



First Year Teaching Scheme

Admission Year 2026-27

**Bachelor of Technology
Mechanical Engineering**

Faculty of Engineering & Technology

Parul University

Vadodara, Gujarat, India

Semester - 1

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03010901PC01	Elements of Thermal and Fluid Systems	3	2	2	-	20	20	20	60	30	40	25	150
	Basic Science Course (BSC)-I (2025-26)	4	4	-	-	20	-	20	60	-	40	-	100
	Basic Science Course (BSC)-II (2025-26)	4	3	2	-	20	20	20	60	30	40	25	150
	Engineering Science Course (ESC)-I (2025-26)	4	3	2	-	20	20	20	60	30	40	25	150
	Engineering Science Course (ESC)-II (2025-26)	4	3	2	-	20	20	20	60	30	40	25	150
	Humanities and Social Science, including Management Course (HSMC)-I (2025-26)	1	-	2	-	-	20	-	-	30	-	25	50
	Mandatory Course (MNC)-I (2025-26)	0	12	-	-	-	-	50	-	-	20	-	50
	Total	20	15	10									800

Semester - 1: Basic Science Course (BSC)-I (2025-26)

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03019101BS02	Linear Algebra and Calculus	4	4	-	-	20	-	20	60	-	40	-	100

Semester - 1: Basic Science Course (BSC)-II (2025-26)

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03019201BS02	Physics of Wave and Motion	4	3	2	-	20	20	20	60	30	40	25	150

Semester - 1: Engineering Science Course (ESC)-I (2025-26)

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03010501ES01	Programming for Problem Solving	4	3	2	-	20	20	20	60	30	40	25	150

Semester - 1: Engineering Science Course (ESC)-II (2025-26)

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03010601ES02	Electrical and Electronics Engineering	4	3	2	-	20	20	20	60	30	40	25	150

Semester - 1: Humanities and Social Science, including Management Course (HSMC)-I (2025-26)

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03010001HM01	Principles of Communication Skills	1	-	2	-	-	20	-	-	30	-	25	50

Semester - 2: Basic Science Course (BSC)-III (2025-26)

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03019102BS02	Differential Equations and Vector Calculus	4	4	-	-	20	-	20	60	-	40	-	100

Semester - 2: Engineering Science Course (ESC)-III (2025-26)

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03010901ES02	Engineering Graphics and Design	4	2	4	-	20	20	20	60	30	40	25	150

Semester - 2: Engineering Science Course (ESC)-IV (2025-26)

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03010402ES01	Mechanics of Solids	4	3	2	-	20	20	20	60	30	40	25	150

Semester - 2: Humanities and Social Science, including Management Course (HSMC)-II (2025-26)

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03010002HM01	Advanced Communication and Interpersonal Skills	2	1	2	-	40	20	-	60	30	40	25	150

Semester - 2: Mandatory Course (MNC)-II (2025-26)

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03010002MC01	Environmental Science	0	1	-	-	-	-	50	-	-	20	-	50
	Integrated Well-being: Mind, Behavior and Digital Balance	0	1	-	-	-	-	50	-	-	20	-	50

Semester - 2: Multidisciplinary Open Professional Electives Course (MOPEC)-I (2025-26)

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03M10002UE01	Privacy and Security in Online Social Media	3	3	-	-	20	-	20	60	-	40	-	100
03M10002UE02	Design, Technology and Innovation	3	3	-	-	20	-	20	60	-	40	-	100
06M10102UE02	Indian Economy: Some Contemporary Perspectives	3	3	-	-	20	-	20	60	-	40	-	100
06M10202UE01	Principles of Management	3	3	-	-	20	-	20	60	-	40	-	100
06M10502UE03	Intellectual Property	3	3	-	-	20	-	20	60	-	40	-	100

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

Theory Passing % : 40 Practical Passing % : 50