Total 60

100



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 Marks		Practical Marks		Total
Lecture	Tutorial	Lab	Credit	External Marks (T)	Internal Marks (T)	External Marks (P)	Internal Marks (P)	Marks
4	-	-	4	75	25	-	-	100

Cou	rse Content						•	T - Teac	ching Hour	rs   <b>W</b> - Wei	ghta
Sr.	Topics	_								Т	W
1	Principles of D	rug discovery	and development							12	20
	for Investigation	onal New Drugs New Drug Appl	and development: I s Application (IND) ication (SNDA), Sc keting surveillance	, New Drug Ap ale Up Post A	pplication(ND <i>A</i> approval Chang	A), Abbreviat ges (SUPAC)	ed New and Bu	Drug Ap lk active	pplication	(ANDA),	
2	Pre-formulatio	n studies								12	20
	to improve solu	ubility of Drugs	leptic properties, p	p; its importa	nce, co-solven	cy. Techniqu					
	polymorphism.	Pre-rommulati	on protocol, Stabili	ity testing dur	ing product de	velopilielit.					
3	Pilot plant sca		on protocoi, Stabili	ity testing dur	ing product de	усторители.				12	20
3	Pilot plant scal	le up ficance, design cess, stability	n, layout of pilot pla and quality contro	ant scale up s	tudy, operation	ns,large scal				ues (formu	la,
	Pilot plant scal  Concept, Signif equipment, pro products: oppo	le up ficance, desigr cess, stability ortunities and	ı, layout of pilot pla	ant scale up s	tudy, operation	ns,large scal				ues (formu	la,
3	Pilot plant scal  Concept, Signif equipment, pro products: opportiallenges.  Pharmaceutical Pharmaceutical Enteral Package	le up ficance, design cess, stability ortunities and al packaging al dosage form ing, Aseptic pa	ı, layout of pilot pla	ant scale up s l) of solids, lid ng requiremer Container clo	tudy, operation quids, semisol nts,Pharmaceu osure systems,	ns,large scal id and paren tical packag Issues facir	ing mat	erials, N	rms. New  Medical de	ues (formu era of drug 12 evice packa g, Selection	ging,
	Pilot plant scal  Concept, Signif equipment, pro products: opportiallenges.  Pharmaceutical Pharmaceutical Enteral Package	le up ficance, design cess, stability ortunities and al packaging al dosage form ing, Aseptic parharmaceutica	and quality contro	ant scale up s l) of solids, lid ng requiremer Container clo	tudy, operation quids, semisol nts,Pharmaceu osure systems,	ns,large scal id and paren tical packag Issues facir	ing mat	erials, N	rms. New  Medical de	ues (formu era of drug 12 evice packa g, Selection	ging,

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Suggested Distribution Of Theory Marks Using Bloom's Taxonomy					
Level	Remembrance	Understanding	Application	Analyze	
Weightage	35	35	20	10	

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.

Cour	Outcomes				
At the	At the end of this course, students will be able to:				
C01	asic knowledge of new product development process and its preformulation studies				
C02	Inderstanding the concept of pilot plant scale up, pharmaceutical packaging and technology transfer				

Ref	erence Books
1.	THE SCIENCE AND PRACTICE OF PHARMACY By REMINGTON-   LIPPINCOTT WILLIAMS and WIKINS   21ST, Pub. Year 2005
2.	THE THEORY AND PRACTICE OF INDUSTRIAL PHARMACY (TextBook) By LACHMEN/LIBERMAN'S   CBS PUBLISHER and DISTRIBUTORS   4TH, Pub. Year 2009
3.	THE PHARMACEUTICAL REGULATORY PROCESS By ROBERT.P.MARTIN   INFORMA HEALTHCARE   2ND, Pub. Year 2008
4.	AULTON'S PHARMACEUTICS-THE DESIGN AND MANUFACTURE OF MEDICINES (TextBook) By MICHAEL E.AULTON KEVIN M.G.TAYLOR   ELSEVIER   4TH, Pub. Year 2013
5.	Cooper and Gunn's Tutorial pharmacy (TextBook) By S.J. Carter   CBS PUBLISHERS AND DISTRIBUTORS   6TH, Pub. Year 2005
6.	GOOD MANUFACTURING OF PHARMACEUTICALS By Sidney H. Willing ,Murray M,Tuckerman   Bhalani Publishing House   3rd, Pub. Year 2008

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