



**First Year Teaching Scheme**

**Admission Year 2026-27**

**Admission Year 202**

**Master of Technology  
Biomedical 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	03023101PC01	Biostatistics	3	3	-	-	20	-	20	60	-	50	-	100	
	03023101PC03	Advanced Biomedical Signal Processing	3	3	-	-	20	-	20	60	-	50	-	100	
	03023101PC04	Advanced Biomedical Signal Processing Laboratory	1	-	2	-	-	20	-	-	30	-	25	50	
	03023101PC05	Healthcare Management	3	3	-	-	20	-	20	60	-	50	-	100	
		Humanities and Social Science, including Management Course (HSMC)-I (2025-26)	4	-	-	-	-	-	-	-	-	-	-	-	
		Mandatory Course (MNC)-I (2025-26)	0	-	-	-	-	-	-	-	-	-	-	-	
		Professional Elective Course (PEC)-I (2025-26)	3	-	-	-	-	-	-	-	-	-	-	-	
		Professional Elective Course (PEC)-II (2025-26)	3	-	-	-	-	-	-	-	-	-	-	-	
		<b>Total credits</b>	<b>20</b>	<b>9</b>	<b>2</b>										<b>350</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

NCrF Credi t 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 .		Int.+Ext.
4.5	03023102PC02	LabVIEW Graphical Programming	2	-	4	-	-	50	-	-	50	-	50	100	
	03023102PC03	Advanced Biomedical Imaging	3	3	-	-	20	-	20	60	-	50	-	100	
	03023102PC04	Advanced Biomedical Imaging Laboratory	1	-	2	-	-	20	-	-	30	-	25	50	
	03023102PC05	Biofluid Mechanics in Cardiovascular Systems	3	3	-	-	20	-	20	60	-	50	-	100	
	03023102PC06	Biofluid Mechanics in Cardiovascular Systems Laboratory	1	-	2	-	-	20	-	-	30	-	25	50	
		Mandatory Course (MNC)-II (2025-26)	0	-	-	-	-	-	-	-	-	-	-	-	
		Multidisciplinary Open Professional Electives Course (MOPEC)-I (2025-26)	4	-	-	-	-	-	-	-	-	-	-	-	
		Professional Elective Course (PEC)-III (2025-26)	2	-	-	-	-	-	-	-	-	-	-	-	
		Professional Elective Course (PEC)-IV (2025-26)	3	-	-	-	-	-	-	-	-	-	-	-	
		Professional Elective Course LAB (PEC LAB)-III (2025-26)	1	-	-	-	-	-	-	-	-	-	-	-	
	<b>Total credits</b>	<b>20</b>	<b>6</b>	<b>8</b>										<b>400</b>	

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

Theory Passing % : 40 Practical Passing % : 50