

GANPATI INSTITUTE OF PHARMACY, BILASPUR**D.PHARMACY 1ST YEAR****LESSON PLAN****PHARMACEUTICAL CHEMISTRY**

S.NO	DATE OF LECTURE/TUTORIAL	TITLE OF LECTURE /WORK DONE IN TUTORIAL
1.	11/11/24	INTRODUCTION TO PHARMACEUTICAL CHEMISTRY
2.	12/11/24	SCOPE AND OBJECTIVES
3.	13/11/24	SOURCES AND TYPES OF ERRORS: ACCURACY, PRECISION, SIGNIFICANT FIGURES
4.	15/11/24	IMPURITIES IN PHARMACEUTICALS: SOURCE AND EFFECT OF IMPURITIES IN PHARMACOPOEIAL SUBSTANCES, IMPORTANCE OF LIMIT TEST,
5.	18/11/24	LIMIT TESTS FOR CHLORIDES
6.	19/11/24	LIMIT TESTS FOR SULPHATES
7.	20/11/24	LIMIT TESTS FOR IRON
8.	22/11/24	LIMIT TESTS FOR HEAVY METALS
9.	25/11/24	LIMIT TESTS FOR ARSENIC
10.	26/11/24	VOLUMETRIC ANALYSIS: FUNDAMENTALS OF VOLUMETRIC ANALYSIS
11.	27/11/24	ACID-BASE TITRATION
12.	2/12/24	NON-AQUEOUS TITRATION
13.	3/12/24	PRECIPITATION TITRATION
14.	4/12/24	COMPLEXOMETRIC TITRATION
15.	6/12/24	REDOX TITRATION
16.	9/12/24	GRAVIMETRIC ANALYSIS: PRINCIPLE AND METHOD
17.	10/12/24	HAEMATINICS: FERROUS SULPHATE, FERROUS FUMARATE, FERRIC AMMONIUM CITRATE, FERROUS ASCORBATE, CARBONYL IRON
18.	11/12/24	GASTRO-INTESTINAL AGENTS: ANTACIDS :ALUMINIUM HYDROXIDE GEL, MAGNESIUM

		HYDROXIDE, MAGALDRATE, SODIUM BICARBONATE, CALCIUM CARBONATE, ACIDIFYING AGENTS, ADSORBENTS, PROTECTIVES, CATHARTICS
19.	13/12/24	TOPICAL AGENTS: SILVER NITRATE, IONIC SILVER, CHLORHEXIDINE GLUCONATE, HYDROGEN PEROXIDE, BORIC ACID, BLEACHING POWDER, POTASSIUM PERMANGANATE
20.	16/12/24	DENTAL PRODUCTS: CALCIUM CARBONATE, SODIUM FLUORIDE, DENTURE CLEANERS, DENTURE ADHESIVES, MOUTH WASHES
21.	17/12/24	MEDICINAL GASES: CARBON DIOXIDE, NITROUS OXIDE, OXYGEN
22.	18/12/24	TEST
23.	20/12/24	INTRODUCTION TO NOMENCLATURE OF ORGANIC CHEMICAL SYSTEMS WITH PARTICULAR REFERENCE TO HETEROCYCLIC COMPOUNDS CONTAINING UP TO THREE RINGS
24.	23/12/24	INTRODUCTION TO NOMENCLATURE OF ORGANIC CHEMICAL SYSTEMS WITH PARTICULAR REFERENCE TO HETEROCYCLIC COMPOUNDS CONTAINING UP TO THREE RINGS
25	24/12/24	ANAESTHETICS: THIOPENTAL SODIUM*, KETAMINE HYDROCHLORIDE*, PROPOFOL
26.	30/12/24	SEDATIVES AND HYPNOTICS: DIAZEPAM*, ALPRAZOLAM*, NITRAZEPAM, PHENOBARBITAL*
27.	31/12/24	ANTIPSYCHOTICS: CHLORPROMAZINE HYDROCHLORIDE*, HALOPERIDOL*, RISPERIDONE*, SULPIRIDE*, OLANZAPINE, QUETIAPINE, LURASIDONE
28.	20/1/25	ANTICONVULSANTS: PHENYTOIN*, CARBAMAZEPINE*, CLONAZEPAM, VALPROIC ACID*, GABAPENTIN*, TOPIRAMATE, VIGABATRIN, LAMOTRIGINE
29.	21/1/25	ANTI-DEPRESSANTS: AMITRIPTYLINE HYDROCHLORIDE*, IMIPRAMINE HYDROCHLORIDE*, FLUOXETINE*,

