



Program	Master of Pharmacy (M.Pharm)	Semester - 1
Type of Course	-	
Prerequisite		
Course Objective	-	
Effective From A.Y.	2023-24	

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

Cou	rse Content	T - Teaching Hours W	- Weig	ghtag
Sr.	Topics		Т	W
1	Unit 1		12	20
	animals: Production breeding of laborates	atory animals: Description, handling and applications of different species and strains of animals. Trans- ction, maintenance and applications Anesthesia and euthanasia of experimental animals. Maintenance oratory animals. CPCSEA guidelines to conduct experiments on animals good laboratory practice. Bioa e and limitations and methods	and	
2	Unit 2		12	20
		ening of new substances for the pharmacological activity using in vivo, in vitro, and other possible anin		10
	stimulants and like Parkinsonis	els. General principles of preclinical screening. CNS Pharmacology: behavioral and muscle coordinatio depressants, anxiolytics, anti-psychotics, antiepileptics and nootropics. Drugs for neurodegenerative dom, Alzheimers and multiple sclerosis. Drugs acting on Autonomic Nervous System.		
3	stimulants and	depressants, anxiolytics, anti-psychotics, antiepileptics and nootropics. Drugs for neurodegenerative d		es
3	unit 3 Preclinical screalternative mod Aphrodisiacs and like Parkinsonis	depressants, anxiolytics, anti-psychotics, antiepileptics and nootropics. Drugs for neurodegenerative d	12 nal	es 20 ogy:
3	unit 3 Preclinical screalternative mod Aphrodisiacs and like Parkinsonis	depressants, anxiolytics, anti-psychotics, antiepileptics and nootropics. Drugs for neurodegenerative dem, Alzheimers and multiple sclerosis. Drugs acting on Autonomic Nervous System. ening of new substances for the pharmacological activity using in vivo, in vitro, and other possible aningles. Respiratory Pharmacology: anti-asthmatics, drugs for COPD and anti allergics. Reproductive Pharmacological activity agents Analgesics, antiinflammatory and antipyretic agents. Gastrointestinal drugs: antic	12 nal	es 20 ogy: anti
	Unit 3 Preclinical screaternative mod Aphrodisiacs are emetic, anti-dia Unit 4 Preclinical screaternative mod Cardiovascular	depressants, anxiolytics, anti-psychotics, antiepileptics and nootropics. Drugs for neurodegenerative dem, Alzheimers and multiple sclerosis. Drugs acting on Autonomic Nervous System. ening of new substances for the pharmacological activity using in vivo, in vitro, and other possible aningles. Respiratory Pharmacology: anti-asthmatics, drugs for COPD and anti allergics. Reproductive Pharmacological activity agents Analgesics, antiinflammatory and antipyretic agents. Gastrointestinal drugs: anticarrheal and laxatives.	12 nal nacolulcer, 12 nal	20 ogy: anti-

Printed on: 31-12-2024 02:57 PM Page 1 of 2

60

Total

100





Cour	se Content	T - Teaching Hours W -	Weig	htage
Sr.	Topics		Т	W
	alternative mod limmunomodula optimization of protocol outline	ening of new substances for the pharmacological activity using in vivo, in vitro, and other possible anim els. ators, Immunosuppressants and immunostimulants General principles of immunoassay: theoretical bas immunoassay, heterogeneous and homogenous immunoassay systems. Immunoassay methods evaluate, objectives and preparation. Immunoassay for digoxin and insulin Limitations of animal experimentation I experiments. Extrapolation of in vitro data to preclinical and preclinical to humans	is an tion;	

Suggested Distri	ibution Of Theory I	Marks Using Bloor	n's Taxonomy
•	ь .		

Level Remembrance Understanding Weightage 50 50

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

Cou	ise outcomes				
At th	At the end of this course, students will be able to:				
C01	Ability to appra	se the regulation and ethical requirment for use of animals and handaling of experimental animals.			
C02	Ability to descri	be the various screening methods used for immunomodulators, alternative to animals experiments and correlate to humans.			

Deference Books

Refe	erence Books	
1.		Iedical Pharmacology (TextBook) Jaypee Brothers Medical Publishers
2.		F PHARMACOLOGY (TextBook) ,, KK SHARMA PARAS PUBLICATION 3rd, Pub. Year 2008
3.	•	and Evaluation Pharmacological Assay rd Vogel Springer 3, Pub. Year 2008
4.		of Experimental Pharmacology (TextBook) B S Shah Prakashan 9, Pub. Year 2017
5.	•	Practice of Immunoassay P Price, David J Newman Stockton Press 1, Pub. Year 1991
6.		harmacology (TextBook) B S Shah Prakashan 9, Pub. Year 2017

Printed on: 31-12-2024 02:57 PM Page 2 of 2