	11/4/25	Test of lipids metabolism

84	15/4/25	Test of amino acid metabolism
85	15/4/25	Test of ETC
86	18/4/25	Introduction of the pathology of blood
87	21/4/25	Lymphocytes and platelets
88	22/4/25	Erythrocytes abnormal cell
89	22/4/25	Introduction of urine
90	24/4/25	Normal constituents of urine
91	28/4/25	Abnormal constituents of urine
92	1/5/25	Significance of Normal constituents of urine
93	5/5/25	Significance of abnormal constituents of urine
94	6/5/25	Test of pathology of blood

Lesson Plan for Pharmacology(ER-20-21T)

Sr.no	Date of Lecture/tutorial	Title of Lecture/Work done in Tutorial
1.	1-10-24	Introduction to pharmacology
2.	5-10-24	Scope of pharmacology
3.	7-10-24	Routes of administration of drugs
4.	9-10-24	Various processes of absorption of drugs
5.	11-10-24	factors affecting absorption of drugs
6.	14-10-24	Introduction of Bioavailability
7.	16-10-24	factors affecting Bioavailability
8.	18-10-24	Drug distribution
9.	19-10-24	factors affecting Drug distribution
10.	23-10-24	Biotransformation of Drug
11	25-10-24	factors affecting Drug Metabolism
12	26-10-24	Excretion of drugs.
13	28-10-24	General mechanism of drugs action
14.	2-11-24	factors which modify drugs action
15.	4-11-24	Drugs acting on eye
16.	6-11-24	Miotics
17.	7-11-24	Mydriatics
18	9-11-24	drugs used in glaucoma
19.	11-11-24	Drugs acting on the blood
20.	13-11-24	coagulants and anticoagulants
21.	14-11-24	Haemostatic
22.	16-11-24	Thrombolytics drugs
23.	18-11-24	Bronchodilators
24.	20-11-24	Expectorants
25.	21-11-24	Antitussive agents
26.	6-12-24	Respiratory stimulants
27.	8-12-24	Drugs affecting renal function
28.	9-12-24	Diuretics
29.	11-12-24	anti-diuretics.
30.	13-12-24	Autocoids
31.	20-12-24	physiological role of histamine
32	22-12-24	Classification and use of histamine
33	23-12-24	physiological role of Serotonin
34	25-12-24	Classification and use of serotonin
35	27-12-24	physiological role of prostaglandins
36	30-12-24	Classification and use of prostaglandins
37	17-01-25	Drugs acting on Peripheral nervous system
38	18-01-25	Pharmacological action of pns drugs
39	20-01-25	Cholinergic drugs
40	22-01-25	Anticholinergic drugs
41	24-01-25	anticholinesterase drugs
42	25-01-25	Adrenergic drugs
43	27-01-25	adrenergic receptor blockers.
44	29-01-25	Drugs used in myasthenia gravis

45	31-01-25	Local anesthetics
46	01-02-25	NSAIDS
47	03-02-25	Drugs acting on eye
48	05-02-25	Neurone blockers and ganglion blockers
49	07-02-25	drugs used in glaucoma
50	08-02-25	Drugs acting on the central Nervous system
51	10-02-25	General anaesthetics
52	12-02-25	Hypnotics
53	14-02-25	Sedatives
54	15-02-25	anticonvulsants
55	17-02-25	Anti-inflammatory drugs- Narcotic analgesics.
56	19-02-25	psychopharmacological agents
57	21-02-25	Antirheumatic
58	22-02-25	Centrally acting muscle relaxants
59	24-02-25	anti-gout remedies
60	26-02-25	Hormones and hormone antagonist
61	28-02-25	Anti--thyroid drugs
62	03-03-25	sex hormones and oral contraceptives
63	05-03-25	Calcitonin
64	07-03-25	Vitamin D
65	08-03-25	Insulin, Hypoglycemic agents
66	10-03-25	corticosteroids
67	21-03-25	Antibiotics, penicillin
68	22-03-25	Aminoglycosides
69	24-03-25	Fluoroquinolones
70	26-03-25	Revision
71	28-03-25	Test of Antibiotics
72	29-03-25	Macrolides
73	02-04-25	Tetracyclines
74	05-04-25	sulphonamides
75	11-04-25	Antitubercular agents
76	12-04-25	Antifungal agents
77	16-04-25	antiviral drugs
78	18-04-25	Anti-leprotic drugs
79	19-04-25	Chemotherapy of protozoal diseases
80	21-04-25	Anthelmintic drugs
81	25-04-25	Chemotherapy of cancer
82	26-04-25	Urinary antiseptics
83	26-04-25	Disinfectants and antiseptics.
84	30-04-25	Revision
85	03-05-25	Test of antibiotics
86	05-05-25	Revision of CNS drugs
87	07-05-25	Test of Drugs used in myasthenia gravis
88	09-05-25	Revision of all syllabus