30.	22/1/25	ANTI-DEPRESSANTS; VENLAFAXINE, DULOXETINE, SERTRALINE, CITALOPRAM, ESCITALOPRAM, FLUVOXAMINE, PAROXETINE
31.	24/1/25	TEST
32.	24/1/25	SYMPATHOMIMETIC AGENTS: DIRECT ACTING: NOREPINEPHRINE*, EPINEPHRINE, PHENYLEPHRINE, 9 19 P A G E DOPAMINE*, TERBUTALINE, SALBUTAMOL (ALBUTEROL), NAPHAZOLINE*, TETRAHYDROZOLINE. INDIRECT ACTING AGENTS: HYDROXY AMPHETAMINE, PSEUDOEPHEDRINE. AGENTS WITH MIXED MECHANISM: EPHEDRINE, METARAMINOL
33.	27/1/25	ADRENERGIC ANTAGONISTS: ALPHA ADRENERGIC BLOCKERS: TOLAZOLINE, PHENTOLAMINE PHENOXYBENZAMINE, PRAZOSIN. BETA ADRENERGIC BLOCKERS: PROPRANOLOL*, ATENOLOL*, CARVEDILOL
34.	28/1/25	CHOLINERGIC DRUGS AND RELATED AGENTS: DIRECT ACTING AGENTS: ACETYLCHOLINE*, CARBACHOL, AND PILOCARPINE. CHOLINESTERASE INHIBITORS: NEOSTIGMINE*, EDROPHONIUM CHLORIDE, TACRINE HYDROCHLORIDE, PRALIDOXIME CHLORIDE, ECHOTHIOPATE IODIDE
35.	29/1/25	CHOLINERGIC BLOCKING AGENTS: ATROPINE SULPHATE*, IPRATROPIUM BROMIDE SYNTHETIC CHOLINERGIC BLOCKING AGENTS: TROPICAMIDE, CYCLOPENTOLATE HYDROCHLORIDE, CLIDINIUM BROMIDE, DICYCLOMINE HYDROCHLORIDE*
36.	31/1/25	TEST
37.	3/2/25	ANTI-ARRHYTHMIC DRUGS: QUINIDINE SULPHATE, PROCAINAMIDE HYDROCHLORIDE, VERAPAMIL, PHENYTOIN SODIUM*, LIDOCAINE HYDROCHLORIDE, LORCAINIDE HYDROCHLORIDE, AMIODARONE AND SOTALOL
38.	4/2/25	ANTI-HYPERTENSIVE AGENTS: PROPRANOLOL*, CAPTOPRIL*, RAMIPRIL, METHYLDOPATE HYDROCHLORIDE, CLONIDINE HYDROCHLORIDE, HYDRALAZINE

		HYDROCHLORIDE, NIFEDIPINE,
39	5/2/25	ANTIANGINAL AGENTS: ISOSORBIDE DINITRATE
40.	7/2/25	TEST
41.	10/2/25	DIURETICS: ACETAZOLAMIDE, FRUSEMIDE*, BUMETANIDE
42.	14/2/25	DIURETICS: CHLORTHALIDONE, BENZTHIAZIDE, METOLAZONE, XIPAMIDE, SPIRONOLACTONE
43.	17/2/25	TEST
44.	18/2/25	HYPOGLYCEMIC AGENTS: INSULIN AND ITS PREPARATIONS
45.	19/2/25	HYPOGLYCEMIC AGENTS: METFORMIN*, GLIBENCLAMIDE*, GLIMEPIRIDE, PIOGLITAZONE, REPAGLINIDE, GLIFLOZINS, GLIPTINS
46.	21/2/25	ANALGESIC AND ANTI-INFLAMMATORY AGENTS: MORPHINE ANALOGUES, NARCOTIC ANTAGONISTS;
47.	24/2/25	NONSTEROIDAL ANTIINFLAMMATORY AGENTS (NSAIDS) - ASPIRIN*, DICLOFENAC, IBUPROFEN*, PIROXICAM, CELECOXIB, MEFENAMIC ACID, PARACETAMOL*, ACECLOFENAC
48.	25/2/25	TEST
49.	28/2/25	ANTIFUNGAL AGENTS: AMPHOTERICIN-B, GRISEOFULVIN, MICONAZOLE, KETOCONAZOLE*, ITRACONAZOLE, FLUCONAZOLE*, NAFTIFINE HYDROCHLORIDE
50.	3/3/25	URINARY TRACT ANTI-INFECTIVE AGENTS: NORFLOXACIN, CIPROFLOXACIN, OFLOXACIN*, MOXIFLOXACIN,
51.	4/3/25	ANTI-TUBERCULAR AGENTS: INH*, ETHAMBUTOL, PARA AMINO SALICYLIC ACID, PYRAZINAMIDE, RIFAMPICIN, BEDAQUILINE, DELAMANID, PRETOMANID*
52.	5/3/25	ANTIVIRAL AGENTS: AMANTADINE HYDROCHLORIDE, IDOXURIDINE,
53.	7/3/25	ACYCLOVIR*, FOSCARNET, ZIDOVUDINE,

