



TEACHING PLAN: PHARMACOLOGY-III (Theory)

SCHOOL: (SOP) SCHOOL OF PHARMACY		ACADEMIC SESSION: 2023-24	FOR STUDENTS' BATCH: 2023-24		
1	Course No.	BP602 T			
2	Course Title	PHARMACOLOGY-III (Theory)			
3	Credits	4			
4	Learning Hours	Contact Hours	45		
		Assessment	10		
		Guided Study	20		
		Total hours	75		
5	Course Objective	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.			
6	Course Outcomes	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			
7	Outline syllabus:				
7.01	Paper Code	Unit	Introduction	Page Numbers¹	Lectures
7.02	Unit I	(a)	Pharmacology of drugs acting on Respiratory system a. Anti-asthmatic drugs b. Drugs used in the management of COPD c. Expectorants and anti-tussives d. Nasal decongestants e. Respiratory stimulants	7-9	3
		(b)	Pharmacology of drugs acting on the Gastrointestinal Tract a. Antiulcer agents. b. Drugs for constipation and diarrhoea. c. Appetite stimulants and suppressants. d. Digestants and carminatives. e. Emetics and anti-emetics.	18-21	3
7.03	Unit II	(a)	Chemotherapy a. General principles of chemotherapy.	32-38	3
		(b)	b. Sulfonamides and cotrimoxazole.	39-43	3

		(c)	c. Antibiotics- Penicillins, cephalosporins, chloramphenicol, macrolides, quinolones and fluoroquinolins, tetracycline and aminoglycosides	44-48	4
7.04	Unit III	(a)	Chemotherapy a. Antitubercular agents b. Anti-leprotic agents c. Antifungal agents	53-58	4
		(b)	d. Antiviral drugs e. Anthelmintics	61-65	3
		(c)	f. Anti-malarial drugs g. Anti-amoebic agent		3
7.05	Unit IV	(a)	3. Chemotherapy a. Urinary tract infections and sexually transmitted diseases. b. Chemotherapy of malignancy.	72-75	4
		(b)	4. Immunopharmacology a. Immunostimulants b. Immunosuppressant Protein drugs, monoclonal antibodies, target drugs to antigen, biosimilars	88-92	3
		(c)	c. General principles of treatment of poisoning d. Clinical symptoms and management of barbiturates, morphine, organophosphorus compound and lead, mercury and arsenic poisoning.	93-95	3
7.06	Unit V	(a)	5. Principles of toxicology a. Definition and basic knowledge of acute, subacute and chronic toxicity. b. Definition and basic knowledge of genotoxicity, carcinogenicity, teratogenicity and mutagenicity c. General principles of treatment of poisoning d. Clinical symptoms and management of barbiturates, morphine, organophosphorus compound and lead, mercury and arsenic poisoning.	113-117	3
		(b)	6. Chronopharmacology a. Definition of rhythm and cycles. b. Biological clock and their significance leading to chronotherapy	118-123	6
8	Course Evaluation				
8.1	CA: 30%				

8.11	Attendance	--
8.12	Homework	4 Assignments, 10%
8.13	Quizzes	4 Quizzes, 80%
8.14	Projects	1 Project, 5%
8.15	Presentation	1 Presentation, 5%
8.16	Any other	--
8.2	MTE	20%
8.3	End-term examination: 50%	
9	Text Books & References	
9.1	Text book	<ol style="list-style-type: none"> 1. Rang H. P., Dale M. M., Ritter J. M., Flower R. J., Rang and Dale's Pharmacology, Churchill Livingstone Elsevier 2. Katzung B. G., Masters S. B., Trevor A. J., Basic and clinical pharmacology, Tata Mc Graw-Hill 3. Goodman and Gilman's, The Pharmacological Basis of Therapeutics 4. Marry Anne K. K., Lloyd Yee Y., Brian K. A., Robbin L.C., Joseph G. B., Wayne A. K., Bradley R.W., Applied Therapeutics, The Clinical use of Drugs. The Point Lippincott Williams & Wilkins 5. Mycek M.J, Gelnet S.B and Perper M.M. Lippincott's Illustrated Reviews- Pharmacology 6. K.D.Tripathi. Essentials of Medical Pharmacology, , JAYPEE Brothers Medical Publishers (P) Ltd, New Delhi. 7. Sharma H. L., Sharma K. K., Principles of Pharmacology, Paras medical publisher Modern Pharmacology with clinical Applications, by Charles R.Craig & Robert, 8. Ghosh MN. Fundamentals of Experimental Pharmacology. Hilton & Company, Kolkata, 9. Kulkarni SK. Handbook of experimental pharmacology. VallabhPrakashan, 10. N.Udupa and P.D. Gupta, Concepts in Chronopharmacology