



First Year Teaching Scheme

Admission Year 2026-27

Bachelor of Technology
Chemical Engineering

Faculty of Engineering & Technology

Parul University

Vadodara, Gujarat, India

Semester - 1

				Teaching Scheme			Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
				(Hours / Week)										
NCrF Credit Level	Subject Code	Subject Name	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int.+Ext.	Int.+Ext.	
4.5	03010301PC01	Introduction to Chemical Engineering	4	4	-	-	20	-	20	60	-	40	-	100
	03019101BS02	Linear Algebra and Calculus	4	4	-	-	20	-	20	60	-	40	-	100
	03010402ES01	Mechanics of solids	4	3	2	-	20	20	20	60	30	40	25	150
	03010501ES03	Fundamentals of Computer Science	3	3	-	-	20	-	20	60	-	40	-	100
	03010901ES02	Engineering graphics and design	4	2	4	-	20	20	20	60	30	40	25	150
	03010001HM01	Principles of Communication Skills	1	-	2	-	-	20	-	-	30	-	25	50
	03010001MC01	Student Induction Program with essence of Indian Knowledge System	0	12	-	-	-	-	50	-	-	20	-	50
	Total credits		20											

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical,

Theory Passing % : 40 Practical Passing % : 50

Semester – 2

NCRF Credit Level	Subject Code	Subject Name	Credit	Teaching Scheme			Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
				(Hours / Week)	Lect	Lab	Tut	T	P	CE	T	P	Int.+Ext.	
4.5	03010302PC01	Material & Energy Balance Computation	3	3	-	-	20	-	20	60	-	40	-	100
	03019102BS02	Differential Equations and Vector Calculus	4	4	-	-	20	-	20	60	-	40	-	100
	03019501BS01	Chemistry-I	4	3	2	-	20	20	20	60	30	40	25	150
	03010601ES01	Basic Electrical Engineering	4	3	2	-	20	20	20	60	30	40	25	150
	03010002HM01	Advanced Communication and Interpersonal Skills	2	1	2	-	40	20	-	60	30	40	25	150
	03010002MC01	Environmental Science	0	1	-	-	-	-	50	-	-		25	50
		Multidisciplinary Open Professional Electives Courses (MOPEC)												
	03M10002UE01	Privacy and Security in Online Social Media	3	3	-	-	-	-	40	60	-	40		100
	06M10102UE02	Indian Economy: Some Contemporary Perspectives	3	3	-	-	-	-	40	60	-	40		100
	03M10002UE02	Design, Technology and Innovation	3	3	-	-	-	-	40	60	-	40		100
	06M10502UE03	Intellectual Property Portfolio Management	3	3	-	-	-	-	40	60	-	40		100
	06M10102UE01	Principles of Management	3	3	-	-	-	-	40	60	-	40		100
	Total credits		20											

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical,

Theory Passing % : 40 Practical Passing % : 50