



First Year Teaching Scheme

Admission Year 2026-27

**Master of Technology
Computer Science and Engineering**

Faculty of Engineering & Technology

Parul University

Vadodara, Gujarat, India

Semester - 1 : Humanities and Social Science, including Management Course (HSMC)-I (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.	
03020201H M01	Research Methodology & IPR	4	4	-	-	20	-	20	60	-	50	-	100

Semester - 1 : Mandatory Course (MNC)-I (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.	
03020001M C01	English for Research Paper Writing	0	2	-	-	-	-	50	-	-	25	-	50
03021601M C01	Disaster Management	0	2	-	-	-	-	50	-	-	25	-	50

Semester - 1 : Professional Elective Course (PEC)-I (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.	
03020201P E01	Distributed Systems	3	3	-	-	20	-	20	60	-	50	-	100
03020201P E03	High Performance Computing	3	3	-	-	20	-	20	60	-	50	-	100
03020201P E05	Principles of Information Security and Privacy	3	3	-	-	20	-	20	60	-	50	-	100

Semester - 1 : Professional Elective Course LAB (PEC LAB)-I (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.	
03020201P E02	Distributed Systems Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
03020201P E04	High Performance Computing Laboratory	1	-	2	-	-	20	-	-	30	-	25	50

Semester - 1 : Professional Elective Course LAB (PEC LAB)-I (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.	
03020201P E06	Principles of Information Security and Privacy Laboratory	1	-	2	-	-	20	-	-	30	-	25	50

Semester - 2 : Mandatory Course (MNC)-II (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.	
03020002M C01	Pedagogy Studies	0	2	-	-	-	-	50	-	-	25	-	50
03020002M C02	Personality Development through Life Enlightenment Skills	0	2	-	-	-	-	50	-	-	25	-	50

Semester - 2 : Mandatory Course (MNC)-II (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.	
03023302M C01	Indian Cyber Law and Ethics	0	2	-	-	-	-	50	-	-	25	-	50

Semester - 2 : Multidisciplinary Open Professional Electives Course (MOPEC)-I (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.	
03020202U E01	Augmented Reality and Virtual Reality	4	4	-	-	20	-	20	60	-	50	-	100
03020202U E02	Cyber Physical Systems	4	4	-	-	20	-	20	60	-	50	-	100
03020202U E03	Social Networking	4	4	-	-	20	-	20	60	-	50	-	100
03020502U E01	Business Analytics	4	4	-	-	20	-	20	60	-	50	-	100
03020602U E01	Industrial Safety	4	4	-	-	20	-	20	60	-	50	-	100
03020702U E01	IOT and Smart Cities	4	4	-	-	20	-	20	60	-	50	-	100
03022002U E01	Waste to Energy	4	4	-	-	20	-	20	60	-	50	-	100

Semester - 2 : Professional Elective Course (PEC)-II (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.	
03020202P E01	Deep Learning	3	3	-	-	20	-	20	60	-	50	-	100
03020202P E03	Malware Analysis and Mitigation	3	3	-	-	20	-	20	60	-	50	-	100
03020202P E05	Secure Software Engineering	3	3	-	-	20	-	20	60	-	50	-	100

Semester - 2 : Professional Elective Course (PEC)-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.	
03020202P E07	Digital Forensics	3	3	-	-	20	-	20	60	-	50	-	100
03020202P E09	Data Science for Software Engineering	3	3	-	-	20	-	20	60	-	50	-	100
03020202P E11	Advance Compiler Design	3	3	-	-	20	-	20	60	-	50	-	100

Semester - 2 : Professional Elective Course LAB (PEC LAB)-II (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.	
03020202P E02	Deep Learning Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
03020202P E04	Malware Analysis and Mitigation Laboratory	1	-	2	-	-	20	-	-	30	-	25	50

Semester - 2 : Professional Elective Course LAB (PEC LAB)-II (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.	
03020202P E06	Secure Software Engineering Laboratory	1	-	2	-	-	20	-	-	30	-	25	50

Semester - 2 : Professional Elective Course LAB (PEC LAB)-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.	
03020202P E08	Digital Forensics Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
03020202P E10	Data Science for Software Engineering Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
03020202P E12	Advance Compiler Design Laboratory	1	-	2	-	-	20	-	-	30	-	25	50