HIMALAYA
COLLEGE OF ENGINEERING

(Affiliated to Tribhuvan University)

HIMALAYA COLLEGE OF ENGINEERING
H C E T U
2000
Kathmandu

>> **BE in Computer Engineering** >> **BE in Electronics and Information Engineering** >> **BE in Civil Engineering** >> **Bachlor in Architecture** >> **BSc CSIT**

Message from the
CHAIRMAN

Dear Students,

Himalaya College of Engineering (HCOE, TU), one of the most reputed private engineering college in Nepal, is proud of its many achievements as the leading developer of technical education for the students from diverse backgrounds, cultures and skill sets. We are among the few private academic institutions in engineering sector located in Kathmandu valley and the best suited for quality engineering education. Our vision is based on hard work, open communication, a strong emphasis on team work and a high level of responsibility. This visionary culture allows and emphasizes our wards not only to adopt the present day challenges but also individual responsibilities to the society and our nation at large. Learning should be based on doing things and not merely knowing things. Until and unless learning solutions relate to real life and motivate the learner to acquire and apply the knowledge, the whole process will remain superficial. Our institution has set specific objectives and planned activities for achieving excellence in all spheres of technical education.

Beyond providing a sound education, we wish to provide our students a holistic learning experience for life. Our aim is to teach students to LEARN, not just STUDY. Hence, we strive to travel beyond the boundaries of mere books. We have realized that the future is abstract and unknown but the youth in our hands are real and can be molded. Our mission is to prepare you as nation-builders, movers of technology and the agents of change. The knowledge that you will gain, the fine qualities that you will imbibe and the technical skills that you will learn to apply will be your major contribution to your parents, to society, and to the nation. We create not the future instead we craft you for the future. The service of the institution in creating personally mature, professionally equipped and service-oriented graduates is really worth mentioning.

We believe in total learning and sharing. Have a visit to HCOE and feel good to get good education.

SUCCESS IS A JOURNEY NOT A DESTINATION
Ensure That You Are In The Right Direction, Instead Of just At The Right Speed

Best Wishes,
Mr. Bishnu P Sharma
Chairman

Message from the
PRINCIPAL

It gives me immense pleasure to state that Himalaya College of Engineering has been making progress towards its vision. It has expanded its scope to run bachelor of engineering programme in four disciplines: Computer Engineering, Electronics and Information Engineering (Updated course of Electronics and Communication Engineering), Civil Engineering and Architecture. Since 2011, BSc CSIT of Institute of Science and Technology, TU was started and has resulted a successful outcome. It is planned to introduce additional programs in Bachelor and post graduate level in engineering.

The college has been making continuous effort to develop itself in various sectors. It has made progress in building infrastructures and developing other physical facilities. We have established highly sophisticated labs to run practical educational programs with increased facility.

With the emphasis on academic excellence, the pass percentage of students is not only high but many students have also got the highest score in IOE exam. Our graduates have earned prominent positions in different reputed institutions, companies and government offices in the country. Many students have received scholarship in foreign universities for higher studies and research. This is possible due to a healthy academic environment and the dedication of qualified and experienced faculties and the staffs.

As part of extracurricular activities, we conduct various programs to acquaint the students with the upcoming challenges and opportunities and mould them to face the ever growing competitive world.

We welcome new graduates to join HCOE in Bachelor of Engineering and BSc CSIT studies. You can rest assured that we will do all to help you build your careers in various technical fields.

Dear students, your future at HCOE is bright. The College is ready to provide you opportunity and every possible facility for research and to turn your innovative plans into reality.

Er. Madan Sharma
Principal

Introduction

Himalaya College of Engineering (HCOE) is affiliated to Institute of Engineering (IOE), Tribhuvan University (TU), Nepal. The College was established in June 2000 AD with an aim to produce qualified engineers through competent engineering education who will be the backbone for the national development. The Bachelor of Engineering programs conducted by the College are Computer Engineering, Electronics and Information Engineering (An Updated course of Electronics and Communication Engineering), Civil Engineering and Architecture. BSc in Computer Science and Information Technology (BSc CSIT) of Institute of Science and Technology, TU was launched in 2011. The college is being operated by a strong team of professionals and academicians who possess appropriate experience in educational networks for a long time. The College has been associated with KMC Educational Network since May 2007. It has expanded programs, and gained strength since its association with KMC Educational Network.