LESSON PLAN FOR HOSPITAL & CLINICAL PHARMACY(ER20-25T)

S.NO	Date of Lecture/Tutorial	Title of lecture /work done in tutorial
1.	01/10/24	Introduction to hospital pharmacy
2.	04/10/24	Scope- national and international scenario
3.	05/10/24	Organisational structure
4.	08/10/24	Professional responsibilities
5.	09/10/24	GPP in the hospital
6.	11/10/24	Hospital pharmacy standards
7.	15/10/24	NAQS & NABH-Accreditations
8.	16/10/24	PTC- objectives, functions & composition
9.	18/10/24	Hospital formulary: definition, procedure & uses
10.	19/10/24	Infection control committee
11.	22/10/24	Inventory control techniques
12.	23/10/24	Preparation of drug list
13.	25/10/24	Drug purchase procedure
14.	26/10/24	FIFO, FEFO methods
15.	29/10/24	Expiry drug removal, handling & disposal
16.	05/11/24	Drug distribution in-patients & out-patients
17.	06/11/24	Drug distribution to ICCU/ICU/NICU/emergency boards
18.	08/11/24	Automated drug dispensing system
19.	09/11/24	Distribution of NDPS
20.	13/11/24	Compounding in hospitals
21.	19/11/24	Total parenteral nutrition
22.	20/11/24	Radiopharmaceuticals- storage, dispensing & disposal
23.	22/11/24	Application of computers in hospital & clinical pharmacy practice
24.	26/11/24	Software used in hospital pharmacy
25.	27/11/24	Test of chapter 8
26.	30/11/24	Clinical pharmacy: definition, scope & development
27.	03/12/24	Technical definitions & technologies used in a clinical setting
28.	04/12/24	Daily activities of a clinical pharmacist
29.	06/12/24	Ward round participation
30.	07/12/24	Treatment chart review
31.	11/12/24	Adverse drug reactions monitoring
32.	13/12/24	Drug information and poison information centre
33.	17/12/24	Medication history and patient counselling
34.	18/12/24	Interprofessional collaboration
35.	21/12/24	Pharmaceutical care- definition and classification
36.	31/12/24	Principles and procedures to provide pharmaceutical care
37.	21/01/25	Medication therapy management
38.	22/01/25	Home medication review
39.	25/01/25	Test of Chapter 9
40.	29/01/25	Clinical laboratory test-significance
41.	31/01/25	Haematological test
42.	04/02/25	Liver function and renal function test
43.	05/02/25	Thyroid function test
44.	08/02/25	Tests associated with cardiac disorders
45.	11/02/25	Fluid and electrolyte balance
46.	18/02/25	Pulmonary function test
47.	19/02/25	Poisoning types and antidotes
48.	22/02/25	Clinical manifestation & antidotes
49.	25/02/25	Test of poisoning
50.	04/03/25	Drug and Poisoning Information Centre and its services

LESSON PLAN FOR HOSPITAL & CLINICAL PHARMACY(ER20-25T)

51.	05/03/25	Information resources with advantages and disadvantages
52.	08/03/25	Pharmacovigilance- Definition and Aim
53.	11/03/25	Scope and overview of pharmacovigilance
54.	15/03/25	Medication error- types
55.	19/03/25	Consequences and strategies to minimise medication errors
56.	21/03/25	LASA drugs
57.	22/03/25	Tallman's letters as per ISMP
58.	25/03/25	Drug interactions
59.	28/03/25	Types and clinical significance
60.	02/04/25	GPP in hospitals
61.	02/04/25	Test of GPP
62.	04/04/25	Test of medication error
63.	05/04/25	Test of pharmacovigilance
64.	08/04/25	NAQS & NABH-accreditation revision
65.	09/04/25	Test of CHAPTER-02
66.	09/04/25	Revision of Tallman Letters
67.	12/04/25	High-risk drugs
68.	15/04/25	Emergency drugs and Schedule H1 drugs
69.	16/04/25	NDPS drugs
70.	18/04/25	Reserved anti-biotics
71.	22/04/25	Test of CHAPTER-03
72.	25/04/25	Revision of poisons and antidotes
73.	26/04/25	Revision of pharmacovigilance
74.	26/04/25	Test of Pharmacovigilance
75.	03/05/25	LASA drugs revision
76.	04/05/25	Test of LASA drugs
77.	07/05/25	Radiopharmaceuticals
78.	07/05/25	Test of Radiopharmaceuticals
79.	09/05/25	Hospital formulary and infection control committee revision
80.	09/05/25	Test of Hospital Formulary and ICC

