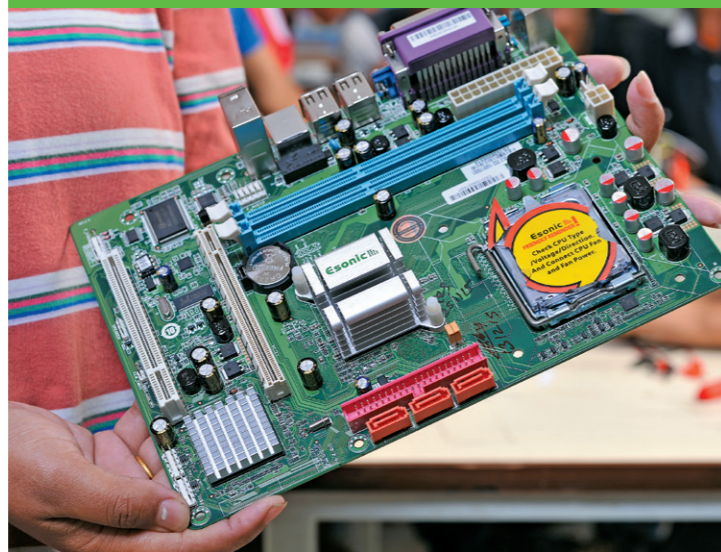




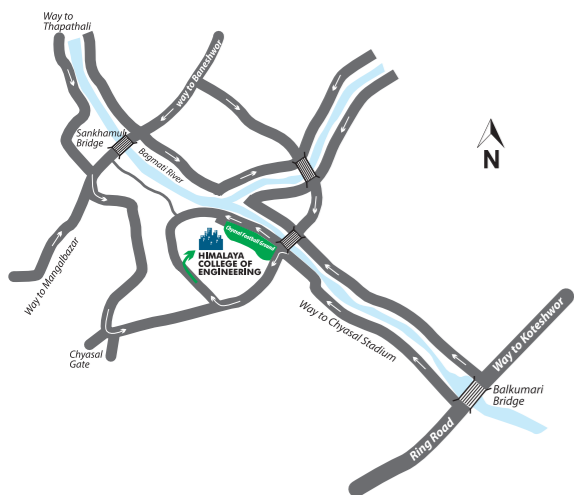
BCA

Bachelor's degree in computer application (BCA) is a four year (eight-semester) undergraduate program in computer application. The course covers wide application of computer as programming language, hardware and software, computer networks, worldwide web, database management system, logic, multimedia and many more.

The demand of human resource in IT industries is growing now a days and this is fulfilled by BCA graduates. The role in IT companies may be a system engineer, software tester, joiner programmer, web developer, system administrator, software developer and more.



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Special Features of HCOE

- TU affiliated programmes with worldwide recognition
- Numbers of IOE semester topper in different programs
- Easy location, accessible from all directions.
- Experienced and professional full time teaching faculties, supported by highly professional and senior visiting faculties.
- Main forms of teaching are lectures, practical works and field visits followed by different trainings, workshops and seminars in the emerging issues.
- Advanced and highly structured laboratories in each department
- Library has a good number of national and international text books, reference books and magazines.
- We have a wide range of excellent reach in national and international arena-Japanese and other multinational companies-who are interested to recruit our graduates.
- Market oriented trainings by industry professionals as part of skill and career development program.
- Advanced and updated computer and networking lab
- Updated and career oriented training in various semesters.
- Field visits in different semesters to enhance the subject matter.
- Internship in different ICT industries, architectural forms and consultancies
- Active participation of student through different technical clubs.
- Collaboration with national and international organizations and academic institutions on various project works.
- Annual Himalaya Expo, an Exhibition of our students.
- Access of high speed Wi-Fi zone.
- Use of multimedia, audio and visual in teaching.
- College supports for the innovative extracurricular activities.
- Dynamic and ever success Robotic Club.
- Provision of different scholarships.