The College owns ten ropani land and has leased about fourteen ropani of land at Chyasal, Lalitpur.

The College has a seven storey seismic resistant academic building with 57,600 square feet floor area where all programs are being run at present. The College has maintained all its academic programs as per the standards laid down by IOE and Nepal Engineering Council (NEC). It assures quality education required for the students in the present context, and assists them in pursuing their educational and professional goals. Graduates of this College have shown professional competence in Computer Engineering, Electronics and Communication Engineering, Civil Engineering, Architecture and ICT fields. Many students have topped in different disciplines of IOE conducted examinations. Students have recently exhibited Himalaya Exhibition, HEx-2018 in college premises.

The College has given equal priority to extracurricular activities, Inter and Intra College sport competitions are held every year. Robotics team of the college achieved first position (Grand Prix) in Inter Engineering College Competition held in Kathmandu in 2008 and have participated in Tech Fest organized by IIT Mumbai, India. All departmental clubs perform their knowledge and skills through different academic activities.

Our
Philosophy

VISION

To establish itself as one of the major centers of learning in the field of science and engineering through conducting different educational programs of engineering and providing research, trainings and consulting services in these fields.

MISSION

To provide qualitative and competitive technical education and prepare graduates for the national development and prosperity and to shape them to face global challenges in the modern engineering scenario.

OBJECTIVES

- To enhance the technological capabilities of the country through quality education to the students and produce qualified, skilled and competent engineering human resources required for the nation.

- To promote quality engineering education through different training programs, research works, research labs.

- To further enhance the quality of engineering researchers and produce specialized human resources by offering MSc degree in various engineering and science discipline in future.
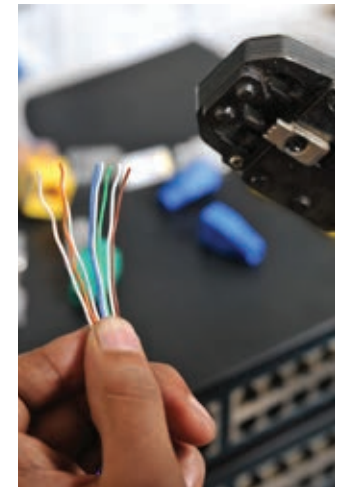
Academic **Programs**

Bachelor's Degree in Electronics and Information Engineering
(Intake: 48)

