

ELECTRICAL ENGINEERING



About

The Department of Electrical Engineering started since the inception of NIT Meghalaya. Presently the department offers B.Tech, M.Tech and PhD Programs. The B. Tech program started in 2010 with an intake of 30 students at NIT Surat and since 2014 onward M.Tech program has been started with an intake of 20 students offering specialization in Power & Energy Systems. Presently there are full time and part time research scholars, registered for the PhD program in diverse specializations. The Department aims to impart high quality education to the students and carry out fundamental and industry oriented research work. The research interest of faculties encompass various areas of electrical engineering such as Power system Control, Smart Grid Technology, Synchrophasor Technology, Power Quality and Renewable energy integration to grid, Power Electronics & Drives, Control System and Instrumentation, Signal Processing and Biomedical Instrumentation, High Voltage Engineering etc. The department have well-equipped laboratory facilities to the students such as Basic Electrical Engineering Lab, Electrical Machine Lab, Network and Systems Lab, Digital Electronics Lab, Power System Lab, Computational Lab, Control & Instrumentation Lab, Power Electronics Lab, Electric Drives Lab, Microprocessor Lab, Microcontroller & Embedded Systems Lab. Specialized simulation softwares like Matlab, Sincal, FLUX, PSPICE, PSIM, PSS@E, EMYP etc. are available with the department to carry out experiments and research activities. Besides, faculty of the EE department are very actively publishing papers in reputed journals and conferences such as IEEE, IET, Elsevier, Springer, Taylor and Francis, Wiley etc. Moreover, faculty members of EE department have received several sponsored research projects from various agencies like SERB-DST, CPRI, REC and State Council of Science Technology & Environment (SCSTE, Govt. of Meghalaya).

Vision

A Centre of Excellence in Electrical & Electronics Engineering and to produce high quality, self-motivated, creative and ethical engineers and technologists, contributing effectively to universal science and contemporary education.

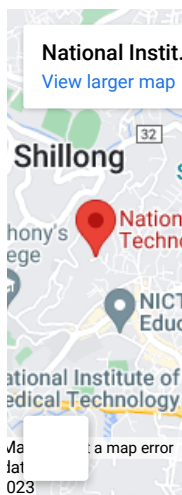
Mission of Department

Mission No.	Mission Statements
M1	To impart quality engineering education and ethics to its students
M2	To adopt the best pedagogical methods in order to maximize knowledge transfer
M3	To have adequate mechanisms to enhance implementation of theoretical concepts in practical set-ups
M4	To carry out high quality research leading to the creation of Intellectual Property
M5	To provide the best facilities and environment to its stakeholders by creating the desired ambience

Program Educational Objectives (PEOs)

Program Educational Objectives

PEO No.	Description
PEO1	Core Competence: Ensure practicing Electrical engineers to contribute for academia as well as industry or academia in contemporary issues using appropriate engineering tools in professional, social, economical and ethical manner including safety and environmental concerns.
PEO2	Breadth Competence: Exemplify teamwork and leadership qualities in allied professions with effective communication skill in the multidisciplinary complex engineering solution that aid the overall development of the nation and the world.
PEO3	Professional Ability: Motivate innovation and creativity through application of knowledge, skill and engineering solutions keeping in the view sustainable development of the society.
PEO4	Learning Attitude: Involve in dissemination of knowledge, skills and attitude with effective research through higher education and life-long learning.



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(http://14.139.208.246:8680/lisa_nitm/LSAcademia.jsp)



(<https://ccmt.nic.in>)

clear sky

21°C

Feels Like
Wind
Pressure

21°C
2.2 m/s
1006 hPa

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