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## Ollered Programmes

## **B.Tech.** (Electrical and Computer Engineering)

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### **Programme Overview**

The Department of Electrical Engineering offers a four-year B.Tech programme in Electrical and Computer Engineering with the aim to develop capability in students to solve complex engineering problems. The course curriculum provides a sound knowledge of electrical machines, power systems, power electronics, control systems, signal processing, Electric vehicles, Computational algorithms, Computer softwares, programming languages and many more.

### **Programme Outcomes**

# After completing the electrical and Computer engineering programme the students will be able to:

Programme Educational Objectives (PEOs)

**Programme Specific Outcomes** 

- Apply knowledge of mathematics, basic science and engineering fundamentals to solve complex problems in electrical engineering.
- Identify problem in electrical systems based on available data

### **Key Information**

Duration

4 Years

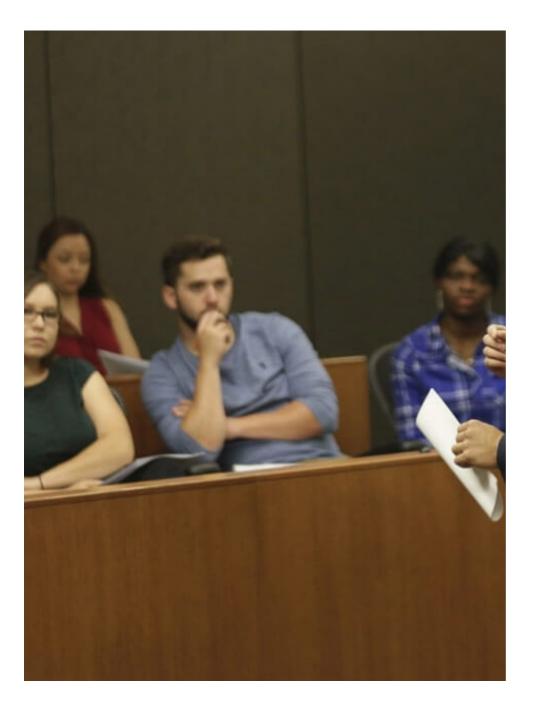
### **Eligibility**

- The candidate should be Indian National.
- Passed 10+2
  examinations with
  Physics and
  Mathematics as
  compulsory
  subjects along with
  one of the
  Chemistry /
  Biotechnology /
  Biology / Technical
  vocational subject.
  Obtained at least
  50% (45% in case of
  candidate belongs

- and interpret the results.
- Design electrical systems that meet specified needs with safety considerations.
- Design and conduct experiments, analyze and interpret data.
- Use modern electrical engineering softwares and tools.
- Create awareness of electrical engineering solutions for social benefit considering current and upcoming tools / technologies.
- Understand the impact of engineering solutions in a global, economic, environmental context.
- Demonstrate ethics and professional abilities.
- Work effectively as an individual and as a member in a diverse team.
- Communicate effectively in both written and verbal form.
- Demonstrate knowledge and understanding of engineering and management principles for execution of projects.
- PEO 1: To develop professional skills in students to provide solution to problems in electrical and allied fields.
- PEO 2:To develop students with conducive learning attitude for lifelong learning.
- PEO3:To demonstrate behavioral skills and ethic's.
- PSO1: An ability to develop proficiency in the use of hardware/software with progressive depth of complexity.
- PSO2: Integrate the knowledge of electrical engineering and computational techniques for the controllability, reliability and sustainability
- ❷ PSO3: Contribute towards the development of smart power grid, optimization of hybrid and EV technology, and integration of green energy along with the allied computer fields.

- to reserved category (SC/ST) above subjects taken together. OR
- Passed diploma in Engineering and Technology and obtained at least 50% marks (at least 45% marks, in case of backward class categories and persons with Disability candidates belonging to Maharashtra state only)

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# Career Prospect

The B.Tech Electrical and Computer Engineering programme provides students with numerous career opportunities. Some of the job profil graduates holding a B.Tech degree in Electrical Engineering are:

- Electrical Engineer
- Electrical Design Engineer
- Instrumentation Engineer
- Micro Electrical Engineer
- Power Engineer
- Telecommunications Enginee

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