

Bachelor of Science in Industrial Chemistry

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	11011706DS01	Industrial Chemical Processes	4	4	-	-	20	-	20	60	-	40	-	100
	11011706DS02	Lab – 1 : Industrial Chemical Processes	2	-	4	-	-	20	-	-	30	-	25	50
	11011706DS03	Physical Chemistry	4	4	-	-	20	-	20	60	-	40	-	100
	11011706DS04	Lab - 2 : Physical Chemistry	2	-	4	-	-	20	-	-	30	-	25	50
	11011706DS05	Analytical Chemistry – II	4	4	-	-	20	-	20	60	-	40	-	100
		Ability Enhancement Course -5												
	00019306AE01	Professional Ethics and Communication	2	-	-	-	-	-	100	-	-	40	-	100
	11011506IN01	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)												
	11011707DS01	Nanomaterial Chemistry	3	3	-	-	20	-	20	60	-	40	-	100
	11011707DS02	Aspects of Industrial Safety	4	4	-	-	20	-	20	60	-	40	-	100
	11011707DS03	Regulatory Guidelines in Chemical Industry	3	3	-	-	20	-	20	60	-	40	-	100
	11011707DS04	Basic Name Reactions	4	4	-	-	20	-	20	60	-	40	-	100
	11011707DS05	Lab-1 : Synthesis of Organic Compounds	2	-	4	-	-	20	-	-	30	-	25	50
	11011707IN01	On Job Training (OJT)- in Major Specific (for Honours Degree)	6	-	12	-	-	60	-	-	90	-	75	150
		OR												
	11011707RP01	Research Methodology in Major Specific course (For Honours with Research degree)	6	-	12	-	-	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)												
	11011708DS01	Process Development Technology	4	4	-	-	20	-	20	60	-	40	-	100
	11011708DS02	Advanced Analytical Techniques	4	4	-	-	20	-	20	60	-	40	-	100
	11011708DS03	Catalysis	4	4	-	-	20	-	20	60	-	40	-	100
	11011708DS04	Green Chemistry	4	4	-	-	20	-	20	60	-	40	-	100
	11011708IN01	On Job Training (OJT) - in Major Specific (for Honours Degree)	6	-	12	-	-	60	-	-	90	-	75	150
		OR												
	11011708RP01	Research Project in Major Specific course (For Honours with Research degree)	6	-	12	--	-	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.