



PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Pharmacy

Course: Bachelore of Pharmacy



**LESSON PLAN**

**Faculty Name: Dr Poonam Ruhai**

**Subject Name: Pharmacology**

**Class: B.Pharmacy 6<sup>th</sup> Sem**

**Subject Code: BP602T**

**Scope:** This subject is intended to impart the fundamental knowledge on various aspects (classification, mechanism of action, therapeutic effects, clinical uses, side effects and contraindications) of drugs acting on respiratory and gastrointestinal system, infectious diseases, immuno-pharmacology and in addition, emphasis on the principles of toxicology and chronopharmacology.

**Objectives:** Upon completion of this course the student should be able to:

1. Understand the mechanism of drug action and its relevance in the treatment of Different infectious diseases
2. Comprehend the principles of toxicology and treatment of various poisonings and
3. Appreciate correlation of pharmacology with related medical sciences.

**Number of Lectures: 45**

**Each Lecture: 01 Hour**

Lecture No.	Particular	Date/ Remark
<b>UNIT-I (10Hrs)</b>		
<b>Pharmacology of drugs acting on Respiratory system</b>		
1.	Anti -asthmatic drugs	
2.	Drugs used in the management of COPD	
3.	Expectorants and Antitussives	
4.	Nasal decongestants	
5.	Respiratory stimulants	
<b>Pharmacology of Drugs acting on the Gastrointestinal Tract</b>		
6.	Antiulcer Agents	
7.	Drugs for Constipation and Diarrhoea.	
8.	Appetite Stimulants and Suppressants.	
9.	Digestants and Carminatives.	
10.	Emetics and Anti-emetics.	
<b>UNIT-II (10 Hrs)</b>		
	<b>Chemotherapy</b>	
11	General principles of chemotherapy.	
12	Sulfonamides and cotrimoxazole.	
13	Cephalosporins,	

14	Chloramphenicol	
15	Macrolides,	
16	Quinolones	
17	Fluoroquinolins	
18	Tetracycline	
19	Aminoglycosides	
<b>UNIT-III (10 Hrs)</b>		
	<b>Chemotherapy</b>	
20	Antitubercular agents	
21	Antitubercular agents	
22	Antileprotic agents	
23	Antileprotic agents	
24	Antifungal agents	
25	Antiviral drugs	
26	Anthelmintics	
27	Antimalarial drugs	
28	Antiamoebic agents	
29	Antiamoebic agents	
<b>UNIT-IV(8 Hrs)</b>		
	<b>Chemotherapy</b>	
30	Urinary tract infections and	
31	sexually transmitted diseases	
32	Chemotherapy of malignancy	
33	Chemotherapy of malignancy	
	<b>Immunopharmacology</b>	
34	Immunostimulants	
35	Immunosuppressant	
36	Protein drugs	
37	Target drugs to antigen	
38	Biosimilars	
39	Monoclonal antibodies	
<b>UNIT-V (7Hrs)</b>		
	<b>Principles of toxicology</b>	
40	Definition and basic knowledge of acute, subacute and chronic toxicity.	
41	Definition and basic knowledge of genotoxicity, carcinogenicity, teratogenicity and mutagenicity	
42	General principles of treatment of poisoning	
43	Clinical symptoms and management of barbiturates, morphine, organophosphorus	
44	Clinical symptoms and management of lead, mercury and arsenic poisoning.	
	<b>Chronopharmacology</b>	
45	Definition of rhythm and cycles Biological clock and their significance leading to chronotherapy.	