		RIBAVIRIN, REMDESIVIR, FAVIPRAVIR
54.	10/3/25	ANTIMALARIALS: QUININE SULPHATE, CHLOROQUINE PHOSPHATE*, PRIMAQUINE PHOSPHATE
55.	11/3/25	MEFLOQUINE*, CYCLOGUANIL, PYRIMETHAMINE, ARTEMISININ
56.	12/3/25	SULFONAMIDES: SULFANILAMIDE, SULFADIAZINE, SULFAMETHOXAZOLE,
57.	17/3/25	SULFACETAMIDE*, MAFENIDE ACETATE, COTRIMOXAZOLE, DAPSONE*
58.	18/3/25	TEST
59.	19/3/25	ANTIBIOTICS: PENICILLIN G, AMOXICILLIN*, CLOXACILLIN, STREPTOMYCIN, TETRACYCLINES
60.	21/3/25	DOXYCYCLINE, MINOCYCLINE, MACROLIDES: ERYTHROMYCIN, AZITHROMYCIN, MISCELLANEOUS: CHLORAMPHENICOL* CLINDAMYCIN
61.	21/3/25	ANTI-NEOPLASTIC AGENTS: CYCLOPHOSPHAMIDE*, BUSULFAN,
62.	25/3/25	MERCAPTOPURINE, FLUOROURACIL*, METHOTREXATE, DACTINOMYCIN, DOXORUBICIN HYDROCHLORIDE, VINBLASTINE SULPHATE, CISPLATIN*, DROMOSTANOLONE PROPIONATE
63.	26/3/25	TEST
64.	28/3/25	TEST REPEAT
65.	1/4/25	REVISION OF UNIT 1
66.	2/4/25	REVISION OF UNIT 1
67.	4/4/25	REVISION OF UNIT 2
68.	11/4/25	SESSIONAL QUESTION ASSIGNMENT
69.	16/4/25	REVISION OF UNIT 3
70.	18/4/25	REVISION OF UNIT 4
71.	21/4/25	TEST
72.	22/4/25	REVISION OF UNIT 5

73.	23/4/25	SEMINAR
74.	25/4/25	SEMINAR
75.	28/4/25	REVISION OF UNIT 6
76.	29/4/25	TEST
77.	30/4/25	REVISION OF UNIT 6
78.	2/5/25	REVISION OF UNIT 7
79.	5/5/25	REVISION OF UNIT 8
80.	6/5/25	REVISION OF UNIT 9
81	7/5/25	REVISION OF UNIT 10
82	9/5/25	REVISION OF UNIT 11
83	13/5/25	TEST
84	14/5/25	REVISION OF UNIT 12
85	16/5/25	TEST
86	19/5/25	SEMINAR
87	20/5/25	TEST
88	21/5/25	REVISION OF UNIT 13
89	23/5/25	REVISION OF UNIT 13
90	24/5/25	TEST
91	26/5/25	QUIZ
92	27/5/25	QUIZ
93	28/5/25	IMPORTANT QUESTIONS
94	29/5/25	SEMINAR
95	30/5/25	SEMINAR
96	31/5/25	SEMINAR

