



Second Year (Lateral Entry) Teaching Scheme

Admission Year 2026-27

**Bachelor of Technology (Lateral Entry)
Computer Science and Engineering**

Faculty of Engineering & Technology

Parul University

Vadodara, Gujarat, India



Semester – 3

	Subject Code	Subject Name	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.	
												Int. + Ext.	Int. + Ext.	
		Professional Core Courses (PCC-II)												
	03010503P C01	Data Structure and Algorithms	3	3	-	-	20	-	20	60	-	40	-	100
	03010503P C02	Data Structure and Algorithms Laboratory	2	-	4	-	-	20	-	-	30	-	25	50
	03010503P C03	JAVA Programming	3	3	-	-	20	-	20	60	-	40	-	100
	03010503P C04	JAVA Programming Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
	03010503P C05	Operating System	3	3	-	-	20	-	20	60	-	40	-	100
		Basic Science Course (BSC)-IV (2025-26)	3											
4.5	03019103B S01	Discrete Mathematics	3	3	-	-	20	-	20	60	-	40	-	100
		Engineering Science Course (ESC)-VI (2025-26)	01-Feb											
	03010703E S03	Computer Organization and Microprocessor Architecture	2	2	-	-	-	-	-	60	-	40	-	100
	03010703E S04	Computer Organization and Microprocessor Architecture Lab	1	-	2	-	-	-	-	-	30	-	25	50
		Humanities and Social Science, including Management Course (HSMC)-III (2025-26)	2											
	03010003H M01	Functional Communication Skills	2	1	2	-	40	20	-	60	30	40	25	150
		Mandatory Course (MNC)-III (2025-26)	0											
	17013003M C01	Indian Constitution	0	1	-	-	-	-	50	-	-	20	-	50
		Total	20	16	10									850

Lect - Lecture, Tut - Tutorial, Lab - Lab, T - Theory, P - Practical, CE - CE, T - Theory, P - Practical
Theory Passing % : 40 Practical Passing % : 50



Semester – 4

Subject Code	Subject Name	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.	
	Professional Core Courses (PCC-VI)												
03010504PC03	Design and Analysis of Algorithm	3	3	-	-	20	-	20	60	-	40	-	100
03010504PC04	Design and Analysis of Algorithm Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
03010505PC01	Software Engineering	3	3	-	-	20	-	20	60	-	40	-	100
03010505PC02	Software Engineering Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
03010504PC01	Computer Network	3	3	-	-	20	-	20	60	-	40	-	100
03010504PC02	Computer Network Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
	Professional Elective Courses (PECs-I)												
	Data Science	3	3	-	-	20	-	20	60	-	40	-	100
	Data Science Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
03010804PE03	.Net Programming	3	3	-	-	20	-	20	60	-	40	-	100
03010804PE04	.Net Programming Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
	Backend Development using python Fast API	3	3	-	-	20	-	20	60	-	40	-	100
	Backend Development using python Fast API Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
03010504PE05	Azure Fundamentals	3	3	-	-	20	-	20	60	-	40	-	100
03010504PE06	Azure Fundamentals Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
	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-IV)												
03019104BS01	Probability, Statistics and Numerical Methods	3	4	-	-	20	-	20	60	-	40	-	100
	Humanities and Social Science, including Management Courses (HSMC)												
03010004HM01	Engineering Ethics & Organizational Behavior	2	1	2	-	40	20	-	60	30	40	25	150
	Mandatory courses (MNC-III)												
03010004MC01	NCC	0	1	-	-	-	-	50	-	-	-	25	50
03010004MC02	NSS	0	1	-	-	-	-	50	-	-	-	25	50
03010004MC03	Sports	0	1	-	-	-	-	50	-	-	-	25	50
03M10004MC01	Yoga and Positive Psychology for Managing Career and Life	0	1	-	-	-	-	50	-	-	-	25	50
03M10004MC02	The Science of Happiness and Wellbeing	0	1	-	-	-	-	50	-	-	-	25	50
	Vocational Training / Professional Experience/Courses- (Mandatory for Exit)												
	Minor/Honour Courses												
	Total credits	20	24										850

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Theory Passing % : 40 Practical Passing % : 50