

GAUTAM COLLEGE OF PHARMACY
DISTT.HAMIRPUR 177001 (H.P)
LESSON PLAN

Course: D. Pharmacy 2nd Year

Session-2024-2025

Subject Name: Pharmacology

Subject Code: ER20-21T

Total teaching hours allocated by PCI= 75 hrs

Name of faculty: Neha Rani

Duration of topic: 1 hr

Scope: This course provides basic knowledge about different classes of drugs available for the pharmacotherapy of common diseases. The indications for use, dosage regimen, routes of administration, pharmacokinetics, pharmacodynamics, and contraindications of the drugs discussed in this course are vital for successful professional practice.

Chapter No.	Topic No	Title of Topic	Scheduled Date	Pedagogy	Assignment	Objectives and Learning Outcomes	Remarks
1	1	Introduction and scope of pharmacology Various routes of drug administration - advantages and disadvantages	13/08/2024	Hand written Notes	Assignment on introduction to toxicity studies	After completion of the topic the student will be able to understand the concepts of pharmacokinetics and pharmacodynamics	
	2	Drug absorption - definition, types, factors affecting drug absorption	16/08/2024				
	3	Bioavailability and drug distribution of drugs	17/08/2024				
		Tutorial no. 1	20/08/2024				
	4	Drug distribution - definition,	22/08/2024				
	5	Factors affecting drug distribution	23/08/2024				
	6	Biotransformation of drugs	24/08/2024				
		Tutorial no.-2	27/08/2024				
	7	Types of biotransformation reaction	29/08/2024				
	8	Factors influencing drug metabolisms	30/08/2024				
	9	Excretion of drugs and general mechanism of drug action	31/08/2024				
		Tutorial no.-3	03/09/2024				
	10	Drug distribution	03/09/2024				

2	11	Drugs Acting on the Peripheral Nervous System	03/09/2024	Hand written Notes		After completion of the topic the student will be able to understand the drugs acting on the peripheral nervous system	
	12	Steps involved in neurohumoral transmission	03/09/2024				
		Tutorial no.-4	03/09/2024				
	13	Cholinergic drugs,	03/09/2024				
	14	Adrenergic drugs	03/09/2024				
	15	Anti-adrenergic drugs	03/09/2024				
		Tutorial no.-5	03/09/2024				
	16	Anti-Cholinergic drugs	03/09/2024				
	17	Neuromuscular blocking agents	03/09/2024				
	18	Drugs used in Myasthenia gravis	03/09/2024				
		Tutorial no.-6	03/09/2024				
	19	Local anaesthetic agents	03/09/2024				
	20	Non-Steroidal Anti-Inflammatory drugs (NSAIDs)	03/09/2024				
	21	Classification and Mechanism of NSAIDs	03/09/2024				
		Tutorial no.-7	03/09/2024				
3	22	Drugs Acting on the Eye Miotics Mydriatics	03/09/2024	Hand written Notes		After completion of the topic the student will be able to the drugs acting on the eye	
	23	Drugs used in Glaucoma	03/09/2024				
4	24	Drugs Acting on the Central Nervous System	03/09/2024	Hand written Notes	Assignment on medicines and meals: before or after food	After completion of the topic the student will be able to the drugs acting on the central nervous system	
		Tutorial no.-8	03/09/2024				
	25	General anaesthetics	03/09/2024				
	26	Hypnotics and sedatives	03/09/2024				
	27	Anti Convulsant drugs	03/09/2024				
		Tutorial no.-9	03/09/2024				

