

RAJJU SHROFF ROFEL UNIVERSITY, VAPI

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

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

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

Cou	rse Content											Τ-	Teachi	ng Hours	<b>W</b> - W	eig	htage
Sr.	Topics														1	r	W
1	UNIT I														1	5	25
	product dev performanc up process b. Regulator	elopment Introdu e, in-vitro, ANDA r approval changes	ceutical industry: M ction, Hatch- Waxn egulatory approva s, post marketing s product approval: foreign drugs	nan act and amenc l process, NDA app urveillance, outsou	lment roval rcing	nts, al pr 1g B <i>i</i>	s, C pro BA	CFI roce A ai	R (Č ess, nd B	ODE BE a BE to	OF Fl and dr CRO.	EDERAI ug pro	REGU	LATION),dr sessment,	ug pro in –viv	odu vo,	ct scale
2	UNIT II														1	5	25
	and FDA liai		y affairs Regulatio ines of ICH-Q, S E, es.								cal de	vices.	CTD an	d ECTD for	mat, ir	ndu	istry
3	UNIT III														1	5	25
			nt: Global submissi nvestigator brochu		NDA.	. Inv	nve	/est	tigat	tion	of me	dicinal	produc	ts		1	
4	UNIT IV	, , , , , , , , , , , , , , , , ,		. ,											1	5	25
	Formulation	and working pro	ical trial protocols. cedures informed ( rmacovigilance sa	Consent process a	nd pro	oroce	ce	edu	ıres.							1	
														To	tal 6	0	100
Sug	gested Distril	ution Of Theory	Marks Using Bloor	n's Taxonomy													
Level		Remembrance	Understanding	Application													
			-														

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.

25

50

25

Weightage



## RAJJU SHROFF ROFEL UNIVERSITY, VAPI

A STEP AHEAD TOWARDS A SUCCESSFUL CAREER

## **Course Outcomes**

At the end of this course, students will be able to:						
C01	CO1 Understanding the concept of innovator and generic drug development.					
C02	C02 To know regulatory guidelines for product approval and post approval requirements of variour countries.					
C03	CO3 To know and understand the concept of clinical trial requirements and pharmacovigilence.					

## **Reference Books**

1.	<ul> <li>Generic Drug Product Development (TextBook)</li> <li>By Leon Sharge   Marcel Dekker series   Vol. 3</li> </ul>				
2.	The Pharmaceutical Regulatory Process (TextBook) By Ira R. Berry and Robert P.Martin   Informa Health care Publishers   Second				
3.	New Drug Approval Process By Richard A Guarino   Drugs and the Pharmaceutical Sciences   Fifth				
4.	Guidebook for drug regulatory submissions By Sandy Weinberg   John Wiley & Sons.Inc				
5.	FDA regulatory affairs By Douglas J. Pisano   David Mantus				
б.	Clinical Trials and Human Research By y Fay A. Rozovsky and Rodney K. Adams				