

**RAJJU SHROFF ROFEL UNIVERSITY, VAPI** 

Program Semester - 2 Bachelor of Pharmacy (BPharm) -**Type of Course** Prerequisite **Course Objective** \_ **Effective From A.Y.** 2024-25

Teaching Scheme (Contact Hours)				Examination Scheme				
	Tutorial	Lab	Credit	Theory Marks		Practical Marks		Total
Lecture				External Marks (T)	Internal Marks (T)	External Marks (P)	Internal Marks (P)	Marks
3	-	2	4	50	25	15	10	100

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

Cour	Course Content T - Teaching Hours   W - Weightag			
Sr.	Topics		Т	W
1	UNIT-I		6	20
	<ol> <li>Number Syst conversion deci Two's complem</li> <li>Concept of In diagrams, proce</li> </ol>	<b>rem:</b> Binary number system, Decimal number system, Octal number system, Hexadecimal number system imal to binary, binary to decimal, octal to binary etc, binary addition, binary subtraction – One's compler tent method, binary multiplication, binary division <b>Information Systems and Software:</b> Information gathering, requirement and feasibility analysis, data flow tess	m, nent, w	
2	UNIT-II		6	20
	3. Web Technol Products	logies: Introduction to HTML, XML, CSS and Programming languages, Introduction to Web Servers and S	Serve	r
	Introduction to	databases, MYSQL, MS ACCESS, Pharmacy Drug database		
3	UNIT-III		6	20
	<b>4. Application o</b> Drug design, Ho and automated Diagnostic Syst	of Computer in Pharmacy – Drug information storage and retrieval, Pharmacokinetics, Mathematical mo ospital and Clinical Pharmacy, Electronic Prescribing and discharge (EP) systems, barcode medicine ide dispensing of drugs, mobile technology and adherence monitoring em. Lab-diagnostic System. Patient Monitoring System. Pharma Information System	odel i ntific	n ation
4			0	20
	<b>5. Bioinformati</b> Bioinformatics	<b>cs:</b> Introduction, Objective of Bioinformatics, Bioinformatics Databases, Concept of Bioinformatics, Imp in Vaccine Discovery	act o	f
5	UNIT-V		6	20
	<b>6. Computers a</b> Management Sy	<b>s data analysis in Preclinical development:</b> Chromatographic Data Analysis (CDS), Laboratory Informat ystem (LIMS) and Text Information Management System (TIMS)	ion	
	I	Total	30	100



# RAJJU SHROFF ROFEL UNIVERSITY, VAPI

A STEP AHEAD TOWARDS A SUCCESSFUL CAREER

## Suggested Distribution Of Theory Marks Using Bloom's Taxonomy

••	•	•	•			
Level	Remembrance	Understanding	Application	Analyze	Evaluate	Create
Weightage	30	30	20	10	5	5

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	Basic knowledge of computer number system and information managment system			
C02	Knowledge and ability to work with currently used web technologies and pharmacy dug database			
C03	Knowlegde of various computerised systems in pharmacy & bioinformatics			
C04	Knowlegde of computer data analysis tools in preclinical development			
C05	Ability to perform applications of databases in pharmacy			

## **Reference Books**

1.	<b>Computer Application in Pharmacy</b> By William E. Fassett–Lea and Febiger   600 South Washington Square, USA, (215) 922-1330
2.	<b>Computer Application in Pharmaceutical Research and Development</b> By Sean Ekins–Wiley-Interscience   A John Willey and Sons, INC., Publication, USA
3.	<b>Bioinformatics (Concept, Skills and Applications)</b> By S. C. Rastogi   CBS Publishers and Distributors, 4596/1- A, 11 Darya Gani, New Delhi – 110 002(INDIA)
4.	<b>Application Development Using VBA, SQL Server, DAP and Infopath</b> By Cary N. Prague   Wiley Dreamtech India (P) Ltd., 4435/7, Ansari Road, Daryagani, New Delhi – 110002   Microsoft office Access - 2003

# List of Practical

1.	Design a questionnaire using a word processing package to gather information about a particular disease
2.	Create a HTML web page to show personal information
3.	Retrieve the information of a drug and its adverse effects using online tools
4.	Creating mailing labels Using Label Wizard, generating label in MS WORD
5.	Create a database in MS Access to store the patient information with the required fields Using access
6.	Design a form in MS Access to view, add, delete and modify the patient record in the database
7.	Generating report and printing the report from patient database
8.	Creating invoice table using – MS Access
9.	Drug information storage and retrieval using MS Access
10.	Creating and working with queries in MS Access
11.	Exporting Tables, Queries, Forms and Reports to web pages
12.	Exporting Tables, Queries, Forms and Reports to XML pages