



**Second Year (Lateral Entry) Teaching Scheme
Admission Year 2026-27**

**Bachelor of Technology (Lateral Entry)
Electrical Engineering**

Faculty of Engineering & Technology

Parul University

Vadodara, Gujarat, India

Semester 4													
		Credit	Teaching Scheme			Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
			(Hours / Week)			T	P	CE	T	P	Int.+Ext.	Int.+Ext.	
	Subject Name		Lect	Lab	Tut	T	P	CE	T	P	Int.+Ext.	Int.+Ext.	
Subject Code	Professional Core Courses (PCC-VII)												
03010604PC01	Power Electronics - I	3	3	-	-	20	-	20	60	-	40	-	100
03010604PC02	Power Electronics - I Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
Subject Code	Professional Core Courses (PCC-VIII)												
03010604PC03	Electrical Machines-II	3	3	-	-	20	-	20	60	-	40	-	100
03010604PC04	Electrical Machines-II Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
	Professional Elective Courses (PECs-I)												
Subject Code	Subject												-
03010604PE01	Electromagnetic	3	3	-	-	20	-	20	60	-	40	-	100
03010604PE02	Electromagnetic Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
03010604PE03	Analog Electronics Circuits	3	3	-	-	20	-	20	60	-	40	-	100
03010604PE04	Analog Electronics Circuits Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
03010604PE05	Solar Photovoltaic Systems	3	3	-	-	20	-	20	60	-	40	-	100
03010604PE06	Solar Photovoltaic Systems Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
03010604PE07	Signals & Systems	3	3	-	-	20	-	20	60	-	40	-	100
03010604PE08	Signals & Systems Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
UE2	Multidisciplinary Open Professional Electives Courses (MOPECs-II)												
15M10504UE01	Introduction to Cognitive Psychology	3	3	-	-	-	-	40	60	-	40	-	100
15M10504UE02	Human Behaviour	3	3	-	-	-	-	40	60	-	40	-	100
15M10504UE03	Emotional Intelligence	3	3	-	-	-	-	40	60	-	40	-	100
19M10004UE01	Psychiatry: An overview	3	3	-	-	-	-	40	60	-	40	-	100
19M10004UE02	Philosophy and Critical Thinking	3	3	-	-	-	-	40	60	-	40	-	100
	Basic Science Courses (BSC-V)												
03010604BS01	Power Plant Engineering	3	3	-	-	20	-	20	60	-	40	-	100
	Humanities and Social Science, including Management Courses (HSMC-IV)												
03010004HM01	Professional Soft Skills - I	1	-	2	-	40	20	-	60	30	40	25	150
MC-4	Mandatory courses (MNC-IV)												
03010004MC01	NCC	-	1	-	-	-	-	50	-	-	20	-	50
03010004MC02	NSS	-	1	-	-	-	-	50	-	-	20	-	50