Admission Criteria

To be eligible to appear in the Institute of Engineering entrance exam, one must have secured a minimum of GPA C in National Examinations Board (NEB) or 45% in A Level or Diploma in Engineering or equivalent with Physics, Chemistry and two papers of Mathematics (200 Marks). One who has appeared in the final examination of NEB or equivalent can also apply on the admission process arrange by IOE Central Admission Board.

- Applicants (who have passed IOE Entrance Exam) must submit their application for admission to the college
- The online application form will be available on colleges' website (www.hcoe.edu.np)
- While submitting the form, one needs to specify the order of priority of the faculties of engineering (BE Computer, Electronics, Communication & Information engineering, Civil, B Architecture).
- Aptitude test for B Architecture applicants.
- Publication of final list for admission on Central Admission Portal (admission.ioe.edu.np) as per the mentioned date.



Our Academic Programmes

Programme	Annual Intake	Total Semester	Time Duration
BE in Electronics, Communication and Information Engineering	48	8	4 years
BE in Computer Engineering	48	8	4 years
BE in Civil Engineering	96	8	4 years
Bachelor in Architecture	48	10	5 years
BSc CSIT	48	8	4 years
Bachelor of Computer Application	36	8	4 years





Introduction

Himalaya College of Engineering (HCOE) is affiliated to Tribhuvan University (TU), Nepal. Established in 2000 AD, it produces qualified and competitive engineers who are the backbone for the rapid development of the nation. The primary aim of the college is to provide quality engineering education and produce competent engineering graduates. The college conducts BE programmes in Civil, Computer, Electronics, Communication and Information Engineering. It also implements Bachelor in Architecture as well as BSc in Computer Science and Information Technology (BSc CSIT). Bachelor of Computer Application (BCA) will be launched in coming year. The college is powered by a strong team of professionals, academicians and experienced people. The College is associated with KMC educational network from 2007 and has expanded programmes since its association with the network.

The College is located at Chyasal, Lalitpur which is an easy access from all directions. It is extended in an area of 24 Ropani land with a seven storey building and other five lab buildings. All the academic and administrative programmes as per the standard laid down by Institute of Engineering (IOE) are run in this infrastructure. As a part of teaching-learning processes, seminars, workshops and trainings are regularly conducted. Throughout the semesters students go for the field visits, field works and involve in innovative project works. The college provides quality education required for the overall development of the students and assists them in pursuing their professional and educational goals. The BE graduates have shown professional competence in computer, electronics and communication, civil engineering and architecture. Some students have achieved the highest scores in IOE semester examinations. And our graduates have got well-deserved positions in different institutions in the country and abroad as well. The college is proud of these human resource.



Electronics, Communication and Information Engineering

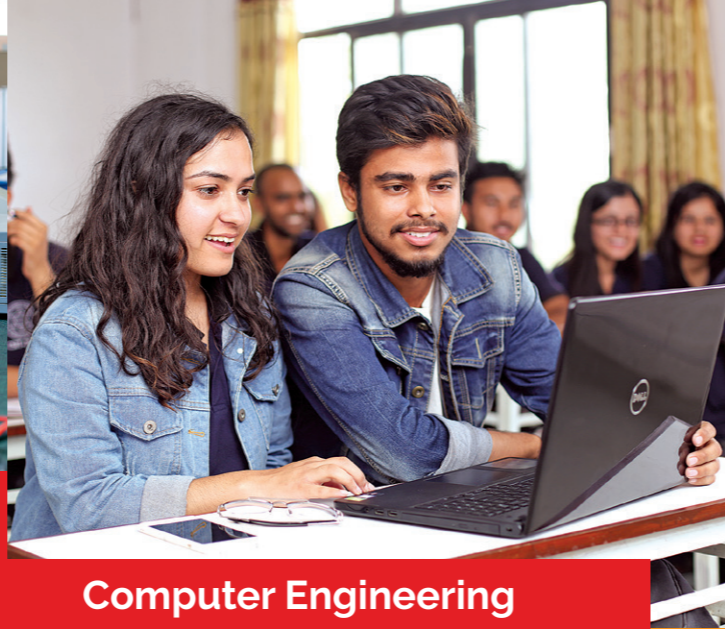
Electronics, Communication and Information Engineering is a four-year (eight semester) programme with 50 core and elective subjects that are taught through lecture, laboratory works and site visits. Electronics and Communication Engineers are responsible to apply various techniques and skills to analyze as well as design Electronics and Communication Systems.