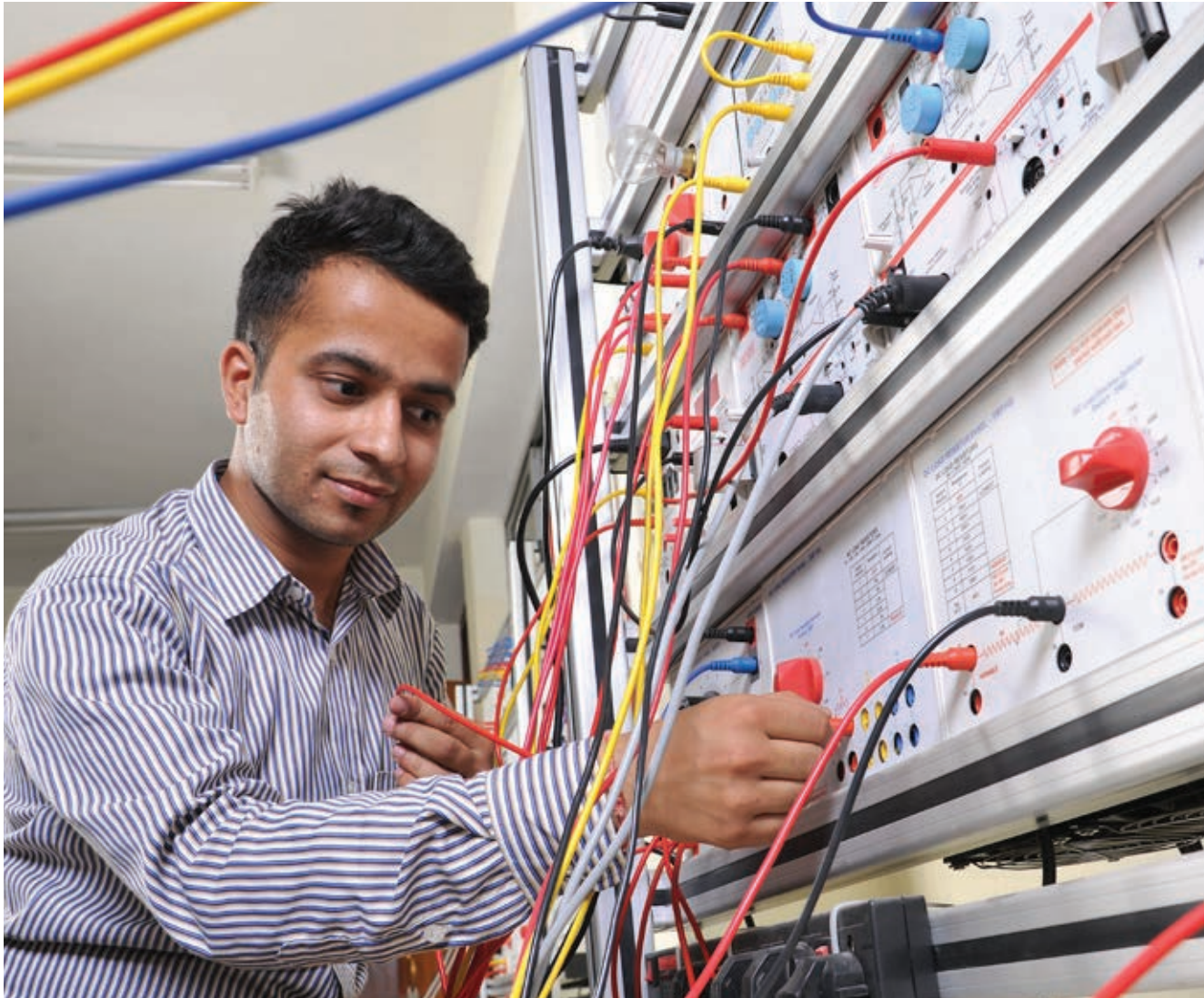**Bachelor's Degree in Computer Engineering**
(Intake: 48)

Bachelor's Degree in Civil Engineering
(Intake: 96)

Bachelor's Degree in Architecture
(Intake: 48)

Bachelor's Degree in Computer Science and Information Technology
(Intake: 48)

Bachelor's Degree in
Electronics and Information Engineering

Bachelor's degree in Electronics and Information Engineering is a four-year (eight semesters) program with core and elective subjects accompanied by project works. The proposed courses for this program include: Communication System, RF and Microwave, Antenna and Propagation, Microprocessor, Electronics Device and Circuits, Digital Logics, Artificial Intelligence, Database management System, Operating System, Computer Programming and Object oriented Programming. This course aims to provide the solid foundation necessary for the students to embark on a successful career in Electronics Engineering, Information Systems, Networking, System Administration, Software Development and Multimedia Computing fields. Popular and professional technical training programs are integrated into the major structure. The strong knowledge gained in this major structure prepares graduates for further studies or employment in a wide range of economic sectors like technology, business, banking, finance, and trading in Nepal, Asia and beyond.

The Department assists students to learn these subjects through lectures, laboratory works and presentations. It also schedules field visits for students in different semester at sites like Radio station, Nepal Telecommunication Company, Satellite Station and Hydro Power Station to ensure the learning by doing. Total intake capacity for this programme at HCOE,TU is 48.

Course Objective

>> To produce highly competent professional in the field of Electronics, Communication and Information Engineering

>> To Enhance the analytical and problem-solving capability of the students to handle current issues in Electronics, Communication and Information Engineering

>> To provide specialized knowledge to the students in Technical aspects of Electronics and Information Engineering and automation

>> Develop professional skill in students to make them capable of carrying out sound knowledge in Electronics, Communication and Information engineering

Career prospect

Information Technology is amongst the areas that Nepal Government has identified for focused support to develop it faster in Nepal. In each and every sector like banking, finance, business services, trading, legal and public administration sectors, people with a solid background in technology are in great demand in this increasingly complex technological age.

Some of the Sectors where Electronics and Information Engineers can work:

>> Consumer Electronics manufacturing companies
>> Telecommunication Companies
>> Telecom Vendors
>> Hospital and Medical Institutions
>> ISPs
>> Civil Aviation
>> Hardware Design and production Industries
>> Software Companies
>> Academic Intuitions
>> Government Offices
>> ICT Industries

Note: Details of syllabus will be provided once it is available from IOE, TU.