GANPATI INSTITUTE OF PHARMACY, BILASPUR

D.PHARMACY 1ST YEAR

LESSON PLAN

HUMAN ANATOMY AND PHYSIOLOGY

S.NO	DATE OF LECTURE/TUTORIAL	TITLE OF LECTURE /WORK DONE IN TUTORIAL
1.	3/10/24	SCOPE OF ANATOMY AND PHYSIOLOGY
2.	5/10/24	DEFINITION OF VARIOUS TERMINOLOGIES
3.	9/10/24	STRUCTURE OF CELL
4.	10/10/24	COMPONENTS AND ITS FUNCTIONS
5.	12/10/24	TISSUES OF THE HUMAN BODY
6.	16/10/24	EPITHELIAL AND CONNECTIVE TISSUE
7.	17/10/24	MUSCULAR AND NERVOUS TISSUES
8.	19/10/24	INTRODUCTION TO OSSEOUS SYSTEM
9.	23/10/24	AXIAL SKELETON
10.	24/10/24	APPENDICULAR SKELETON
11.	26/10/24	CLASSIFICATION, TYPES MOVEMENTS OF JOINTS
12.	6/11/24	COMPOSITION AND FUNCTIONS OF BLOOD
13.	7/11/24	PROCESS OF HEMOPOIESIS
14.	9/11/24	CHARACTERISTICS AND FUNCTIONS OF RBCS, WBCS, AND PLATELETS
15.	13/11/24	MECHANISM OF BLOOD CLOTTING
16.	21/11/24	IMPORTANCE OF BLOOD GROUPS
17.	23/11/24	DISORDERS OF JOINTS
18.	27/11/24	LYMPHATIC SYSTEM
19.	28/11/24	LYMPH AND LYMPHATIC SYSTEM, COMPOSITION, FUNCTION AND ITS FORMATION
20.	30/11/14	STRUCTURE AND FUNCTIONS OF SPLEEN AND LYMPH NODE

21.	4/12/24	ANATOMY OF HEART AND BLOOD VESSELS
22.	5/12/24	PHYSIOLOGY OF HEART AND CIRCULATION (PULMONARY, CORONARY AND SYSTEMIC CIRCULATION)
23.	7/12/24	CARDIAC CYCLE AND HEART SOUNDS
24.	11/12/24	BASICS OF ECG
25.	12/12/24	BLOOD PRESSURE AND ITS REGULATION
26.	13/12/24	HISTOLOGY OF SKELETAL MUSCLES
27.	14/12/24	PHYSIOLOGY OF MUSCLE CONTRACTION
28.	18/12/24	DISORDER OF SKELETAL MUSCLES
29.	19/12/24	INTRODUCTION TO DIGESTIVE SYSTEM
30.	20/12/24	ANATOMY OF GIT
31.	21/12/24	PHYSIOLOGY OF THE GIT
32.	22/1/25	PHYSIOLOGY OF THE GIT
33.	23/1/25	ANATOMY OF GLANDS
34.	25/1/25	FUNCTIONS OF ACCESSORY GLANDS
35.	29/1/25	PHYSIOLOGY OF DIGESTION
36.	30/1/25	PHYSIOLOGY OF ABSORPTION
37.	31/1/25	TEST
38.	1/2/25	DISORDER OF SKELETAL MUSCLES
39.	5/2/25	REVISION OF UNIT 2
40.	6/2/25	NERVOUS SYSTEM
41.	7/2/25	CLASSIFICATION OF NERVOUS SYSTEM
42.	8/2/25	ANATOMY AND PHYSIOLOGY OF CEREBRUM
43.	13/2/25	ANATOMY AND PHYSIOLOGY OF CEREBELLUM, MID BRAIN
44.	14/2/25	FUNCTION OF HYPOTHALAMUS, MEDULLA OBLONGATA
45.	15/2/25	FUNCTION OF BASAL GANGLIA

