The Department of Electronics and Computer Engineering is established from the very first academic year of National College of Engineering. The department has been imparting high quality education to the young budding engineers with the support of excellent infrastructures, well-equipped laboratories and valuable resources. A team of dedicated, highly qualified and experienced faculty members is always keen to share their knowledge and expertise with the students.

The department also arranges various value-added courses for the students according to the trending global markets. Besides, the department also conducts regular seminars, workshops and lectures by eminent experts from various renowned organizations. The students are encouraged to organize and participate in various local and national level technical events through Robotics Club and IT Club.

Er. Pradip Adhikaree  
Head of Department  
Department of Electronics and Computer Engineering

**HoD Note**

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Er. Pradip Adhikaree  
Head of Department  
Department of Electronics and Computer Engineering
Electronics, Communication and Information Engineering

Objectives:
- To produce highly qualified, motivated, confident graduates with entrepreneurial attitude and innovative mindset to fulfill the demand of the society.
- To become a center of excellence in electronics & information 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.
- To enhance students with updated hands on skills needed by industry.

Career
Electronics, communication and information engineer go on to successful careers in a wide range of organizations working locally as well as globally in the field of communication, software, mobile applications, electronics applications, networking, innovation and research. Electronics communication and information engineer can as:
- System Network Engineer in telecommunication companies like NTC, Nepal Telecom, Smart Cell.
- Broadcasting Engineer in TV Companies and Radio Stations.
- Software Developer, QA Engineer, SEO Engineer and Project Lead at various National and International Software Firms.
- Communications System Engineer at defense and security organizations like Nepal Army and Nepal Police.
- Biomedical Engineer at Hospitals and Medical Centers.
- Network Engineer at Banks and Government Organizations.
- Electronics Engineer in Electronics Equipment/Components manufacturing companies.
- Broadcast System Engineering in TV Companies and Radio Stations.
- System/Network Engineer in telecommunication like Nepal and Nepal Police
- Biomedical Engineer at Hospitals and Medical Centers.
- Network Engineer at Banks and Government Organizations.
- Electronics Engineer in Electronics Equipment/Components manufacturing companies.
- Broadcast System Engineering in TV Companies and Radio Stations.

WHI National College of Engineering for Electronics, Communication and Information Engineering?
- It is the foremost program run at NCE and is being taught since 2059 B.S.
- The department has well equipped laboratories and workshops.
- The department arranges various value-added courses, training, workshops and seminars by experts according to the trending global market requirements.
- The department is formed with a team of highly qualified, experienced and dedicated faculty members.
- Students are highly encouraged in Research and Development (like extra classes, individual attention and emotional counselling).
- Direct communication between faculties and students is consultation regarding subject matters or any information regarding new technologies or career opportunities is made possible as full-time faculties are always present in the college premises throughout the working hours.
- Department provides fully-funded trainings related to most recent technologies to all and every year students.
- Various workshops, hardware and software competition and College Events (Yatra Series) is organized through NCE Robotics Club.
- Students with extra abilities are always encouraged by providing Incubation Center, Laboratory materials or any necessary resources to keep alive their passion, likewise students with special requirements need are also taken care of by providing them with necessary help like with classes, individual attention (emotional counselling).
- Communication between Students (Class Representatives), Department and Guardians is always kept at the highest priority.

ACHIEVEMENTS
Winner - Democlaya, 2019 (Organized by LOCES, Pulchowk Campus)
Winner - UNEP SEG, 2018 (Organized by BASE)
Runner up - Aero Robotics, 2017 (Organized by SOMES- IIE)
Winner - SSA International Space App Challenge, Kathmandu 2016 (Organized by ROBMIT)
Second Runner Up and Best Design Award - Yatra n.1, 2015 (Organized by BASE)
Winner and Grand Prize Award - Robo Soccer, 2014 (Organized by Robotics Club- Pulchowk Campus)
And Many More...

Special Activities for Students of Electronics, Communication and Information Engineering
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Some of the specialized fields for Electronics, Communication and Information Engineering
- Artificial Intelligence
- Avionics
- Broadcasting Engineer in TV Companies and Radio Stations
- Communication System Engineer at defense and security organizations like Nepal Army and Nepal Police
- Biomedical Engineer at Hospitals and Medical Centers
- Network Engineer at Banks and Government Organizations
- Electronics Engineer in Electronics Equipment/Components manufacturing companies
- Broadcast System Engineering in TV Companies and Radio Stations
- System/Network Engineer in telecommunication like Nepal and Nepal Police
- Biomedical Engineer at Hospitals and Medical Centers
- Network Engineer at Banks and Government Organizations
- Electronics Engineer in Electronics Equipment/Components manufacturing companies
- Broadcast System Engineering in TV Companies and Radio Stations

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<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
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<tbody>
<tr>
<td>1st Semester</td>
<td>Engineering Mathematics I, Engineering Drawing I, Basic Electrical Engineering, Computer Programming, Engineering Physics, Digital Logic</td>
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**Elective Courses**

- Satellite Communications
- Data Mining
- Biomedical Engineering
- Broadcast Engineering
- Avionics
- Optical Fiber Systems
- Cloud Computing
- Agile Software Development
- Advanced JAVA
- Image Processing
- Enterprise Application Development
- Field Visit
- NTV/Radio Nepal
- NTC
- Sagarmatha Earth Station
- Pokhara (Hydropower, Cable car)