

Performa : Hindu College of Pharmacy, Sonipat (024)				
Lesson Plan				
Name of the faculty		Mrs. Anju Rani		
Discipline		D.Pharmacy		
Semester		2 nd Year		
Subject		Pharmacology		
Lesson plan Duration		29 weeks (20 Aug. 2024 to 30 April 2025)		
Work Load/week(In hour)		Lecture- 03; Practical- 03		
Week	Theory		Practical	
	Lecture Day	Topic	Practical Day	
1 st (Aug. 3 rd Week)	1 st	Introduction to pharmacology , Scope of Pharmacology	1 st (Batch A)	Introduction of basic experimental pharmacology
	2 nd	Routes of administration, advantages and disadvantages	2 nd (Batch B)	Do
	3 rd	Absorption of drugs and factors affecting it		
2 nd (Aug.4 th Week)	1 st	Bioavailability and factor affecting	1 st (Batch A)	Study of laboratory animals
	2 nd	Drug distribution & factors affecting	2 nd (Batch B)	Do
	3 rd	Bio transformation and reactions		
3 rd (Sept. 1 st week)	1 st	Factors influencing Metabolism	1 st (Batch A)	Instruments used in experimental pharmacology
	2 nd	Excretion of drug and routes	2 nd (Batch B)	Do
	3 rd	Mechanism of Drug action and factors affecting		
4 th (Sept.2 nd week)	1 st	Drugs acting on ANS, Cholinergic Drugs	1 st (Batch A)	Viva voce
	2 nd	Anti – Cholinergic Drugs	2 nd (Batch B)	Do
	3 rd	Adrenergic drug		
5 th (Sept.3 rd week)	1 st	Anti Adrenergic Drug	1 st (Batch A)	Viva voce
	2 nd	Neuromuscular blocking agent	2 nd (Batch B)	Do
	3 rd	Drugs used in myasthenia gravis		
6 th (Sept.4 th week)	1 st	Local anaesthetics	1 st (Batch A)	Different routes of administration of drugs in animals
	2 nd	NSAIDS	2 nd (Batch B)	Do
	3 rd	Tutorial		

7th(Oct.1st week)	1st	Drug acting on eye	1st (Batch A)	Types of pre- clinical experiments: in – Vivo , In – Vitro , Ex- Vivo Etc.
	2nd	Miotics - Mydriatics	2nd (Batch B)	Do
	3rd	Drug used in Glucoma		
8th(Oct.2nd week)	1st	Drugs act on CNS	1st (Batch A)	Techniques of blood collection from animals
	2nd	General Anaesthetic	2nd (Batch B)	Do
	3rd	Sedative and hypnotics		
9th(Oct.3rd week)	1st	Anti convulsant drugs	1st (Batch A)	Viva voce
	2nd	Anti- anxiety drugs, Anti-depressant drugs	2nd (Batch B)	Do
	3rd	Anti- psychotics, Nootropic agents		
10th(Oct. 4th week)	1st	Centrally acting muscle relaxants	1st (Batch A)	Study of local anaesthetics on rabbit eye
	2nd	Opioid analgesics	2nd (Batch B)	Do
	3rd	Tutorial		
11th(Oct.5th week)	1st	Drugs acting cardio vascular system	1st (Batch A)	Study of mydriatic effect on rabbit eye
	2nd	Anti hypertensive drugs	2nd (Batch B)	Do
	3rd	Antiarrhythmic agents		
12th(Nov.1st week)	1st	Antianginal agents	1st (Batch A)	Study of miotic effect on rabbit eye
	2nd	Drugs used in atherosclerosis	2nd (Batch B)	Do
	3rd	Congestive heart failure		
13th(Nov.3rd week)	1st	Drug therapy for shock	1st (Batch A)	Viva voce
	2nd	Drugs acting on blood Hematinic agents	2nd (Batch B)	Do
	3rd	Anti- coagulants		
14th(Nov.4th week)	1st	Anti – platelet agents	1st (Batch A)	Effect of analgesics using analgesiometer
	2nd	Thrombolytic drugs	2nd (Batch B)	Do
	3rd	Tutorial		

15th (Dec.1st week)	1st	Drugs acting on GIT	1st (Batch A)	Study of analgesic activity by writhing test
	2nd	Anti – ulcer drugs	2nd (Batch B)	Do
	3rd	Anti- emetics		
16th(Dec.2nd week)	1st	Laxatives and purgatives	1st (Batch A)	Screening of anti- convulsant using Elector Convulsiometer
	2nd	Anti – diarrheal drugs	2nd (Batch B)	Do
	3rd	tutorial		
17th(Dec.3rd week)	1st	Hormone and hormones antagonists, Thyroid hormones	1st (Batch A)	Viva voce
	2nd	Anti – thyroid drugs, Parathormone	2nd (Batch B)	Do
	3rd	Calcitonin & vitamin D		
18th (Jan. 1st Week)	1st	Insulin , Oral hypoglycaemic agents	1st (Batch A)	Screening of Muscle relaxants using rota – rod apparatus
	2nd	Estrogen, Progesterone	2nd (Batch B)	Do
	3rd	Oxytocin		
19th (Jan.2nd week)	1st	Corticosteroids	1st (Batch A)	Screening of CNS stimulants and depressants using Actophometer
	2nd	Tutorial	2nd (Batch B)	Do
	3rd	Histamine and 5 HT		
20th (Jan. 3rd week)	1st	Prostaglandins	1st (Batch A)	Study of anxiolytic activity using elevated plus maze method
	2nd	Antihistamines	2nd (Batch B)	Do
	3rd	5 HT antagonists		
21st (Jan.4th week)	1st	Basics principles of chemotherapy and neoplastic diseases	1st (Batch A)	Viva voce
	2nd	Penicillin	2nd (Batch B)	Do
	3rd	Cephalosporins		
22nd (Feb.1st week)	1st	Aminoglycosides, Fluoroquinolones	1st (Batch A)	Study of effect of drugs on isolated heart
	2nd	Macrolides , Tetracyclines	2nd (Batch B)	Do

	3rd	Sulphonamides , Anti-tubercular drugs		
23rd (Feb. 3rd week)	1st	Anti- fungal drugs	1st (Batch A)	Effect of drugs on ciliary motility on frog's buccal cavity
	2nd	Anti – viral drugs	2nd (Batch B)	Do
	3rd	Anti- amoebic agents		
24th (Feb. 4th Week)	1st	Antielmintics	1st (Batch A)	Pyrogen testing by rabbit method
	2nd	Anti- malarial agents	2nd (Batch B)	Do
	3rd	Anti- neoplastic agents		
25th (Mar.1st week)	1st	Tutorial	1st (Batch A)	Viva voce
	2nd	Biological introduction	2nd (Batch B)	Do
	3rd	Types and indication of biological agents		
26th (Mar.2nd week)	1st	Drug acting on respiratory system	1st (Batch A)	Viva voce
	2nd	Bronchodilators	2nd (Batch B)	Do
	3rd	Expectorants		
27th (Mar. 3rd week)	1st	Anti-tussive agents, Mucolytic agent	1st (Batch A)	Viva voce
	2nd	Tutorial	2nd (Batch B)	Do
	3rd	Drugs acting on kidney		
28th (Mar. 4th week)	1st	Diuretics	1st (Batch A)	Viva voce
	2nd	Anti – diuretics	2nd (Batch B)	Do
	3rd	Tutorial		

After onwards revised the queries regarding the syllabus.

Nov. 2 weeks and Feb 2 week for sessional

Dec. 4th week for winter break