46.	19/2/25	SURPRISE TEST
47.	20/2/25	SPINAL CORD-STRUCTURE AND REFLEXES
48.	21/2/25	NAMES AND FUNCTIONS OF CRANIAL NERVES.
49.	22/2/25	REVISION OF UNIT 4
50.	27/2/25	ANATOMY OF SYMPATHETIC NS
51.	28/2/25	PHYSIOLOGY OF SYMPATHETIC NS
52.	1/3/25	ANATOMY OF PARASYMPATHETIC NERVOUS SYSTEM (ANS)
53.	5/3/25	PHYSIOLOGY OF PARASYMPATHETIC NERVOUS SYSTEM
54.	6/3/25	ANATOMY AND PHYSIOLOGY OF EYE
55.	7/3/25	ANATOMY AND PHYSIOLOGY OF EAR
56.	8/3/25	ANATOMY AND PHYSIOLOGY OF SKIN
57.	12/3/15	ANATOMY AND PHYSIOLOGY OF TONGUE
58.	15/3/25	ANATOMY AND PHYSIOLOGY OF NOSE
59.	19/3/25	ANATOMY OF URINARY SYSTEM
60.	20/3/25	PHYSIOLOGY OF URINARY SYSTEM
61.	21/3/25	PHYSIOLOGY OF URINE FORMATION
62.	22/3/25	PHYSIOLOGY OF URINE FORMATION
63.	26/3/25	RENIN - ANGIOTENSIN SYSTEM
64.	27/3/258	RENIN - ANGIOTENSIN SYSTEM
65.	28/3/25	CLEARANCE TESTS
66.	29/3/25	CLEARANCE TESTS
67.	2/4/25	MICTURITION
68.	4/4/25	TEST
69.	5/4/25	RESPIRATORY SYSTEM INTRO
70.	9/4/25	ANATOMY OF RESPIRATORY ORGANS
71.	10/4/25	FUNCTIONS OF RESPIRATORY ORGANS

72.	11/4/25	REGULATION, AND MECHANISM OF RESPIRATION
73.	12/4/25	RESPIRATORY VOLUMES AND CAPACITIES – DEFINITIONS
74.	16/4/25	ENDOCRINE SYSTEM INTRO
75.	17/84/25	PITUITARY GLAND
76.	18/4/25	ADRENAL GLAND
77.	19/4/25	THYROID AND PARATHYROID GLAND
78.	23/4/25	PANCREAS AND GONADS
79.	24/4/25	REVISION OF UNIT 6
80.	25/4/25	REPRODUCTIVE SYSTEM INTRO
81	26/4/25	ANATOMY OF MALE REPRODUCTIVE SYSTEM
82	30/4/25	ANATOMY OF MALE REPRODUCTIVE SYSTEM
83	1/5/25	ANATOMY OF FEMALE REPRODUCTIVE SYSTEM
84	2/5/25	ANATOMY OF FEMALE REPRODUCTIVE SYSTEM
85	3/5/25	PHYSIOLOGY OF MENSTRUATION
86	7/5/25	SPERMATOGENESIS
87	9/5/25	SPERMATOGENESIS
88	10/5/25	OOGENESIS
89	14/5/25	OOGENESIS
90	15/5/25	PREGNANCY
91	16/5/25	PARTURITION
92	17/5/25	REVISION OF UNIT 7
93	21/5/25	REVISION OF UNIT 8
94	22/5/25	TEST
95	23/5/25	REVISION OF UNIT 9
96	24/5/25	REVISION OF UNIT 10
97	28/5/25	REVISION OF UNIT 11
98	29/5/25	TEST

99	30/5/25	IMPORTANT QUESTIONS
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Ganpati Institute of Pharmacy, Bilaspur

