



First Year Teaching Scheme

Admission Year 2026-27

**Diploma Engineering
Mechanical 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.	
3.5	03061901PC01	Elements of Mechanical Engineering	4	3	2	0	20	50	20	60	-	40	20	150
	03069101BS01	Mathematics - I	4	3	0	1	20	-	20	60	-	40	-	100
	03069201BS01	Applied Physics	4	3	2	0	20	50	20	60	-	40	20	150
	03061901ES02	Engineering Graphics	3	1	4	0	20	100	20	60	-	40	40	200
	03061901ES03	Engineering Workshop	2	0	4	0	-	100	-	-	-	-	40	100
	03060001HM01	Fundamentals of Communication Skills	1	0	2	0	-	20	-	-	30	-	20	50
	03061501MC01	Environmental Science	0	1	0	0	20	-	20	-	-	16	-	40
	03061501UE01	Pollution Prevention and Control Techniques	3	3	0	0	20	-	20	60	-	40	-	100
	03061601UE01	Programming with Python	3	2	2	0	20	50	20	60	-	40	20	150
	03061601UE02	Internet of Things: Concepts and Application	3	2	2	0	20	50	20	60	-	40	20	150
	03061701UE01	Energy Conservation	3	3	0	0	20	-	20	60	-	40	-	100
	03061901UE01	Introduction to Robotics and Automation	3	3	0	0	20	-	20	60	-	40	-	100
	03062301UE01	Basic Aircraft Science	3	3	0	0	20	-	20	60	-	40	-	100
Total credits			21											

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

Theory Passing % : 40 Practical Passing % : 40

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.	
3.5	03010102PC01	Basic Engineering Thermodynamics	4	3	-	1	20	-	20	60	-	40	-	100
	03061902PC01	Engineering Drafting	3	2	2	0	20	50	20	60	-	40	20	150
	03061902PC02	Thermodynamics	2	2	0	0	20	-	20	60	-	40	-	100
	03069102BS01	Mathematics - II	4	3	0	1	20	-	20	60	-	40	-	100
	03069501BS01	Applied Chemistry	4	3	2	0	20	50	20	60	-	40	20	150
	03061702ES01	Fundamentals of Electrical Engineering	3	2	2	0	20	50	20	60	-	40	20	150
	03061601ES02	Foundation of IT and Web Design Application	2	0	4	0	-	100	-	-	-	-	40	100
	03060002HM01	Verbal Ability	2	1	2	0	40	20	-	60	30	40	20	150
	03060002MC01	Universal Human Values	0	1	0	0	20	-	20	-	-	16	-	40
	03061502UE01	Disaster Management	3	3	0	0	20	-	20	60	-	40	-	100
	03061602UE01	Digital Marketing	3	3	0	0	20	-	20	60	-	40	-	100
	03061702UE01	Introduction to Electrical Safety and Management	3	2	2	0	20	50	20	60	-	40	20	150
	03061802UE01	E Waste Management	3	3	0	0	20	-	20	60	-	40	-	100
	03061902UE01	Industrial Safety and Risk Management	3	3	0	0	20	-	20	60	-	40	-	100
	03061902UE02	Plant Layout and Fire Safety	3	3	0	0	20	-	20	60	-	40	-	100
	03061902EX01	Fundamentals of Welding Science and Technology	4-6	-	-	-	-	-	-	-	-	-	-	-
	03061902EX02	Engineering Drawing and Computer Graphics	4-6	-	-	-	-	-	-	-	-	-	-	-
	03061902EX03	Industrial Training	4-6	-	-	-	-	-	-	-	-	-	-	-
		Total credits	23											

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

Theory Passing % : 40 Practical Passing % : 40