	28	Anti-anxiety drugs	03/09/2024				
		Anti-depressant drugs					
	29	Anti-psychotics	03/09/2024				
	30	Centrally acting muscle relaxants	03/09/2024				
		Tutorial no.-10	03/09/2024				
	31	Opioid analgesics	05/09/2024				
5	32	Drugs Acting on the Cardiovascular System	06/09/2024	Hand written notes		After completion of the topic the student will be able to the drugs acting on the cardiovascular system	
	33	Anti-hypertensive drugs	07/09/2024				
		Tutorial no.-11	10/09/2024				
	34	Anti-anginal drugs	12/09/2024				
	35	Anti-arrhythmic drugs	13/09/2024				
	36	Drugs used in atherosclerosis	17/09/2024				
		Tutorial no.-12	19/09/2024				
	37	Congestive heart failure	20/09/2024				
	38	Drug therapy for shock	21/09/2024				
6	39	Drugs Acting on Blood and Blood Forming Organs	24/09/2024	Hand written Notes		After completion of the topic the student will be able to the drugs acting on the blood and blood forming organs	
		Tutorial no.-13	26/09/2024				
	40	Hematinic agents	27/09/2024				
	41	Anti-coagulants	28/09/2024				
	42	Anti-platelet agents	01/10/2024				
		Tutorial no.-14	03/10/2024				
	43	Thrombolytic drugs	04/10/2024			After completion of the topic the student will be able to the drugs acting on the respiratory system	
7	44	Definition, classification, pharmacological actions, dose, indications, and contraindications of Bronchodilators, Expectorants	05/10/2024	Hand written Notes			

	45	Anti-tussive agents, Mucolytic agents	08/10/2024				
		Tutorial no.-15	10/10/2024				
8	46	Drugs Acting on the Gastro Intestinal Tract	11/10/2024	Hand written Notes	Assignment on Drugs available as paediatric formulations	After completion of the topic the student will be able to the drugs acting on the gastro intestinal tract	
	47	Anti-ulcer drugs	15/10/2024				
	48	Anti-emetics	18/10/2024				
		Tutorialno.-16	19/10/2024				
	49	Laxatives and purgatives	22/10/2024				
	50	Anti-diarrheal drugs	24/10/2024				
9	51	Drugs Acting on the Kidney Diuretics	25/10/2024	Hand written Notes		After completion of the topic the student will be able to the drugs acting on the kidney	
		Tutorialno.-17	26/10/2024				
	52	Anti-Diuretics	05/11/2024				
10	53	Hormones and Hormone Antagonists	07/11/2024	Hand written Notes		After completion of the topic the student will be able to the hormones and hormone antagonists	
	54	Thyroid hormones Anti-thyroid drugs	08/11/2024				
		Tutorialno.-18	12/11/2024				
		Parathormone, Calcitonin	14/11/2024				
	55						
	56	Vitamin D	16/11/2024				
	57	Insulin	23/11/2024				
		Tutorialno.-19	26/11/2024				
	58	Oral hypoglycemic agents	28/11/2024				
	59	Estrogen Progesterone	29/11/2024				
	60	Oxytocin	30/11/2024				
		Tutorialno.-20	03/12/2024				
	61	Corticosteroids	05/12/2024				
11	62	Autocoids	06/12/2024	Hand written Notes		After completion of the topic the student will be able to the autocoids role of autocoids	
	63	Physiological role of Histamine, 5 HT and Prostaglandins	07/12/2024				
		Tutorialno.-21	10/12/2024				
	64	Classification, clinical uses, and adverse effects of antihistamines and 5 HT antagonists	12/12/2024				

12	65	Chemotherapeutic Agents:	13/12/2024	Handwritten notes	Assignment on Drug information apps	After completion of the topic the student will be able to the chemotherapeutic agents	
	66	Penicillins Cephalosporins	17/12/2024				
		Tutorialno.-22	19/12/2024				
	67	Aminoglycosides	20/12/2024				
	68	FluoroquinolonesMacrolides	21/12/2024				
	69	Tetracyclines	24/12/2024				
		Tutorialno.-23	26/12/2024				
	70	Sulphonamides	27/12/2024				
	71	Anti-tubercular drugs	28/12/2024				
	72	Anti-fungal drugs	31/12/2024				
		Tutorialno.-24	17/01/2025				
	73	Anti-viral drugs	21/01/2025				
	74	Anti--amoebic agents	21/01/2025				
	75	Anthelmintics	22/01/2025				
		Tutorialno.-25	24/01/2025				
	76	Anti-malarial agents	28/01/2025				
	77	Anti-neoplastic agents	28/01/2025				
13	78	Biologicals	29/01/2025	Hand written Notes		After completion of the topic the student will be able to the biological and its types	
		Tutorialno.-26	31/01/2025				
	79	Definition and types	04/02/2025				
	80	Indications of biological agents with examples	04/02/2025				

1. Total No of Assignments given: 04
2. Model question paper given: Yes/No
3. No. of extra lectures delivered:
4. Feedback from student taken: Yes/No

Signature of the subject Teacher

HOD

Director Cum Principal