



# **Second Year (Lateral Entry) Teaching Scheme**

**Admission Year 2026-27**

**Bachelor of Technology  
Electronics and Communication**

**Faculty of Engineering and Technology**

**Parul University**

**Vadodara, Gujarat, India**



Semester - 3

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
						T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03010703P C01	Network Theory	3	3	0	-	20	-	20	60	-	40	-	100
03010703P C02	Network Theory Lab	1	-	2	-	-	20	-	-	30	-	25	50
03010703P C03	Digital System Design	3	3	-	-	20	-	20	60	-	40	-	100
03010703P C04	Digital System Design Lab	1	-	2	-	-	20	-	-	30	-	25	50
03010703P C05	Analog Circuits	3	3	-	-	20	-	20	60	-	40	-	100
03010703P C06	Analog Circuits Lab	1	-	2	-	-	20	-	-	30	-	25	50
03010703P C07	Signal and System	2	2	-	-	20	-	20	60	-	40	-	100
03010703P C08	Signal and System Lab	1	-	2	-	-	-	-	-	30	-	25	50
	Basic Science Course (BSC)-IV (2025-26)	3	-	-	-	-	-	-	-	-	-	-	100
	Engineering Science Course (ESC)-IV (2025-26)	2	-	-	-	-	-	-	-	-	-	-	
	Engineering Science Course (ESC)-V (2025-26)	1	-	-	-	-	-	-	-	-	-	-	
	Humanities and Social Science, including Management Course (HSMC)-III (2025-26)	2	-	-	-	-	-	-	-	-	-	-	
	Mandatory Course (MNC)-III (2025-26)	0	-	-	-	-	-	-	-	-	-	-	
	<b>Total</b>	<b>23</b>	<b>11</b>	<b>8</b>									<b>600</b>

Semester - 3 : Basic Science Course (BSC)-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.	
03019103B S02	Probability and Statistics	3	3	-	-	20	-	20	60	-	40	-	100

Semester - 3 : 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.	
03010703E S05	Introduction to Python Programming	2	2	-	-	20	-	20	60	-	40	-	100

Semester - 3 : Engineering Science Course (ESC)-V (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.	
03010703E S06	Introduction to Python Programming Lab	1	-	2	-	-	-	-	-	30	-	25	50

Semester - 3 : Humanities and Social Science, including Management Course (HSMC)-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.	
03010003H M01	Functional Communication Skills	2	1	2	-	40	20	-	60	30	40	25	150

Semester - 4

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
						T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03010704P C01	Analog and Digital Communication	3	3	-	-	20	-	20	60	-	40	-	100
03010704P C02	Analog and Digital Communication Lab	1	-	2	-	-	20	0	-	30		25	50
03010704P C03	Microprocessor and Microcontroller	3	3	-	-	20	-	20	60	-	40	-	100
03010704P C04	Microprocessor and Microcontroller Lab	1	-	2	-	-	20	0	-	30		25	50
	Professional Elective Courses (PECs-I)	4	-	-	-	-	-	-	-	-	-	-	-
	Multidisciplinary Open Professional Electives Courses (MOPECs-II)	3	-	-	-	-	-	-	-	-	-	-	-
	Basic Science Courses (BSC-V )	3	-	-	-	-	-	-	-	-	-	-	-
	Humanities and Social Science, including Management Courses (HSMC-IV)	2	-	-	-	-	-	-	-	-	-	-	-
	Mandatory courses (MNC-III)	0	-	-	-	-	-	-	-	-	-	-	-
	<b>Total</b>	<b>20</b>	<b>6</b>	<b>4</b>									<b>300</b>

Semester - 4: Professional Elective Courses (PECs-I)

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
						T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
03010704P E01	Control System	3	3	-	-	20	-	20	60	-	40	-	100
03010704P E02	Control System Lab	1	-	2	-	-	20	0	-	30		25	50
03010704P E03	Sensor and Transducer	3	3	-	-	20	-	20	60	-	40	-	100
03010704P E04	Sensor and Transducer Lab	1	-	2	-	-	20	0	-	30		25	50
03010704P E05	Audio Video System	3	3	-	-	20	-	20	60	-	40	-	100
03010704P E06	Audio Video System Lab	1	-	2	-	-	20	0	-	30		25	50
03010704P E07	Biomedical Instrumentation	3	3	-	-	20	-	20	60	-	40	-	100
03010704P E08	Biomedical Instrumentation Lab	1	-	2	-	-	20	0	-	30		25	50

Semester - 4: Multidisciplinary Open Professional Electives Courses (MOPECs-II)

						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.	
15M10504 UE01	Introduction to Cognitive Psychology	3	3	-	-	-	-	40	60	-			100
15M10504 UE02	Human Behaviour	3	3	-	-	-	-	40	60	-			100
15M10504 UE03	Emotional Intelligence	3	3	-	-	-	-	40	60	-			100
19M10004 UE01	Psychiatry: An overview	3	3	-	-	-	-	40	60	-			100
19M10004 UE02	Philosophy and Critical Thinking	3	3	-	-	-	-	40	60	-			100

Semester – 4 Basic Science Courses (BSC-V )

						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.	
03019104B S02	Numerical Methods	3	3	0	0	20	-	20	60	-	40	-	100

Semester – 4 Humanities and Social Science, including Management Courses (HSMC-IV)

						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.	
03010002H M01	Engineering Ethics & Organizational Behavior	2	1	2	-	20	20	20	60	30	40	25	150

Semester – 4 Mandatory courses (MNC-III)

						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.	
03010004 MC01	NCC	0	1	-	-	-	-	50	-	-		25	50
03010004 MC02	NSS	0	1	-	-	-	-	50	-	-		25	50
03010004 MC03	Sports	0	1	-	-	-	-	50	-	-		25	50
03M10004 MC01	Yoga and Positive Psychology for Managing Career and Life	0	1	-	-	-	-	50	-	-		25	50
03M10004 MC02	The Science of Happiness and Wellbeing	0	1	-	-	-	-	50	-	-		25	50