

Bachelor of Science in Biotechnology (Pre-Med)
[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 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	11010206DS06	Biostatistics and Calculus	4	4	-	-	20	-	20	60	-	40	-	100
	11010206DS02	Genomics & Proteomics	4	4	-	-	-	-	-	60	-	40	-	100
	11010206DS07	Physiology	4	4	-	-	20	-	20	60	-	40	-	100
	11010206DS08	Lab-1 Biostatics and Physiology	2	-	4	-	-	40	-	-	60	-	50	100
	11010206DS04	Lab-2 Genomics & Proteomics	2	-	4	-	-	40	-	--	60	-	50	100
		Ability Enhancement Course -5												
	00019306AE01	Professional Ethics and Communication	2	-	-	-	-	-	100	-	-	40	-	100
	11010206IN01	Internship/Mini Project-1 (in Major Specific Course)	4		-			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	
	11010207DS03	Bioprocess technology	4	4	-	-	20	-	20	60	-	40	-	100	
	11010207DS04	Stem cell Biology	4	4	-	-	20	-	20	60	-	40	-	100	
	11010207IN01	On Job Training (OJT)- in Major Specific (for Honours Degree)	6	-	-	-	-	60	-	-	90	-	75	150	
		OR													
	11010207RP01	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

NCrF Credit Level	Code	Subject	Credit	Teaching Scheme (Hours / Week)			Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
				Lect	Lab	Tut	T	P	CE	T	P	Int.+Ext.	Int.+Ext.	
6.0		Major (Discipline Specific Course)												
	11010208DS01	Bionanotechnology	4	4	-	-	20	-	20	60	-	40	-	100
	11010208DS02	Bioethics & Biosafety	4	4	-	-	20	-	20	60	-	40	-	100
	11010208DS03	Transgenics and Recent Advances	4	4	-	-	20	-	20	60	-	40	-	100
	11010208DS04	Entrepreneurship Development & IPR	4	4	-	-	20	-	20	60	-	40	-	100
	11010208IN01	On Job Training (OJT) - in Major Specific (for Honours Degree)	6	-	-	-	-	60	-	-	90	-	75	150
		OR												
	11010208RP01	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.