Electronics is at the heart of the new industrial revolution. Recent innovations in electronics and communication have led to rapid growth in areas such as mobile, high speed data communication, high end computing devices, multimedia gadgets, internet and Intranet, and research

Career in Electronics, Communication and Information Engineering

Electronics and Communication Engineers make technical contributions to design, develop, manufacture and assemble electronics and communication devices. They can work in the following sectors:

- Consumer Electronics Manufacturing Companies
- Telecommunication companies
- Telecom Vendors
- Hospitals & Medical Institutions
- Internet service providers
- Civil Aviation Companies
- Industries
- Academic Institutions
- Government offices



Computer Engineering

Bachelor's degree in Computer Engineering is a four-year (eight-semester) programme with 52 core and elective courses supported by laboratory works and field visits. Computer Engineers design and develop the application of computer and Information system.

The Computer Engineering programme at HCOE was launched in 2000. This program intendeds to provide skill and knowledge to work on software development, network design and implementation, hardware and software troubleshooting, network policies and design and implementation of computer-based systems.

Career in Computer Engineering

Computer Engineers are in high demand in different sectors including Software, Hardware and Electronics. Computer engineer can work as:

- Software Engineer
- System Administrator
- Network Administrator
- Web Developer
- System Analyst
- Database Administrator
- Information System Manager
- Academic Institutions
- Government officer

Civil Engineering

Bachelor's degree in Civil Engineering is a four year (eight - semester) programme. This branch of engineering deals with design and construction of civil engineering structures and also involves in research at latest burning issues like water resource management, climate change, infrastructure development etc. It has been a challenging field since the down of Egyptian civilization. This has become more contextual in the sense that our country is in the need of huge reconstruction because of the earthquake that struck Nepal in 2072. If you think, you are prepared enough to face the challenge; this profession can provide you with an exciting and rewarding career.

Scope and Career Path

The civil engineering graduates have the prosperous prospective career opportunity at different private and public arena from national to international levels and they can work as:

- Governmental officer
- Consultant
- Construction expert
- Academician
- Researcher
- Entrepreneur
- Designer
- Project Manager



Architecture

Bachelor of Architecture (B Arch) at HCOE is a 5 year (10 semesters) academic programme with 64 subject and 334 credit hours. It is a professional degree which was established at HCOE since 2066 BS with an intake of 24 students and with 48 students from 2074 BS. Architecture is the mother of all engineering subjects as it deals with human shelter, civilization, culture and the technology hand to hand for everyday life we deal with spaces and built form.

Department of Architecture (HCOE) offers a holistic architectural education to produce quality architects. It is based on teaching, practice and research conducted on studio based learning.

Career in Architectural Field

After completing B Arch degree, Architects can work on designing firms, construction site academic institution, NGO related to building construction and Industry.

- Project Architect
- Building Designer
- Illustrator
- Free Lancing Architects/ Consultants
- Establish Own Firm
- Project Manager
- Lead Architects.
- Government Officer (entry Level III Class officer at DUBDC, Nepal Army, Nepal Police, Pashupati Dev., Lumbini Dev., Town Dev. Fund)
- NGO and INGO

BSc CSIT

Bachelor of Science in Computer Science and Information Technology (BSc CSIT) at HCOE is a 4-year (eight-semester) course offered under the affiliation of Tribhuvan University, Institute of Science and Technology. The course designed for this program is highly acceptable and demanding to the IT industries. The program comprises computer science and allied courses of 126 credit hours and it develops the underlying principles of both computer science and information technology. The programme develops the skills that are essential for both computer professional and IT managers.

Career Path

The CSIT graduates have a prosperous career opportunity at different government, non-government, private sectors and public organizations. They can work as:

- System analyst
- Programmer
- IT officer/manager
- Network administrator
- System administrator
- Database administrator
- Software developer/web developer

