



Program	Master of Pharmacy (M.Pharm)	Semester - 2
Type of Course	-	
Prerequisite		
Course Objective	-	
Effective From A.Y.	2023-24	

Teaching Scheme (Contact Hours)				Examination Scheme				
Lecture	Tutorial	Lab	Credit	Theory Marks		Practical Marks		Total Marks
				External Marks (T)	Internal Marks (T)	External Marks (P)	Internal Marks (P)	
4	-	-	4	75	25	-	-	100

SEE - Semester End Examination, CIA - Continuous Internal Assessment (It consists of Assignments/Seminars/Presentations/MCQ Tests, etc.)

Course Content		T - Teaching Hours W - Weightage	
Sr.	Topics	T	W
1	Unit 1 Endocrine Pharmacology Molecular and cellular mechanism of action of hormones such as growth hormone, prolactin, thyroid, insulin and sex hormones, Anti-thyroid drugs, Oral hypoglycemic agents, Oral contraceptives, Corticosteroids. Drugs affecting calcium regulation	12	20
2	Unit 2 Chemotherapy Cellular and molecular mechanism of actions and resistance of antimicrobial agents such as β -lactams, aminoglycosides, quinolones, Macrolide antibiotics. Antifungal, antiviral, and anti-TB drugs.	12	20
3	Unit 3 Chemotherapy Drugs used in Protozoal Infections Drugs used in the treatment of Helminthiasis, Chemotherapy of cancer. Immunopharmacology Cellular and biochemical mediators of inflammation and immune response. Allergic or hypersensitivity reactions. Pharmacotherapy of asthma and COPD. Immunosuppressants and Immunostimulants	12	20
4	Unit 4 GIT Pharmacology Antiulcer drugs, Prokinetics, antiemetics, anti-diarrheals and drugs for constipation and irritable bowel syndrome. Chronopharmacology Biological and circadian rhythms, applications of chronotherapy in various diseases like cardiovascular disease, diabetes, asthma and peptic ulcer.	12	20
5	Unit 5	12	20



Course Content

T - Teaching Hours | W - Weightage

Sr.	Topics	T	W
	Free radicals Pharmacology Generation of free radicals, role of free radicals in etiopathology of various diseases such as diabetes, neurodegenerative diseases and cancer. Protective activity of certain important antioxidant. Recent Advances in Treatment: Alzheimer's disease, Parkinson's disease, Cancer, Diabetes mellitus.		
Total		60	100

Suggested Distribution Of Theory Marks Using Bloom's Taxonomy

Level	Understanding	Application	Analyze
Weightage	35	35	30

NOTE : This specification table shall be treated as a general guideline for the students and the teachers. The actual distribution of marks in the question paper may vary slightly from above table.

Course Outcomes

At the end of this course, students will be able to:

C01	Knowledge of Various drugs in various disease
C02	Study of redicals in development of various disease.

Reference Books

1.	Goodman and Gilman's, The Pharmacological Basis of Therapeutics (TextBook) By Goodman and Gilman
2.	Basic and Clinical Pharmacology (TextBook) By Bertram G. Katzung McGraw-Hill Education
3.	PRINCIPLES OF PHARMACOLOGY By HL SHARMA, KK SHARMA PARAS PUBLICATION 3rd, Pub. Year 2008
4.	Essentials of Medical Pharmacology By K. D. Tripathi JAYPEE Brothers Medical Publishers (P) Ltd, New Delhi.
5.	Rang and Dale's Pharmacology By Rang H. P., Dale M. M., Ritter J. M., Flower R. J. Churchill Livingstone Elsevier
6.	Modern Pharmacology with Clinical Applications By Charles R. Craig Lippincott Williams and Wilkins
7.	Lippincott Williams & Wilkins: Applied Therapeutics, The Clinical use of Drugs By Marry Anne K. K., Lloyd Yee Y., Brian K. A., Robbin L.C., Joseph G. B., Wayne A. K., Bradley R.W. The Point
8.	A Complete Textbook of Medical Pharmacology (TextBook) By Dr. S.K Srivastava APC Avichal Publishing Company