Lesson Plan for Social Pharmacy

S. No.	Date of Lecture	Title of Lecture/Work Done
1	12-11-2024	Introduction to Social Pharmacy. Definition and Scope.
2	13-11-2024	Social Pharmacy as a discipline and its scope in improving the public health.
3	19-11-2024	Role of Pharmacists in Public Health.
4	20-11-2024	Concept of Health - WHO Definition, various Dimensions.
5	22-11-2024	Determinants, and health indicators.
6	26-11-2024	National Health Policy – Indian perspective
7	27-11-2024	Public and Private Health System in India, National Health Mission
8	03-12-2024	Introduction to Millennium Development Goals, Sustainable Development Goals
9	04-12-2024	FIP Development Goals
10	06-12-2024	Preventive healthcare - Role of Pharmacists
11	10-12-2024	Demography and Family Planning, Mother and child health
12	11-12-2024	Importance of breastfeeding, Ill effects of infant milk
13	13-12-2024	Substitutes and bottle feeding, Overview of Vaccines
14	17-12-2024	Types of immunity and Immunization
15	18-12-2024	Effect of Environment on Health - Water pollution
16	20-12-2024	Importance of safe drinking water, Waterborne diseases
17	31-12-2024	Air pollution Noise pollution, Sewage and solid waste disposal
18	15-01-2025	Occupational illnesses, Environmental pollution due to pharmaceuticals
19	17-01-2025	Psychosocial Pharmacy
20	21-01-2025	Drugs of misuse and abuse psychotropics, narcotics
21	22-01-2025	Alcohol, tobacco products, Social Impact of these habits on social
22	24-01-2025	Health and productivity and suicidal behaviours
23	28-01-2025	Nutrition and Health – Basics of Nutrition, Macronutrients and

24	29-01-2025	Micronutrients, Importance of water and fibres in diet
25	31-01-2025	Balanced diet, Malnutrition, nutrition deficiency diseases
26	04-02-2025	Ill effects of junk foods, Calorific and nutritive values of various foods
27	05-02-2025	Fortification of food, Introduction to food safety
28	07-02-2025	Adulteration of foods, effects of artificial ripening
29	14-02-2025	Use of pesticides, genetically modified foods
30	18-02-2025	Dietary supplements, nutraceuticals, food supplements indications
31	19-02-2025	Benefits, Drug-Food Interactions.
32	21-02-2025	Revision and Seminar
33	22-02-2025	Revision and Seminar
34	25-02-2025	Introduction to Microbiology and Common microorganisms
35	28-02-2025	Introduction to epidemiology and its applications
36	01-03-2025	Understanding of terms such as epidemic, pandemic
37	04-03-2025	Endemic, mode of transmission, outbreak, quarantine
38	05-03-2025	Isolation, incubation period, contact tracing, morbidity
39	07-03-2025	Mortality, Causative agents, epidemiology and clinical presentations
40	08-03-2025	Role of Pharmacists in educating the public
41	11-03-2025	in prevention of the following communicable diseases
42	12-03-2025	Respiratory infections - chickenpox, measles, rubella
43	18-03-2025	mumps, influenza (including Avian-Flu, H1N1,
44	19-03-2025	SARS, MERS, COVID-19), diphtheria, whooping cough,
45	21-03-2025	meningococcal meningitis, acute respiratory infections
46	22-03-2025	Tuberculosis (TB), Ebola
47	25-03-2025	Intestinal infections – poliomyelitis, viral hepatitis, cholera
48	26-03-2025	Acute diarrhoeal diseases, typhoid, amoebiasis
49	28-03-2025	Worm infestations, food poisoning
50	29-03-2025	Arthropod-borne infections - dengue, malaria
51	01-04-2025	Filariasis and, chikungunya
52	02-04-2025	Surface infections – trachoma, tetanus, leprosy

53	04-04-2025	STDs, HIV/AIDS
54	05-04-2025	Revision and Seminar
55	11-04-2025	Revision and Seminar
56	16-04-2025	Revision and Seminar
57	18-04-2025	Revision and Seminar
58	22-04-2025	Revision and Seminar
59	23-04-2025	Revision and Seminar
60	25-04-2025	Introduction to health systems and all ongoing National Health programs
61	26-04-2025	in India, their objectives, functioning, outcomes
62	29-04-2025	and the role of pharmacists, Pharmacoeconomics – Introduction
63	30-04-2025	Basic terminologies, importance of Pharmacoeconomics
64	06-05-2025	Revision and Seminar
65	07-05-2025	Revision and Seminar
66	09-05-2025	Revision and Seminar
67	13-05-2025	Revision and Seminar
68	14-05-2025	Revision and Seminar
69	16-05-2025	Revision and Test of Chapter 1
70	20-05-2025	Revision and Test of Chapter 2
71	21-05-2025	Revision and Test of Chapter 3
72	23-05-2025	Revision and Test of Chapter 4
73	27-05-2025	Revision and Test of Chapter 5
74	28-05-2025	Revision and Test of Chapter 6
75	30-05-2025	Revision and Seminar