

Power Electronics Lab

This laboratory is designed to carry out the power electronics and machine laboratory experiments by the undergraduate and graduate students.



Other Facilities

LCD projectors and notebook computers are available for lectures and presentation. Document printing and photocopying facilities are available at the department. Lecture notes and experiment manuals are provided to students. Admission, registration, accounting and examination related processes are performed in the Administrative Building and Dean's Office. Canteen and Fast Food Center are also available inside the campus. On campus generators are operated in case of power outages. Insured medical facility is available at the Dhulikhel Hospital, which is one of the KU's teaching hospitals. KU has good sports facilities and organizes Sports Week every year.

STUDENT LIFE

SEEE represents the students of the department and is actively involved in improving learning environment and the welfare of the students in the department. Conducting social welfare activities and improving interaction between students of other departments of the university itself and other institutions in Nepal has been the major work done so far by SEEE.

SEEE is a forum whereby students can improve their personal and professional qualities, and at the same time, work as a team in the endeavor of making social contributions.

Each year SEEE organizes various extra curricular activities. In extra curricular activities it organizes interactive programs, annual day program, SEEE Football Tournament, SEEE Quiz, Welcome to 1st year students and Farewell to final year students.



SEEE also publishes annual magazine containing mostly technical articles, current development in the field of electrical electronics and communication technologies and interviews of faculties.

SEEE also conducts various co-curricular activities such as interaction programs, talk programs, workshop and training sessions according to the need of students of the Department of Electrical and Electronics Engineering.



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*General Information
to
B.E Program Applicants*



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INTRODUCTION

The Department of Electrical & Electronics Engineering started Bachelor of Engineering program in 1994. Through all these years, it has significantly accumulated experience and resources to deliver quality education and perform quality research. Faculties with diverse academic backgrounds, quest for leadership in providing best electrical engineering education and continuously evolving teaching-learning and research processes are its major characteristics.

The prime objectives of the department are:

- To produce self-motivated, objective, confident, and creative graduates of highest quality with entrepreneurial attitude.
- To become a center of excellence in electrical & electronics engineering education and research.
- To closely collaborate with the industries and institutions so that the education and research in the department are inline with the current domestic and international needs.

Outline of the Bachelor of Engineering Program

The Bachelor of Engineering program is the core program of the department. It is 4 year duration program comprising of 8 semesters. The department gives strong emphasis on facilitating learning-by-doing. Strong modular course structure is followed. Each course is given adequate practical component. At each level, engineering project practice is carefully planned. Continuous improvement in the curriculum and course delivery method is always sought.

The program provides a strong foundation on basic science subjects and core electrical and electronics engineering subjects up to the second year. Then the students branch into two specialization branches: communication engineering and power-and-control engineering. Communication engineering students are also provided with the knowledge in power apparatus and systems, and power-and-control engineering students are provided with the knowledge about digital and analog communication systems. Students do projects in all the four years with varying degree of complexity, so that they can have the knowledge and the skills required for engineering design and implementation. While the laboratory work reinforces their understanding of various courses at each level, project work gives the students the platform for showing their creativity, testing their innovative ideas, and realizing the practicality of engineering education. Thus, the total coursework of the BE program comprises basic science courses, interdisciplinary courses, core electrical and electronics engineering courses, specialization courses, and practical oriented courses. The approximate division of credit-hour among the courses is as follows.



FACULTIES & STAFFS

Currently, there are 17 faculties and 3 technical support staffs in the department. Other departments of the University (Computer Science and Engineering, Mechanical Engineering, Natural Sciences and Media Studies) also offer various courses to the students of the department. Several new regular faculties are expected to join from August 2009. Visiting faculties and local experts are invited to deliver specialization courses and seminars.

LABORATORY AND OTHER FACILITIES

The department has several well equipped laboratories for student experiments and research-and-development. Laboratories are generally open for the working hours. With prior approval, the laboratories can be utilized any other time, even during holidays. Existing laboratories are continuously being upgraded and new laboratories are being added with Kathmandu University's own funding and with the help from international donors. Among the donors, NORAD and NHAM have provided significant funding and the funding is still continuing. The students also are also allowed to use the laboratories of other departments of Kathmandu University. Laboratories and workshops of the department of Mechanical Engineering are very much used by the students for their training and project work.

In addition to laboratory work, students are also taken to field visits to various industries and organizations to reinforce their learning and to observe real world technology. The lecture rooms and laboratories of the department are situated in the Engineering Block and High-Voltage Block.



Electronics Lab

This laboratory is designed to facilitate the general electronics engineering experiments and project work by the undergraduate students.



Power Lab

The power lab has various moderate sized motors, generators, transformers, variable power supplies, and other power components. Experiments related to induction, DC, and synchronous machines can be conveniently performed in the laboratory.



Communication Lab

This laboratory is designed to carry out the undergraduate experiments and project work that are related to analog and digital communication systems, microwave and antenna systems, and RF measurements.

Instrumentation and Control Lab

This laboratory is designed to carry out the undergraduate experiments and project work that are related to Measurement and instrumentation and Control System Design.



DSS Lab

The Digital Signals and Systems Laboratory is primarily for the digital signal processing and digital system design using FPGA.

Computer Lab

This laboratory is to carry out the laboratory and project work which need computer programming and simulations.



High Voltage Laboratory

High Voltage Laboratory in KU is first of its kind in Nepal. The lab is constructed in cooperation with NTNU. The major system in the lab comprises High Voltage Construction Kit from Haefely Test AG, Switzerland.

Lighting Laboratory

Lighting Laboratory in KU is also first of its kind in Nepal. The lab is primarily for luminary and LED testing. The major system in the lab comprises LED measurement system.

