

Lesson Plan			
Name of faculty :		Mr. Himanshu	
Discipline :		DIPLOMA IN PHARMACY	
Semester/Year :		2nd Year	
Subject/Code :		PHARMACOLOGY - ER20-21T/21P	
Lesson Plan Duration :		39 weeks (Sept. 2023 to May 2024)	
Work Load (Lecture/Practical) per week (in Hours) :			
WEEK	THEORY		PRACTICAL
	LECTURE DAY	Topic (Including Assignment/Test)	
1st	1st	General Pharmacology Introduction: and scope of Pharmacology	1. Introduction to experimental animals
	2nd	Various routes of drug administration - advantages and disadvantages	
	3rd	Drug absorption - definition, types, factors affecting drug absorption	
2st	1st	Bioavailability and the factors affecting bioavailability Drug distribution - definition, factors affecting drug	2. To perform the Study of local anaesthetics on rabbit eye
	2nd	Biotransformation of drugs - Definition, types of biotransformation reactions, factors influencing drug metabolisms	
	3rd	Excretion of drugs - Definition, routes of drug excretion General mechanisms of drug action and factors	
3rd	1st	REVISION	3. To perform the Study of Mydriatic effect on rabbit eye
	2nd	Drugs Acting on the Peripheral Nervous System	
	3rd	Steps involved in neurohumoral transmission	
4th	1st	Definition, classification, pharmacological actions, dose, indications, and contraindications of Cholinergic drugs	4. Study of Miotic effect on rabbit eye
	2nd	Anti-Cholinergic drugs	
	3rd	Adrenergic drugs	
5th	1st	Anti-adrenergic drugs	4. To perform the Study of Miotic effect on rabbit eye
	2nd	Neuromuscular blocking agents	
	3rd	Drugs used in Myasthenia gravis	
	1st	Local anaesthetic agents	5. To perform the Effect of analgesics using

6th	2nd	Non-Steroidal Anti-Inflammatory drugs (NSAIDs)	5. To perform the Effect of analgesics using Analgesiometer
	3rd	REVISION	
7th	1st	TEST	6. To perform the Study of analgesic activity by writhing test
	2nd	Drugs Acting on the Eye: Definition, classification, pharmacological actions, dose,	
	3rd	Drugs used in Glaucoma	
8th	1st	REVISION	7. To perform the Screening of anti-convulsant using Electro Convulsimeter
	2nd	Drugs Acting on the Central Nervous System: General anaesthetics	
	3rd	Hypnotics and sedatives	
9th	1st	Anti-Convulsant drugs	8. To perform the Screening of Muscle relaxants using Rota-Rod apparatus
	2nd	Anti-anxiety drugs	
	3rd	Anti-depressant drugs	
10th	1st	Anti-psychotics	9. To perform the Screening of CNS stimulants and depressants using Actophotometer
	2nd	Nootropic agents	
	3rd	Centrally acting muscle relaxants	
11th	1st SESSIONAL EXAMINATION		PRACTICAL SESSIONAL EXAMINATION
12th	1st	Opioid analgesics	10. To perform the Study of anxiolytic activity using elevated plus maze method
	2nd	REVISION	
	3rd	Drugs Acting on the Cardiovascular System: Anti-hypertensive drugs	
13th	1st	Anti-anginal drugs	11. To perform the Study of effect of drugs (any 2) on isolated heart
	2nd	Anti-arrhythmic drugs	
	3rd	Drugs used in atherosclerosis	
14th	1st	Congestive heart failure	12. To perform the Effect of drugs on ciliary motility on frog's buccal cavity
	2nd	Drug therapy for shock	
	3rd	REVISION	
15th	1st	Drugs Acting on Blood and Blood Forming Organs: Hematinic agents	13. To perform the Pyrogen testing by rabbit method
	2nd	Anti-coagulants	
	3rd	Anti-platelet agents	
16th	1st	Thrombolytic drugs	REVISION
	2nd	REVISION	
	3rd	Definition, classification: Bronchodilators, Expectorants	

17th	1st	Anti-tussive agents, Mucolytic agents	REVISION
	2nd	REVISION	
	3rd	Drugs Acting on the Gastro Intestinal Tract: Anti-ulcer drugs	
18th	1st	Anti-emetics	REVISION
	2nd	Laxatives and purgatives	
	3rd	Anti-diarrheal drugs	
19th	1st	REVISION	REVISION
	2nd	Drugs Acting on the Kidney: Diuretics	
	3rd	Anti-Diuretics	
20th	1st	Hormones and Hormone Antagonists: Thyroid hormones	REVISION
	2nd	Anti-thyroid drugs	
	3rd	Parathormone	
21st	1st	Calcitonin	REVISION
	2nd	Vitamin D	
	3rd	Insulin	
22nd	1st	Oral hypoglycemic agents	REVISION
	2nd	Estrogen	
	3rd	Progesterone	
23rd	WINTER VACATION		WINTER VACATION
24th	1st	Oxytocin	REVISION
	2nd	Corticosteroids	
	3rd	REVISION	
25th	2nd SESSIONAL EXAMINATION		REVISION
26th	1st	Autocoids: Physiological role of Histamine, 5 HT and Prostaglandins	REVISION
	2nd	Classification, clinical uses, and adverse effects of antihistamines and 5 HT antagonists	
	3rd	REVISION	
27th	1st	Chemotherapeutic Agents: Penicillins	REVISION
	2nd	Cephalosporins	
	3rd	Aminoglycosides	

28th	1st	Fluoroquinolones	REVISION
	2nd	Macrolides	
	3rd	Tetracyclines	
29th	1st	Sulphonamides	REVISION
	2nd	Anti-tubercular drugs	
	3rd	Anti-fungal drugs	
30th	1st	Anti-viral drugs	REVISION
	2nd	Anti-amoebic agents	
	3rd	Anthelmintics	
31st	1st	Anti-malarial agents	REVISION
	2nd	Anti-neoplastic agents	
	3rd	REVISION	
32nd	1st	Biologicals Definition, types, and indications of biological agents with examples	REVISION
	2nd	REVISION	
	3rd	REVISION	
33rd	1st	REVISION	REVISION
	2nd	REVISION	
	3rd	REVISION	
34th	1st	REVISION	REVISION
	2nd	REVISION	
	3rd	REVISION	
35th	1st	REVISION	REVISION
	2nd	REVISION	
	3rd	REVISION	
36th	3rd SESSIONAL EXAMINATION		REVISION
37th	1st	REVISION	REVISION
	2nd	REVISION	
	3rd	REVISION	
38th	1st	REVISION	REVISION
	2nd	REVISION	
	3rd	REVISION	

39th	1st	REVISION	REVISION
	2nd	REVISION	
	3rd	REVISION	