



First Year Teaching Scheme

Admission Year 2026-27

**Diploma Engineering
Electrical Engineering**

Faculty of Engineering & Technology-Diploma Studies

Parul University

Vadodara, Gujarat, India

Semester – 1

| | | | | Teaching Scheme | | | Internal Marks | | | External Marks | | Passing Marks (Theory + CE) | Passing Marks (Practical) | Total Marks |
|-------------------|----------------------|--|--------|-----------------|-----|-----|----------------|-----|----|----------------|----|-----------------------------|---------------------------|-------------|
| | | | | (Hours / Week) | | | | | | | | | | |
| NCrF Credit Level | Subject Code | Subject Name | Credit | Lect | Lab | Tut | T | P | CE | T | P | Int.+Ext. | Int.+Ext. | |
| 3.5 | 03061701PC01 | D.C Circuit | 5 | 3 | 2 | 1 | 20 | 50 | 20 | 60 | - | 40 | 20 | 150 |
| | 03069101BS01 | Mathematics - I | 4 | 3 | 0 | 1 | 20 | - | 20 | 60 | - | 40 | - | 100 |
| | 03069501BS01 | Applied Chemistry | 4 | 3 | 2 | 0 | 20 | 50 | 20 | 60 | - | 40 | 20 | 150 |
| | 03061901ES01 | Basic Engineering Drawing | 2 | 1 | 2 | 0 | 20 | 50 | 20 | 60 | - | 40 | 20 | 150 |
| | 03061601ES02 | Foundation of IT and Web Design Application | 2 | 0 | 4 | 0 | - | 100 | - | - | - | - | 40 | 100 |
| | 03060001HM01 | Fundamentals of Communication Skills | 1 | 0 | 2 | 0 | - | 20 | - | - | 30 | - | 20 | 50 |
| | 03061501MC01 | Environmental Science | 0 | 1 | 0 | 0 | 20 | - | 20 | - | - | 16 | - | 40 |
| | 03061501UE01 | Pollution Prevention and Control Techniques | 3 | 3 | 0 | 0 | 20 | - | 20 | 60 | - | 40 | - | 100 |
| | 03061601UE01 | Programming with Python | 3 | 2 | 2 | 0 | 20 | 50 | 20 | 60 | - | 40 | 20 | 150 |
| | 03061601UE02 | Internet of Things: Concepts and Application | 3 | 2 | 2 | 0 | 20 | 50 | 20 | 60 | - | 40 | 20 | 150 |
| | 03061701UE01 | Energy Conservation | 3 | 3 | 0 | 0 | 20 | - | 20 | 60 | - | 40 | - | 100 |
| | 03061901UE01 | Introduction to Robotics and Automation | 3 | 3 | 0 | 0 | 20 | - | 20 | 60 | - | 40 | - | 100 |
| | 03062301UE01 | Basic Aircraft Science | 3 | 3 | 0 | 0 | 20 | - | 20 | 60 | - | 40 | - | 100 |
| | Total credits | | | 21 | | | | | | | | | | |

Lect - Lecture, Tut - Tutorial, Lab - Lab, T - Theory, P - Practical, CE - CE, T - Theory, P - Practical

Theory Passing % : 40 Practical Passing % : 40

Semester – 2

| | | | | Teaching Scheme | | | Internal Marks | | | External Marks | | Passing Marks (Theory + CE) | Passing Marks (Practical) | Total Marks | |
|----------------------|--------------|--|-----------|-----------------|-----|-----|----------------|-----|----|----------------|----|-----------------------------|---------------------------|-------------|---|
| | | | | (Hours / Week) | | | | | | | | | | | |
| NCrF Credit Level | Subject Code | Subject Name | Credit | Lect | Lab | Tut | T | P | CE | T | P | Int.+Ext. | Int.+Ext. | | |
| 3.5 | 03061702PC01 | A.C Circuit | 4 | 3 | 2 | 0 | 20 | 50 | 20 | 60 | - | 40 | 20 | 150 | |
| | 03069102BS01 | Mathematics - II | 4 | 3 | 0 | 1 | 20 | - | 20 | 60 | - | 40 | - | 100 | |
| | 03069202BS01 | Basic Physics | 4 | 3 | 2 | 0 | 20 | 50 | 20 | 60 | - | 40 | 20 | 150 | |
| | 03061801ES01 | Basic Electronics | 4 | 3 | 2 | 0 | 20 | 50 | 20 | 60 | - | 40 | 20 | 150 | |
| | 03061702ES02 | Electrical and Electronics Workshop | 2 | 0 | 4 | 0 | - | 100 | - | - | - | - | 40 | 100 | |
| | 03060002HM01 | Verbal Ability | 2 | 1 | 2 | 0 | 40 | 20 | - | 60 | 30 | 40 | 20 | 150 | |
| | 03060002MC01 | Universal Human Values | 0 | 1 | 0 | 0 | 20 | - | 20 | - | - | 16 | - | 40 | |
| | 03061502UE01 | Disaster Management | 3 | 3 | 0 | 0 | 20 | - | 20 | 60 | - | 40 | - | 100 | |
| | 03061602UE01 | Digital Marketing | 3 | 3 | 0 | 0 | 20 | - | 20 | 60 | - | 40 | - | 100 | |
| | 03061702UE01 | Introduction to Electrical Safety and Management | 3 | 2 | 2 | 0 | 20 | 50 | 20 | 60 | - | 40 | 20 | 150 | |
| | 03061802UE01 | E Waste Management | 3 | 3 | 0 | 0 | 20 | - | 20 | 60 | - | 40 | - | 100 | |
| | 03061902UE01 | Industrial Safety and Risk Management | 3 | 3 | 0 | 0 | 20 | - | 20 | 60 | - | 40 | - | 100 | |
| | 03061902UE02 | Plant Layout and Fire Safety | 3 | 3 | 0 | 0 | 20 | - | 20 | 60 | - | 40 | - | 100 | |
| | 03061702EX01 | Hand Soldering Technician | 4-6 | - | - | - | - | - | - | - | - | - | - | - | - |
| | 03061702EX02 | Solar Panel Installation Technician | 4-6 | - | - | - | - | - | - | - | - | - | - | - | - |
| | 03061702EX03 | Industrial Training | 4-6 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total credits | | | 23 | | | | | | | | | | | | |

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical

Theory Passing % : 40 Practical Passing % : 40