Ganpati Institute of Pharmacy, Bilaspur

Lesson Plan for Community Pharmacy & Management

S. No.	Date of Lecture	Title of Lecture/Work Done
1	03-10-2024	Community Pharmacy Practice – Definition, history and development of community pharmacy
2	08-10-2024	International and Indian scenarios
3	09-10-2024	Revision and Written Test
4	10-10-2024	Professional responsibilities of community pharmacists
5	15-10-2024	Introduction to the concept of Good Pharmacy Practice and SOPs
6	16-10-2024	Revision and Written Test
7	05-11-2024	Prescription and prescription handling
8	06-11-2024	Definition, parts of prescriptions, legality of prescriptions, prescription handling, labelling of dispensed medications
9	07-11-2024	(Main label, ancillary label, pictograms),
10	08-11-2024	brief instructions on medication usage, Dispensing process,
11	12-11-2024	Good Dispensing Practices, dispensing errors and strategies to minimize them
12	13-11-2024	Revision and Written Test
13	14-11-2024	Communication skills - Definition, types of communication skills
14	19-11-2024	Interactions with professionals and patients - Verbal communication skills
15	20-11-2024	(one-to-one, over the telephone), Written communication skills
16	21-11-2024	Body language Patient interview techniques
17	26-11-2024	Revision and Written Test
18	27-11-2024	Patient counselling - Definition and benefits of patient counselling
19	28-11-2024	Stages of patient counselling - Introduction
20	03-12-2024	counselling content, counselling process, and closing the counselling session
21	04-12-2024	Barriers to effective counseling - Types

22	05-12-2024	strategies to overcome the barriers
23	06-12-2024	Revision and Written Test
24	10-12-2024	Patient counselling points for chronic diseases/disorders
25	11-12-2024	Hypertension, Diabetes, Asthma, Tuberculosis
26	12-12-2024	Chronic obstructive pulmonary disease, and AIDS
27	17-12-2024	Patient Package Inserts - Definition, importance
28	18-12-2024	benefits, Scenarios of PPI use in India and other countries
29	19-12-2024	Revision and Written Test
30	15-01-2025	Revision and Written Test
31	16-01-2025	Medication Adherence Definition, factors influencing non- adherence
32	21-01-2025	strategies to overcome non-adherence
33	22-01-2025	Revision and Written Test
34	23-01-2025	Health Screening Services in Community Pharmacy
35	24-01-2025	Introduction, scope, and importance of various health screening services
36	28-01-2025	for routine monitoring of patients,
37	29-01-2025	early detection, and referral of undiagnosed cases
38	04-02-2025	Revision and Written Test
39	05-02-2025	Over The Counter (OTC) Medications
40	06-02-2025	Definition, need and role of Pharmacists in OTC medication dispensing
41	07-02-2025	OTC medications in India, counseling for OTC products
42	13-02-2025	Self-medication and role of pharmacists
43	18-02-2025	promoting the safe practices during self-medication
44	19-02-2025	Responding to symptoms, minor ailments
45	20-02-2025	advice for self-care in conditions such as - Pain management
46	25-02-2025	Cough, Cold, Diarrhea, Constipation, Vomiting, Fever
47	27-02-2025	Sore throat, Skin disorders, Oral health (mouth ulcers,
48	28-02-2025	dental pain, gum swelling)
49	04-03-2025	Revision and Written Test
50	05-03-2025	Community Pharmacy Management
51	06-03-2025	Legal requirements to set up a community pharmacy

52	11-03-2025	Site selection requirements
53	12-03-2025	Pharmacy designs and interiors
54	18-03-2025	Vendor selection and ordering
55	19-03-2025	Procurement, inventory control methods, and inventory management
56	20-03-2025	Revision and Written Test
57	25-03-2025	Financial planning and management
58	26-03-2025	Accountancy in community pharmacy – Day book, Cash book
59	27-03-2025	Revision and Written Test
60	01-04-2025	Introduction to pharmacy operation softwares – usefulness and availability
61	02-04-2025	Customer Relation Management (CRM), Audits in Pharmacies
62	03-04-2025	SOP of Pharmacy Management
63	10-04-2025	Introduction to Digital Health
64	15-04-2025	mHealth and Online pharmacies
65	16-04-2025	Revision and Written Test
66	17-04-2025	Seminar
67	22-04-2025	Revision and Written Test
68	23-04-2025	Revision and Written Test
69	24-04-2025	Seminar
70	29-04-2025	Revision and Written Test
71	30-04-2025	Seminar
72	01-05-2025	Revision and Written Test
73	06-05-2025	Seminar
74	07-05-2025	Revision and Written Test
75	08-05-2025	Seminar