



The Electrical Engineering Department offers a specialized B.Tech program in Electrical Engineering with a focus on Smart and Sustainable Power Engineering, developed in collaboration with L&T EduTech. Our department is dedicated to equipping students with cutting-edge knowledge and skills, fostering their growth into exemplary Electrical Engineers, Entrepreneurs, Scientists, and Academicians. The specialized skilling program at LTSU is distinguished by its innovative curriculum, which seamlessly integrates core Electrical Engineering courses with project-based learning and elective subjects covering the latest trends and techniques. This approach not only enhances global employability but also opens up diverse opportunities in various domains. We are fully committed to our students' career success and also aim to alleviate their financial burdens. Our university introduces a groundbreaking approach to financing education through our scholarship scheme and "Pay after Placement" scheme, exclusively for B.Tech Electrical Engineering aspirants.

B.TECH | ELECTRICAL ENGINEERING

SMART & SUSTAINABLE POWER ENGINEERING

PAY HALF PROGRAM FEE AFTER PLACEMENT

COURSE STRUCTURE

- ⇒ Course Duration: 4 Years (3 Years + 1 Year OJT/OJD)
- Three years in LTSU Campus
- One year on Job Training/Deployment in Industry

PROGRAM OUTCOME

- ⇒ Exploration of modern Electrical Drives utilized in various Industries
- ⇒ Comprehension of pivotal role played by power electronics
- ⇒ Investigation into the complexities of Power systems
- ⇒ Understanding of safety regulations and standards in electrical engineering
- ⇒ In-depth exploration of Energy storage and Automobile battery systems
- ⇒ Introduction and Exposure to charging station infrastructure for electric vehicles
- ⇒ Study of Hybrid motors and their applications

ELIGIBILITY CRITERIA

- ⇒ Student with a minimum of 60 % marks in class XII Non Medical or 60% Percentile in JEE/CUET.
- ⇒ Selection Process: Personal Interview Online/Offline

KEY SECTORS OFFERING CAREER PROSPECTS

- ⇒ Power generation
- ⇒ Automation Robotic Sector
- ⇒ Transmission and distribution of power
- ⇒ Solar and wind power
- ⇒ Electrical maintenance
- ⇒ Health care and social assistance
- ⇒ Information Technology
- ⇒ Manufacturing sector
- ⇒ Professional, Scientific and Technical services
- ⇒ Mining and Construction
- ⇒ E-vehicle design and many more.....



PROGRAM HIGHLIGHTS

- ⇒ Scholarships as per the LTSU policy
- ⇒ Hands-on Learning: Engage in practical, experimental methods to cultivate real-world skills.
- ⇒ Real-time Live Projects: Gain first-hand experience in dynamic project environments with real-time projects.
- ⇒ Industry Internships: Secure valuable practical experience through industry internships.
- ⇒ Job Assurance: Job placement based on performance and skill set, offering competitive salary packages ranging from 3 to 10 lakhs per annum

COURSE TECHNOLOGY

- ⇒ Fundamentals of electrical and electronics circuits and systems.
- ⇒ Power generation, transmission, and distribution systems.
- ⇒ Electrical machines including transformers, motors, and generators.
- ⇒ Control systems and automation.
- ⇒ Electrical measurements and instrumentation.
- ⇒ Renewable energy systems such as solar and wind power.
- ⇒ Testing and troubleshooting of electrical equipment.
- ⇒ Simulation using software tools like MATLAB, and LabVIEW.

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