



First Year Teaching Scheme

Admission Year 2026-27

Bachelor of Technology
CSE (Artificial Intelligence and Machine Learning)

Faculty of Engineering & Technology

Parul University

Vadodara, Gujarat, India

Semester - 1

						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.	
03010501PC01	Web Designing	4	3	2	-	20	20	20	60	30	40	25	150
	Basic Science Course (BSC)-I (2026-27)	4	4	-	-	20	-	20	60	-	40	-	100
	Basic Science Course (BSC)-II (2026-27)	4	3	2	-	20	20	20	60	30	40	25	150
	Engineering Science Course (ESC)-I (2026-27)	4	3	2	-	20	20	20	60	30	40	25	150
	Engineering Science Course (ESC)-II (2026-27)	3	3	-	-	20	-	20	60	-	40	-	100
	Humanities and Social Science, including Management Course (HSMC)-I (2026-27)	1	-	2	-	-	20	-	-	30	-	25	50
	Mandatory Course (MNC)-I (2026-27)	0	12	-	-	-	-	50	-	-	20	-	50
	Total	20	16	8									750

Semester - 1 : Basic Science Course (BSC)-I (2026-27)

						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.	
03019101BS01	Calculus	4	4	-	-	20	-	20	60	-	40	-	100

Semester - 1 : Basic Science Course (BSC)-II (2026-27)

						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.	
03019201BS01	Physics for Semiconductors	4	3	2	-	20	20	20	60	30	40	25	150

Semester - 1 : Engineering Science Course (ESC)-I (2026-27)

						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.	
03010501ES01	Programming for Problem Solving	4	3	2	-	20	20	20	60	30	40	25	150

Semester - 1 : Engineering Science Course (ESC)-II (2026-27)

						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.	
03010501ES05	Prompt Engineering	3	3	-	-	20	-	20	60	-	40	-	100

Semester - 1 : Humanities and Social Science, including Management Course (HSMC)-I (2026-27)

						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.	
03010001HM01	Principles of Communication Skills	1	-	2	-	-	20	-	-	30	-	25	50

Semester - 1 : Mandatory Course (MNC)-I (2026-27)

						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.	
03010001M C01	Student Induction Program with Essence of Indian Knowledge System	0	12	-	-	-	-	50	-	-	20	-	50

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

Semester - 2

						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.	
	Operating System	4	3	2	-	20	20	20	60	30	40	25	150
	Basic Science Course (BSC)-III (2026-27)	4	4	-	-	20	-	20	60	-	40	-	100
	Engineering Science Course (ESC)-III (2026-27)	4	3	2	-	20	20	20	60	30	40	25	150
	Engineering Science Course (ESC)-IV (2026-27)	3	2	2	-	20	20	20	60	30	40	25	150
	Engineering Science Course (ESC)-V (2026-27)	1	-	2	-	-	20	-	-	30	-	25	50
	Humanities and Social Science, including Management Course (HSMC)-II (2026-27)	2	1	2	-	40	20	-	60	30	40	25	150
	Mandatory Course (MNC)-II (2026-27)	0	1	-	-	-	-	50	-	-	20	-	50
	Multidisciplinary Open Professional Electives Course (MOPEC)-I (2026-27)	3	3	-	-	20	-	20	60	-	40	-	100
	Total	21	17	10									900

Semester - 2 : Basic Science Course (BSC)-III (2026-27)

						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.	
03019102B S01	Linear Algebra	4	4	-	-	20	-	20	60	-	40	-	100

Semester - 2 : Engineering Science Course (ESC)-III (2026-27)

						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.	
03010601ES02	Electrical and Electronics Engineering	4	3	2	-	20	20	20	60	30	40	25	150

Semester - 2 : Engineering Science Course (ESC)-IV (2026-27)

						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.	
03010502ES01	Objected Oriented Programming with Java	3	2	2	-	20	20	20	60	30	40	25	150

Semester - 2 : Engineering Science Course (ESC)-V (2026-27)

						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.	
03010702ES01	ICT Workshop	1	-	2	-	-	20	-	-	30	-	25	50

Semester - 2 : Humanities and Social Science, including Management Course (HSMC)-II (2026-27)

						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.	
03010002HM01	Advanced Communication and Interpersonal Skills	2	1	2	-	40	20	-	60	30	40	25	150

Semester - 2 : Mandatory Course (MNC)-II (2026-27)

						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.	
03010002M C01	Environmental Science	0	1	-	-	-	-	50	-	-	20	-	50
	Integrated Well-being: Mind, Behavior and Digital Balance	0	1	-	-	-	-	50	-	-	20	-	50

Semester - 2 : Multidisciplinary Open Professional Electives Course (MOPEC)-I (2026-27)

						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.	
03M10002U E01	Privacy and Security in Online Social Media	3	3	-	-	20	-	20	60	-	40	-	100
03M10002U E02	Design, Technology and Innovation	3	3	-	-	20	-	20	60	-	40	-	100
06M10102U E02	Indian Economy: Some Contemporary Perspectives	3	3	-	-	20	-	20	60	-	40	-	100
06M10202U E01	Principles of Management	3	3	-	-	20	-	20	60	-	40	-	100
06M10502U E03	Intellectual Property Portfolio Management	3	3	-	-	20	-	20	60	-	40	-	100

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Theory Passing % : 40 Practical Passing % : 50