Welcome to the Department of Electrical Engineering of NCE. The mission of the Department of Electrical Engineering is to provide affordable, quality undergraduate education in the area of electrical engineering. Electrical Engineering formulates the basis of most modern applied technologies. It nurtures fundamental science over the expansions into Electronics, Instrumentation, Control, Power Electronics, Renewable, Smart systems, Electric automobiles, Avionics, bio-medical instrumentation, etc. in Electrical engineering, the horizon is the limit. The faculty of the department have tremendously augmented with many advanced courses with a focus on the following areas: Network analysis & synthesis, machine analysis & design; control engineering; Basics of analog & digital electronics circuits; microprocessor & microcontrollers; procedural & object-oriented languages; and in-depth coverage of power system. We also take care of our student’s extra activities and provide a platform of internship in various industries and introduce their creativity by involving them in a Robotics Club and Electrical club.

“We strive to emerge as a nationally recognized center of excellence for professional education in Electrical Engineering by imparting quality education towards the holistic development of students, with emphasis on academics, research, and technological services for the betterment of society.”

Er. Suman Timalsina
Head of the Department
Department of Electrical Engineering
Electrical engineering itself is one of the exciting courses of study. We feel proud to involve such course in our program here at NCE. This department is running successfully at NCE since 2066. It has the accumulated experiences and physical resources of more than 5 years now, for providing quality engineering education and performing applied engineering research. It has a strong group of faculties with diverse experiences. It is continuously evolving and continuously seeking its faculty and infrastructure development. It takes the followings as its prime objectives:

- To produce highly qualified, objective, confident, and creative graduates with entrepreneurial attitude, and attain excellence in engineering education and applied research
- To become a center of excellence in electrical & electronics engineering research
- To collaborate with various organizations in making the engineering education more relevant to the domestic context and in obtaining in-country applied research solutions to the domestic technical problems

Electrical Engineering

Electrical engineering is concerned with the basic forms of energy that run our world. Whether it’s gas, hydropower, wind, solar, geothermal, or wind energy, electrical engineers deal with distributing these energies from their sources to our homes, factories, offices, hospitals, and schools. You have seen various kinds of electrical devices and systems around you. Do you know how it operates? Electrical engineering deals with design, research, development, planning, manufacturing, various electrical instruments and devices.

Electrical engineering also involves the exciting field of electronics and information technology. Do you have a cellular phone or a computer? Wireless communication and the Internet are just a few areas electrical engineering has helped flourish, by developing better phones, more powerful computers, and high-speed modems. As we enter the 21st century, the technology that surrounds us will continue to expand and electrical engineers are leading the way.

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Electrical Engineering
Making a difference, career building and giving back to society, these are some of the questions that our students ask. Our faculty and staff believe that to answer these questions, our students need to engage in their academic work, participate in the department’s activities, and experience a real-world environment. Our goal is to provide students with the knowledge and skills they need to contribute to society and solve real-world problems.

### Why NCE for Electrical Engineering?

学生的才能和志向将使他们成为明天的工程师。电工程系的学生有机会参与各种实地考察、研讨会、讲座和研讨会。这将帮助他们了解电力工业、制造业和其它行业的实际情况。参加这些活动将帮助学生了解他们将来的工作环境，并使他们了解电力工业、制造业和其它行业的实际情况。

### Electrical Engineering Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>1st Semester</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>2nd Semester</td>
<td>Power Systems Analysis</td>
</tr>
<tr>
<td>3rd Semester</td>
<td>Advanced Control System</td>
</tr>
<tr>
<td>4th Semester</td>
<td>Power Plant Engineering</td>
</tr>
</tbody>
</table>

### Elective Courses

- Electrical Engineering I
- Electrical Engineering II
- Electrical Engineering III
- Electrical Engineering IV
- Electrical Engineering V
- Electrical Engineering VI
- Electrical Engineering VII
- Electrical Engineering VIII

### Field Visits

- Power Industry, Manufacturing Industry
- Field Visits to Power Stations, Manufacturing and Participation in the Department's Activities

### Resources

- The Department is fully equipped with all the necessary equipment and software for teaching and research.
- Students have access to well-equipped laboratories and classrooms.
- The library is fully equipped with books and journals relevant to electrical engineering.

### Faculty

- The faculty is composed of experienced and dedicated professionals who are experts in their respective fields.
- The faculty is committed to providing high-quality education and research.

### Future Opportunities

- Graduates of the Electrical Engineering program at NCE are at the forefront of the electrical engineering field.
- They are well-equipped to compete with other students of similar fields.
- They are encouraged to participate in the department's activities and projects, which will help them develop their skills and knowledge.

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**Note:** The above information is based on the Electrical Engineering program at the National College of Engineering (NCE). The program is designed to provide students with a comprehensive understanding of electrical engineering and prepare them for careers in the field. The curriculum includes a wide range of courses and activities that are designed to develop students' technical and professional skills. The program also provides opportunities for students to intern and gain practical experience in the field. As a result, graduates of the program are well-equipped to excel in their careers and make a significant contribution to society.