



**First Year Teaching Scheme**

**Admission Year 2026-27**

**Master of Technology  
Artificial Intelligence and Data Science**

**Faculty of Engineering & Technology**

**Parul University**

**Vadodara, Gujarat, India**

<b>Semester 1</b>					
<b>Sr. No.</b>	<b>Name of the Subject</b>	<b>Credit</b>	<b>LECT</b>	<b>LAB</b>	<b>TUTO</b>
1	Mathematical Foundations for Data Science	4	3	2	0
2	Advanced Data Structures & Algorithm	4	3	2	0
3	Machine Learning	4	3	2	0
4	PEC-1	4	3	2	0
5	Research Methodology & IPR	4	4	0	0
6	Mandatory courses (Audit -1)	0	2	0	0
	<b>Total</b>	<b>20</b>	<b>18</b>	<b>8</b>	<b>0</b>
<b>Semester 1 MNC – 1</b>					
<b>Sr. No.</b>	<b>Name of the Subject</b>	<b>Credit</b>	<b>LECT</b>	<b>LAB</b>	<b>TUTO</b>
1	English for Research Paper Writing	0	2	0	0
2	Disaster Management	0	2	0	0
<b>Semester 1 PEC 01</b>					
<b>Sr. No.</b>	<b>Name of the Subject</b>	<b>Credit</b>	<b>LECT</b>	<b>LAB</b>	<b>TUTO</b>
1	Big Data Framework for Data Science	4	3	2	0
2	Distributed System	4	3	2	0
3	Artificial & Computational Intelligence	4	3	2	0
<b>Semester 2</b>					
<b>Sr. No.</b>	<b>Name of the Subject</b>	<b>Credit</b>	<b>LECT</b>	<b>LAB</b>	<b>TUTO</b>
7	Data Analytics and Data Visualization	4	3	2	0
8	Deep Learnin	4	3	2	0
9	PEC-2	4	3	2	0
10	PEC-3	4	3	2	0
11	Mandatory courses (Audit -2)	0	2	0	0
12	MOPECs	4	3	2	0

	<b>Total</b>	<b>20</b>	<b>17</b>	<b>10</b>	<b>0</b>
<b>Semester 2 MNC - 2(Audit - 2)</b>					
<b>Sr. No.</b>	<b>Name of the Subject</b>	<b>Credit</b>	<b>LECT</b>	<b>LAB</b>	<b>TUTO</b>
1	Indian Cyber Law and Ethics	0	2	0	0
2	Pedagogy Studies	0	2	0	0
3	Stress Management by Yoga	0	2	0	0
4	Personality Development through Life Enlightenment Skills	0	2	0	0
<b>Semester 2 UE – 1</b>					
<b>Sr. No.</b>	<b>Name of the Subject</b>	<b>Credit</b>	<b>LECT</b>	<b>LAB</b>	<b>TUTO</b>
1	Privacy and Security in Online Social Media	4	3	2	0
2	Indian Economy: Some Contemporary Perspectives	4	3	2	0
3	Design, Technology and Innovation	4	3	2	0
4	Intellectual Property Portfolio Management	4	3	2	0
<b>Semester 2 PEC 02</b>					
<b>Sr. No.</b>	<b>Name of the Subject</b>	<b>Credit</b>	<b>LECT</b>	<b>LAB</b>	<b>TUTO</b>
1	High Performance Computing	4	3	2	0
2	Quantum Computing	4	3	2	0
3	Data Science in Bioinformatics	4	3	2	0
<b>Semester 2 PEC 03</b>					
<b>Sr. No.</b>	<b>Name of the Subject</b>	<b>Credit</b>	<b>LECT</b>	<b>LAB</b>	<b>TUTO</b>
1	Natural Language Processin	4	3	2	0
2	Blockchain Technologies	4	3	2	0
3	Cloud Computing for Data Science	4	3	2	0

