



योग: कर्मसु कौशलम्

**Darshan**  
UNIVERSITY

**DIPLOMA**  
ELECTRICAL ENGINEERING



A  
**technical**  
**Diploma**  
program

that electrify the future with  
**Industry-oriented** education

In the field of **Electrical Engineering**

# Electrical Engineering

Electrical Engineering is a basic branch of engineering that deals with design, installation, maintenance and production of electrical equipment, renewable energy system, automation system, etc. Future of electrical engineers are set to be highly shout with development of solar power system and electric vehicle technology. Electrical engineers have variety of career options like Government Organizations (PGVCL, Railway, Power Grid, NTPC, etc.), MNCs (ABB, Schneider, Siemens, L&T, etc.) and Start-ups (Solar, Electrical Contractor/Consultant, Energy Auditor, etc.).

**Electrical is a basic branch of Engineering and Electricity is now basic need of our lives.**



## Diploma Engineering in Electrical @ DU

- Highly qualified, well experienced, industry linked, dedicated faculties.
- A strong theoretical foundation for crystal clear fundamentals.
- Focus on project-based learning with applications of technologies in real life.
- Exposure to cutting-edge technologies through seminars and workshops.
- NABL accredited and industrial oriented laboratories.
- An interactive relationship is maintained between staff and student to develop sound foundation.

## Syllabus

### Semester-1

- Mathematics – I
- Electrical Engineering Workshop
- Engineering Drawing
- English
- Environment Conservation & Disaster Management
- Induction Program

### Semester-2

- Engineering Physics
- Mathematics – II
- Office Automation Tools
- Fundamental of Mechanical Engineering
- D. C. Circuits
- Electricity Bill Analysis

### Semester-3

- A.C. Circuits
- Basic Electronics
- Electrical Instrumentation
- Electrical Machines - I
- Generation of Electrical Power

### Semester-4

- Computer Aided Electrical Drawing
- Digital Electronics & Components
- Electrical Energy Utilization
- Electrical Machines - II
- Electrical Power Transmission & Distribution

### Semester-5

- Industrial Electronics
- Switchgear and Protection
- Electric Vehicle Technology
- Electrical Energy Audit
- Financial Management
- Career Orientation
- Project - I

### Semester-6

- Basic of Microprocessor and Microcontroller
- Testing of Induction Motors as per Indian Standard
- Industrial Automation & Control
- Solar Energy System
- Building Electrification
- Project - II





## Skill Development Activities



Solar PV Installation



Energy Audit Demonstration



Motor Testing as per IS



Arduino Training



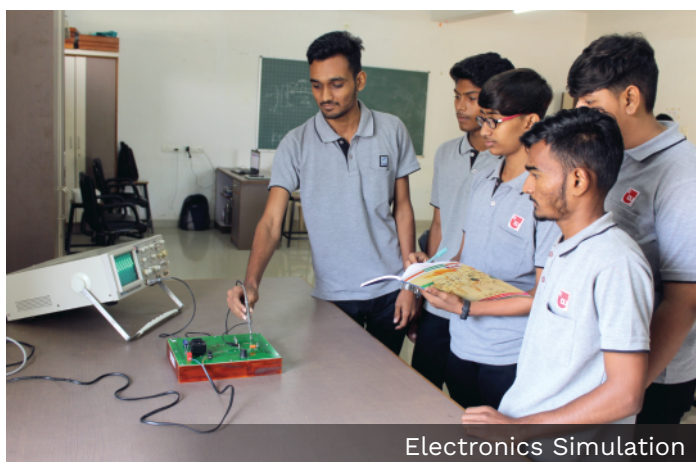
Industrial Automation



Industrial Protection



Electrical Measurement



Electronics Simulation



## Career Opportunities after Diploma Electrical

There are three options after completion of diploma engineering. (1) Diploma to Degree (2) Technical Job (3) Technical Business.

### Diploma to Degree (D2D)

D2D admission is purely depends upon the result of diploma engineering. Darshan University is well known to get 1st rank in result in all over Gujarat.

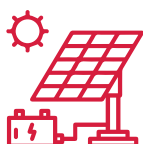
**Students of Darshan University easily got admission in top degree engineering colleges of Gujarat like Nirma, BVM, etc.**



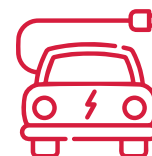
**Makadia Abhi**  
Gold Medalist in all over Gujarat

### Technical Job / Business

Technical skill is the basic requirement to achieve success in technical job / business. Department of Electrical Engineering at Darshan University is well known for its research level laboratories and consultancy cell. **Students of Darshan University easily got placed in well known companies like ABB, Adani Solar, Jyoti CNC, Synergy transformer, etc. and also successful in business of solar, automation, electrical consultancy, etc.**



There are huge shortage of Diploma Electrical Engineer in last two years due to development of Solar and Electric Vehicle technology.



## Electrical Consultancy Cell @ DU

### Motor & Pump Testing Laboratory (NABL Approved & BIS Recognized)

Darshan University is the first and only university in India having NABL approved and BIS recognized motor and pump testing laboratory. The laboratory provides NABL and BIS testing of induction motor, submersible pump, self priming pump, monoset pump and centrifugal pump.

**500+**

Motor/Pump Testing  
Projects Completed

**130+**

Energy Audit  
Projects Completed

### Energy Management Cell

Energy Management Cell provides the most advanced and best in energy conservation solutions with the thrust in the key areas of energy audit, power quality audit, electrical safety audit, thermography, electrical earthing system, etc.



## Government Approvals



**Darshan**  
UNIVERSITY

सोग: कर्मसु कौशलम्

### University Campus

📍 Rajkot-Morbi Highway,  
Rajkot – 363650.  
☎ 9727747310 / 11  
🌐 www.darshan.ac.in

### Counseling Centre

📍 401, Lotus Arcade, 8 - Royal Park,  
Between KKV Circle & Indira Circle  
150 Ft. Ring Road, Rajkot - 360005.  
☎ 9712260060, 9898709191