

Bachelor of Science in Biochemistry
[3 Years Regular/4 Years (Honours/honours with Research)]

Faculty of Applied Sciences

Parul University

Teaching and Examination Scheme for Batch 2023-24

(**NOTE:** A credit is a unit by which the coursework is measured. It determines the number of hours of instruction required per week over the duration of a semester (Minimum 15 weeks/90 days))

1. 1 Theory Credit = 15 hours of academic activity engagement in a semester
2. 1 Credit of (Practical/Internship/workshop-based activity/ Self-Learning-Online/Offline) = 30 Hours of engagement in a semester
3. 1 Credit of Experiential learning (Field Visit/ Industry Visit)/ Assignments = 40-45 hours of engagement in a semester.
4. Research Project/Dissertation: Entire Seventh & Eighth Semesters (12 Credits)

T = Theory , P = Practical , CE = Continuous Evaluation

Semester 1

[illegible]

Semester 2

[illegible]

Semester 3

[illegible]

Semester 4

[illegible]

Semester 5

[illegible]

Semester 6

				Teaching Scheme (Hours / Week)			Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
NCrF Credit Level	Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int.+Ext.	Int.+Ext.	
		Major (Discipline Specific Course)												
5.5	11010306DS01	Plant Biochemistry	4	4	-	-	20	-	20	60	-	40	-	100
	11010306DS02	Clinical Biochemistry	4	4	-	-	20	-	20	60	-	40	-	100
		Elective												
	11010306DS31	Nutritional Biochemistry	4	4	-	-	20	-	20	60	-	40	-	100
	11010306DS32	Hormone Biochemistry		4	-	-	20	-	20	60	-	40	-	100
	11010306DS03	Lab-I Plant Biochemistry	2	-	4	-	-	40	-	-	60	-	50	100
	11010306DS04	Lab-II- Clinical Biochemistry	2	-	4	-	-	40	-	-	60	-	50	100
		Ability Enhancement Course -5												
	00019306AE01	Professional Ethics and Communication	2	-	-	-	-	-	100	-	-	40	-	100
	11010306IN01	Internship/Mini Project-1 (in Major Specific Course)	4	-	8	-	-	40	-	-	60	-	50	100
		Total	22											

Internship Guidelines: 30 days (120 Hrs.)

Semester 7

				Teaching Scheme (Hours / Week)			Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
NCrF Credit Level	Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int.+Ext.	Int.+Ext.	
6.0		Major (Discipline Specific Course)												
	11010007DS01	Research Methodology	4	4	-	-	20	-	20	60	-	40	-	100
	11010207DS02	Bioinformatics	4	4	-	-	20	-	20	60	-	40	-	100
	11010107DS03	Virology	4	4	-	-	20	-	20	60	-	40	-	100
	11010207DS04	Nanotechnology	4	4	-	-	20	-	20	60	-	40	-	100
	11010307IN01	On Job Training (OJT)- in Major Specific (for Honours Degree)	6	-	-	-		60	-	-	90	-	75	150
		OR												
	11010307RP01	Research Project in Major Specific course (For Honours with Research degree)	6	-	-	-	-	60	-	-	90	-	75	150
		Total	22											

Research Project Guidelines:

Advanced – level disciplinary/interdisciplinary courses related to topic selection and research methodology and initial stage of research will be conducted like: determining the definition of the information needed, determining the methods of collection of qualitative and quantitative data, conducting secondary data analysis etc.

On-the-Job Training Guidelines: 45 days (180 Hrs.)

Semester 8

				Teaching Scheme (Hours / Week)			Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
NCrF Credit Level	Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int.+Ext.	Int.+Ext.	
6.0		Major (Discipline Specific Course)												
	11010208DS01	Introduction to omics	4	4	-	-	20	-	20	60	-	40	-	100
	11010308DS02	Bioethics and IPR	4	4	-	-	20	-	20	60	-	40	-	100
	11010308DS03	Medical Biochemistry	4	4	-	-	20	-	20	60	-	40	-	100
	11010308DS04	Toxicology & pharmacology	4	4	-	-	20	-	20	60	-	40	-	100
	11010308IN01	On Job Training (OJT) - in Major Specific (for Honours Degree)	6	-	-	-		60	-	-	90	-	75	150
		OR												
	11010308RP01	Research Project in Major Specific course (For Honours with Research degree)	6	-	-	-	-	60	-	-	90	-	75	150
		Total	22											
Total Credit of the Programme			176											

Research Project Guidelines:

The final semester will be devoted to seminar presentation, preparation and submission of research project report/dissertation. The project work/dissertation will be on a topic in the disciplinary programme of study or an interdisciplinary topic.

On-the-Job Training Guidelines: 45 days (180 Hrs.)

Note: Course Curriculum from 4th Semester up to 8th semester may undergo revision. Any revision to this effect will be uploaded on the University Website. Students are requested to visit the University Website for any updates related to the revision in the course curriculum or shall contact Dean/HoI/Hod for the same.