



योग: कर्मसु कौशलम्

Darshan
UNIVERSITY

B.Tech.
ELECTRICAL ENGINEERING



A
technical
under-graduate
program
that focuses on
Industry-oriented education
to broaden the **technical dimension**

B.Tech Electrical Engineering

Electrical Engineering Department (EED), at University is involved in providing quality education at both Postgraduate and Undergraduate levels. Department aims to produce engineers who are critical, original, and independent thinkers along with the strong foundation in contemporary electrical engineering, basic sciences, mathematics, computing, and communication. Department also believes in values, attitudes, diversity of opinion, ethics and vision that will prepare student for lifetimes of success, continued learning and leadership in their chosen careers.

Admissions: 30 Seats, Tuition Fees Rs. 40,500* Per Semester. State Quota Seats shall be filled by ACPC (www.jacpcldce.ac.in) and Management Quota seats shall be filled by the university as per the inter-se-merit list.

Key Highlights

- Department has **NABL accreditation for Pump-Motor Testing and Calibration** approved by Board of Quality Council of India.
- Department has **autonomously installed 50 kWp PV Solar Power Plant** (Rooftop) at institute campus.
- Department is also appointed as **Baseline Energy Data Monitoring Assistance Japan International Cooperation Agency - JICA (Government of Japan)**.
- Department has key licences like
 - **Accredited Energy Auditor (AEA-0287)** approved by BEE (Bureau of Energy Efficiency), Ministry of Power, Government of India.
 - **Energy Manager** approved by MNRE (Ministry of New and Renewable Energy), Government of India.
 - **Energy Auditor** approved by MNRE (Ministry of New and Renewable Energy), Government of India.
 - **Training provider** for skill development programs approved by NISE (National Institute of Solar Energy), MNRE (Ministry of New and Renewable Energy).
 - **Energy Audit Consultant** by approving organization - GEDA (Gujarat Energy Development Agency).
 - **NGOs / Non-Profit Organizations** approved by MNRE (Ministry of New and Renewable Energy), Government of India.
 - **Training provider** SCGJ (Skill Council for Green Jobs) - National Skill Development mission.

Consultancy Cell – Energy Management Cell

In this cost competitive globe for energy conservation in industry and commerce, We are an independent service provider that offers the most advanced and best in Energy Conservation Solutions with the thrust in the key areas of Energy Audit Services, Power Quality Audit Services, Electrical Safety Audit Services, Thermography, Electrical Earthing System Design and Measurement, Solar Power Plant EPC and Other Consultancy Services.

NABL Approved & BIS recognized Motor & Pump Testing Laboratory

Darshan Electrical Testing and Research Laboratory (DETRL) is a defined part of the Electrical Engineering Department (EED) at Darshan University. Darshan University is the only one in entire India to have such facilities in university campus. The Laboratory provides all industrial testing, research and development cutting edge technology solutions for Centrifugal Pumps, Induction Motors, Self-priming Pumps and Submersible Pumps.

Syllabus

Semester-1

- Basics of Electrical Engineering
- Mathematics – I
- Computer Aided Engineering Graphics
- Basics of Environmental Studies
- Programming using C
- Office Automation Tools

Semester-2

- Basics of Electronics
- Engineering Science for Electrical Engineering
- Mathematics – II
- Basics of Mechanical Engineering
- Indian Constitution
- Communicative English

Semester-3

- Applied Mathematics for Electrical
- Network Analysis and Synthesis
- Electrical Measuring Instruments
- Analog and Digital Electronics
- Basic Electrical Power Generation Techniques

Semester-4

- Electrical Machine-I
- Power System-I
- Power Electronics-I
- Industrial Electrical Systems
- Control System Engineering

Semester-5

- Electrical Machine-II
- Power System-II
- Power Electronics-II
- Microcontroller and Interfacing
- High Voltage Engineering

Semester-6

- Electrical Drives
- Electrical Switchgear and Protection
- AC Machine Design
- Elective-I
- Elective-II

Semester-7

- Testing and Commissioning of Electrical Equipments
- Interconnected Power System
- Open Elective-II
- Elective-III
- Elective-IV
- Industrial Internship

Electives

- Industrial Automation & Control, IoT, Advanced Electrical Design, Solar Energy, Electrical Energy Conservation and Audit, Power Quality & FACTS, HVDC Transmission System, Advanced Machine Design, Advanced Power System Design, Advanced Power Electronics Design, Electric and Hybrid Vehicle, Smart Grid

Skill Development Activities @ EED

Sem.-3



MS Office



Measurement



Electrification



Circuit Simulation

Sem.-4



MATLAB



AutoCAD



Earthing



Power Converters

Sem.-5



Energy Audit



PLC/SCADA



Motor/Pump Test



Switch Gear

Sem.-6



Load Calculation



Starter & Contactor



Arduino



Electric Bill

Sem.-7



Robotics



IoT



Solar System



FEA

Sem.-8



Mock Interview



Aptitude









Group Discussion



Soft Skills

Placement @ Glance

		2017	2018	2019	2020
 Registered	>	81	60	32	21
 Placed	>	62	47	30	19
 Placed Percentage	>	76.54%	78.33%	94.00%	90.48%
 Highest Package	>	3.00 LPA	3.00 LPA	1.80 LPA	2.40 LPA
 Average Package	>	1.24 LPA	1.55 LPA	1.47 LPA	1.56 LPA
 No. of Companies	>	33	18	15	17

The Placement of Batch 2021 is still ongoing.

Top Recruiters @ DU



Government Approvals



Darshan
UNIVERSITY

योग: कर्मसु कोशलम्

University Campus

📍 Rajkot-Morbi Highway, Rajkot – 363650 📞 9727747310

Counseling Centre

📍 401, Lotus Arcade, 8 - Royal Park, 150 Ft. Ring Road, **Rajkot**

📍 Galaxy Plaza, Nr. Umiya Circle, Opp. Bajaj Showroom, **Morbi**

📞 9429050495, 7990448878 🌐 www.darshan.ac.in