



**First Year Teaching Scheme**

**Admission Year 2026-27**

**Bachelor of Technology  
Biomedical Engineering**

**Faculty of Engineering & Technology**

**Parul University**

**Vadodara, Gujarat, India**

**Semester – 1**

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	03011101P C01	Biology for Engineers	4	4	-	-	20	-	20	60	-	40	-	100
	03019101B S02	Linear Algebra and Calculus	4	4	-	-	20	-	20	60	-	40	-	100
	03019201B S01	Physics of Semiconductors	4	3	2	-	20	20	20	60	30	40	25	150
	03010501E S01	Programming for Problem Solving	4	3	2	-	20	20	20	60	30	40	25	150
	03010601E S02	Electrical and Electronics Engineering	4	3	2	-	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
		<b>Total credits</b>	<b>21</b>											<b>750</b>

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

Theory Passing % : 40 Practical Passing % : 50

**Semester – 2**

				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	03011102PC01	Human Anatomy and Physiology-I	4	3	2	-	20	20	20	60	30	40	25	150
	03019102BS02	Differential Equations and Vector Calculus	4	4	-	-	20	-	20	60	-	40	-	100
	03010901ES01	Elements of Mechanical Engineering	4	3	2	-	20	20	20	60	30	40	25	150
	03010901ES02	Engineering Graphics and Design	4	2	4	-	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	-	-	20	-	50
	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
<b>Total credits</b>			<b>21</b>											<b>850</b>

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

Theory Passing % : 40 Practical Passing % : 50