



Bharati Vidyapeeth
(Deemed to be University)

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Offered 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
- ✓ **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 profiles graduates holding a B.Tech degree in Electrical Engineering are:

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

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