> **"** Electronics Engineering is a fascinating field and one which could make your time challenging, enriching and rewarding experiences.
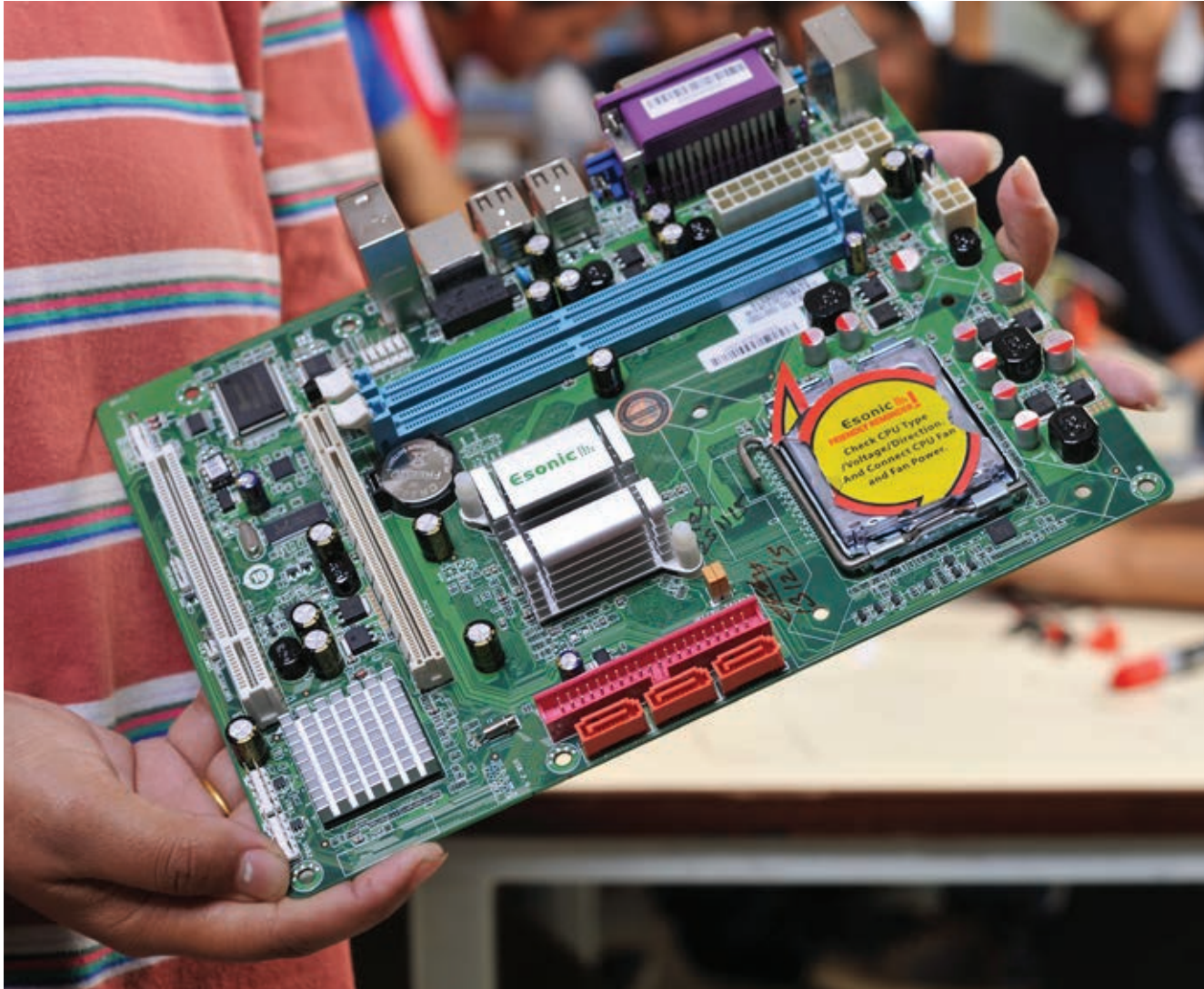>
> Decision for shaping your future and making it bright is most important thing. Quality of education, supportive environment and proper guidance are some of the salient features of HCOE. I'm sure HCOE will make me capable to achieve my goal. I'm glad to be part of HCOE. **"**

