

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

Faculty of Applied Sciences

Parul University

Teaching and Examination Scheme for Batch 2023-24
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(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)
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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
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3. 1 Credit of Experiential learning (Field Visit/ Industry Visit)/ Assignments = 40-45 hours of engagement in a semester.
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4. Research Project/Dissertation: Entire Seventh & Eighth Semesters (12 Credits)
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Bachelor of Science Physics with Minor in
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1. Data Analytics

2. Chemistry

3. Mathematics

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	11010406DS01	Quantum Mechanics	4	4	-	-	20	-	20	60	-	40	-	100
	11010406DS02	Solid State Physics	3	3	-	-	20	-	20	60	-	40	-	100
	11010406DS03	Thermodynamics & Statistical Physics	4	4	-	-	20	-	20	60	-	40	-	100
	11010406DS04	LAB: Solid State Physics	1	0	2	-	-	20	20	-	30	-	25	50
		Minor -6 / Interdisciplinary Course (Select any one)												
	03010506DA01	Data Analytics: Computational Data analytics	3	3	-	-	20	-	20	60	-	40	-	100
	03010506DA02	Data Analytics: LAB: Computational Data analytics	1	-	2	-	-	20	-	-	30	-	25	50
	11010506CH01	Chemistry: Basics of Analytical chemistry	4	4	-	-	20	-	20	60	-	40	-	100
	11010606MA01	Mathematics: Numerical Methods using MATLAB	4	3	2	-	20	20	20	60	30	40	25	150
		Ability Enhancement Course -5												
	00019306AE01	Professional Ethics and Communication	2	2	-	-	-	-	100	-	-	40	-	100
	11010406IN01	Internship/Mini Project-1 (in Major Specific Course)	4	-	-	-	-	40	-	-	60	-	50	100
		Total	22											

Internship Guidelines: 30 days (120 Hrs.)

Semester 7

[illegible]

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

[illegible]

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.