Veermata Jijabai Technological Institute
Electrical Engineering Department

Going far ahead of simple circuits of Edison and Tesla, Electrical Engineering has illuminated our world by smart power grids with green energy and has driven our industry by power of Electronics. Computational power of handling large complex and nonlinear dynamical systems makes it possible to provide real-time control of multi-disciplinary problems with the help of fast processors contributing to the betterment of human life and progress of society at large.

Vision
Promoting global leadership qualities, lifelong learning and technical expertise with ethical standards to pursue excellence in the field of Engineering and serve society.

Mission
To provide our students with strong theoretical foundation, practical engineering skills, interpersonal communication, team work, emphasis on ethics in professional conduct and critical thinking.

To prepare our graduate and research scholars for successful engagement in commercial, industrial enterprise, research and development in the field of Electrical Engineering.
Programme Educational Objectives (PEOs)

For B.Tech. Electrical

1. Obtain a broad knowledge of electrical engineering to serve as a foundation for lifelong learning, and to achieve success in their professional career and/or advancement to graduate studies;
2. Our graduates should excel in engineering positions in industry and other organizations that emphasize design and implementation of engineering systems and devices.
3. Graduates, within four years of graduation, should demonstrate peer-recognized expertise together with the ability to articulate that expertise and use it for contemporary problem solving in the analysis, design, and evaluation of electrical and electronic devices and systems.
4. Develop the creative and critical reasoning skills needed to solve technical problems, ethically and responsibly, in service to society;
5. Acquire the mathematical and scientific knowledge needed to solve emerging real-world problems involving power, electronics, control systems, image analysis, signal processing and communication systems, along with the communication, organization and teamwork skills necessary to execute complex technological solutions.
6. Develop communication skills necessary to bridge the divide between advanced technology and end users.
Programme Outcomes (POs)

For B.Tech. Electrical

1. An ability to apply knowledge of mathematics, science, and engineering,
2. An ability to design and conduct experiments, as well as to analyze and interpret data,
3. An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability,
4. An ability to function on multidisciplinary teams,
5. An ability to identify, formulate, and solve engineering problems,
6. An understanding of professional and ethical responsibility,
7. An ability to communicate effectively,
8. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context,
9. A recognition of the need for, and an ability to engage in life-long learning,
10. A knowledge of contemporary issues, and
11. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
GOALS

➢ To strengthen the U.G. & P.G. programs by enhancing the interaction with industry/research organizations/reputed academic institutes.
➢ To be counted among the leading Electrical Engineering Departments in India & abroad.
➢ To increase research activities in the department & encourage the faculty members to do Ph.D.
➢ To provide training for skill enhancement towards betterment of society.
➢ To increase IRG by providing training & consultancy.
➢ To transform from knowledge imparting activity to knowledge creation.
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<th><strong>SR. NO</strong></th>
<th><strong>ACTIVITY</strong></th>
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| 1. | MOU- VJTI Siemens | (Dr. Mokashi, Dr. Varwandkar) Dr. Mangalvedekar | • HV Lab development  
• Joint testing  
• Joint training programs  
• Joint research and publications |
| 2. | MOU-VJTI-L&T | Dr. Mangalvedekar, Prof. Bhil | • Lab development  
• Joint training |
| 3. | MOU-VJTI-SAMEER | Dr. Panse | • Joint training programs  
• Joint research and publications  
• Internship 4 PG students per year |
| 4. | MOU-VJTI-BARC | Dr. N. M. Singh and Mech. Dept. | • CFD Lab setup  
• Joint research and projects |
| 5. | MOU-VJTI-Samudra institute of maritime studies | Prof. H. B. Chaudhary | • Training Marine engineers |
| 6. | MOU-VJTI-Anglo Eastern maritime training centre Mumbai. | Prof. H. B. Chaudhary | • Training Marine engineers |
| 7. | MOU-VJTI-Portescap India Pvt. Ltd. | Dr. S. R. Wagh | • Joint Research  
• Joint Training |