



**First Year Teaching Scheme**

**Admission Year 2026-27**

**Bachelor of Technology**

**Artificial Intelligence and Data Science (Quantum Technologies)**

**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.	
03010501P C01	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
	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	2	2	-	20	20	20	60	30	40	25	150
	Engineering Science Course (ESC)-III (2026-27)	4	3	2	-	20	20	20	60	30	40	25	150
	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
	<b>Total</b>	<b>20</b>	<b>15</b>	<b>10</b>									<b>800</b>

## 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.	
03019101B S02	Mathematics for Intelligent Systems 1	4	4	-	-	20	-	20	60	-	40	-	100

**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.	
03010601E S02	Electrical and Electronics Engineering	4	3	2	-	20	20	20	60	30	40	25	150
03019201B S01	Physics of Semiconductors	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.	
03012401E S03	Prompt Engineering	3	2	2	-	20	20	20	60	30	40	25	150

**Semester - 1 : 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.	
03010501E S01	Programming for Problem Solving	4	3	2	-	20	20	20	60	30	40	25	150

**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.	
03010001MC01	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.	
03012402P C02	Operating System	4	3	2	0	20	20	20	60	30	40	25	150
	Basic Science Course (BSC)-II (2026-27)	4	4	-	-	20	-	20	60	-	40	-	100
	Basic Science Course (BSC)-III (2026-27)	4	3	2	-	20	20	20	60	30	40	25	150
	Engineering Science Course (ESC)-IV (2026-27)	1	-	2	-	-	20	-	-	30	-	25	50
	Engineering Science Course (ESC)-V (2026-27)	3	2	2	-	20	20	20	60	30	40	25	150
	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
	<b>Total</b>	<b>21</b>	<b>18</b>	<b>10</b>	<b>0</b>								<b>900</b>

**Semester - 2 : 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.	
03019102B S02	Mathematics for Intelligent Systems 2	4	4	-	-	20	-	20	60	-	40	-	100

**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.	
03010601E S02	Electrical and Electronics Engineering	4	3	2	-	20	20	20	60	30	40	25	150
03019201B S01	Physics of Semiconductors	4	3	2	-	20	20	20	60	30	40	25	150

**Semester - 2 : CSE-AI\_2ND SEM\_MOPECs**

						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.	
06M10202U E01	Principles of Management	3	3	-	-	20	-	20	60	-	40	-	100
06M10502U E03	Intellectual Property	3	3	-	-	20	-	20	60	-	40	-	100
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

**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.	
03010702E S01	ICT Workshop	1	-	2	-	-	20	-	-	30	-	25	50

**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.	
03010502E S02	Objected Oriented Programming with JAVA	3	2	2	-	20	20	20	60	30	40	25	150

**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.	
03010002H M01	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 C02	Integrated Well-being: Mind, Behavior and Digital Balance	0	1	-	-	-	-	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