



**First Year Teaching Scheme**

**Admission Year 2026-27**

**Bachelor of Technology  
CSE with Quantum Computing in AI**

**Faculty of Engineering & Technology**

**Parul University**

**Vadodara, Gujarat, India**



Semester - 1

|               |  |           |           |           |     | Internal Marks |    |    | External Marks |    | Passing Marks<br>(Theory + CE) | Passing Marks<br>(Practical) | Total<br>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<br>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<br>(Theory + CE) | Passing Marks<br>(Practical) | Total<br>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<br>(Theory + CE) | Passing Marks<br>(Practical) | Total<br>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<br>(Theory + CE) | Passing Marks<br>(Practical) | Total<br>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<br>(Theory + CE) | Passing Marks<br>(Practical) | Total<br>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<br>(Theory + CE) | Passing Marks<br>(Practical) | Total<br>Marks |
|---------------|------------------------------------|--------|------|-----|-----|----------------|----|----|----------------|----|--------------------------------|------------------------------|----------------|
| Code          | Subject                            | Credit | Lect | Lab | Tut | T              | P  | CE | T              | P  | Int. + Ext.                    | Int. + Ext.                  |                |
| 03010001H M01 | Principles of Communication Skills | 1      | -    | 2   | -   | -              | 20 | -  | -              | 30 | -                              | 25                           | 50             |

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

|               |   |        |      |     |     | Internal Marks |   |    | External Marks |   | Passing Marks<br>(Theory + CE) | Passing Marks<br>(Practical) | Total<br>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<br>(Theory + CE) | Passing Marks<br>(Practical) | Total<br>Marks |
|---------------|---|-----------|-----------|-----------|----------|----------------|----|----|----------------|----|--------------------------------|------------------------------|----------------|
| Code          | Subject   | Credit    | Lect      | Lab       | Tut      | T              | P  | CE | T              | P  | Int. + Ext.                    | Int. + Ext.                  |                |
| 03012402P C02 | Operating System  | 4         | 3         | 2         | -        | 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<br>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<br>Course (MOPEC)-I (2026-27)       | 3         | 3         | -         | -        | 20             | -  | 20 | 60             | -  | 40                             | -                            | 100            |
|               | <b>Total</b>  | <b>21</b> | <b>17</b> | <b>10</b> | <b>-</b> |                |    |    |                |    |                                |                              | <b>900</b>     |

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

|               |                                       |        |      |     |     | Internal Marks |   |    | External Marks |   | Passing Marks<br>(Theory + CE) | Passing Marks<br>(Practical) | Total<br>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<br>(Theory + CE) | Passing Marks<br>(Practical) | Total<br>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 : Multidisciplinary Open Professional Electives Course (MOPEC)-I (2026-27)

|               |  |        |      |     |     | Internal Marks |   |    | External Marks |   | Passing Marks<br>(Theory + CE) | Passing Marks<br>(Practical) | Total<br>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<br>(Theory + CE) | Passing Marks<br>(Practical) | Total<br>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<br>(Theory + CE) | Passing Marks<br>(Practical) | Total<br>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<br>(Theory + CE) | Passing Marks<br>(Practical) | Total<br>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<br>(Theory + CE) | Passing Marks<br>(Practical) | Total<br>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**