Rajesh Raskoti
2073/BEX/09
IOE Topper (2nd Semester)

Er. Ashok G.M,
MSc in Information System Engineering
HOD, Electronics and Computer Engineering

Bachelor's Degree in
Computer Engineering

Bachelor's degree in Computer Engineering is a four-year (eight semesters) program with 50 core and elective courses with laboratory works and field visits. Computer Engineering is a discipline that integrates several fields of electrical engineering and computer science required to develop computer hardware and software. It also deals with the design and development of computer systems and other technological devices.

Computer Engineers design, develop, and test systems and components such as processors, circuit boards, memory devices, networks and routers. They also develop and train computer programming languages (software) that include Operating system, application (word processing, spreadsheets, graphics, CAD, CAM, audio, video, media and games).

The department assists the students to learn these subject through lectures, laboratory works and presentations. Department also schedules field visits for students in different semesters at sites like Radio Nepal, Nepal Telecom, satellite station, and hydro power station to boost up the students' knowledge level. Total intake capacity of this programme is 48.

Career in Computer Engineering

Computer Engineers are in high demand in different sectors where computer systems are implemented. They have options of moving into hardware or software positions of blending the two. Computer Engineers

are employed as software engineer, hardware engineer, system analyst, database administrator, system developer, software programmer, network administrator, software architect, GUI developer and web programmer.

Some of the sectors where computer engineers can work are:

>> Software Designing and Developing Companies
>> Internet Service Providers
>> Banks
>> IT Industries
>> Manufacturing and Production Industries
>> Telecommunication Service Providing Companies
>> News Broadcasting companies
>> Government Offices

Course Structure (COMPUTER ENGINEERING)

I Semester
Engineering Mathematics I
Computer Programming
Engineering Drawing I
Engineering Physics
Applied Mechanics
Basic Electrical Engineering

II Semester
Engineering Mathematics II
Engineering Drawing II
Basic Electronics Engineering
Engineering Chemistry
Fundamentals of Thermodynamics and Heat Transfer
Workshop Technology

III Semester
Engineering Mathematics III
Object Oriented Programming
Electric Circuit Theory
Theory of Computation
Electronic Devices and Circuits
Digital Logic
Electromagnetics

IV Semester
Applied Mathematics
Numerical Methods
Instrumentation I
Data Structure and Algorithms
Electrical Machines
Microprocessors
Discrete Structure

V Semester
Communication English
Probability and Statistics
Software Engineering
Data Communication
Instrumentation II
Computer Graphics
Computer Organization and Architecture

VI Semester
Engineering Economics
Embedded System
Object Oriented Analysis and Design
Database Management Systems
Artificial Intelligence
Operating System
Minor Project

VII Semester
Project Management
Organization and Management
Energy, Environment, and Society
Computer Networks
Distributed Systems
Digital Signal Analysis and Processing
Project (Part A)
Elective I

VIII Semester
Engineering Professional Practice
Information Systems
Simulation and Modelling
Internet and Intranet
Project (Part B)
Elective II
Elective III

> The four golden years till graduation are almost coming to an end and my stance on picking this college is as strong as when I first decided. The most I'm proud of is the administration's support and encouragement to let us students handle the responsibility in either educational or entertainment purposes which has been a remarkable boost to our leadership skills and overall personal development. I've always found the teachers to be encouraging and practical. We have been through thick and thin, and the department has supported us throughout these times, including meet ups with major companies and policy makers. To sum up, there is plenty of opportunity to learn and grow here for those who can seize it.

Madhu Nyoupane
2071/BCT/24
Semester Topper (All)

> Computer Engineering exists at the intersection of technology and innovation. A dynamic professional field, computer engineering offers different career path in both hardware engineering and software development. Being a part of HCOE as a Computer Engineering student is great with extremely supportive atmosphere, proper guidance and professional faculties. All we need is our dedication, passion and hunger for success then HCOE provides the best platform and guidance to achieve best height and success.

Ashish Neupane
2073/BCT/06
Semester Topper (2nd Semester)

Bachelor's Degree in **Civil Engineering**

Bachelor's degree in Civil Engineering is a four year (eight semesters) course aimed for building infrastructures for the development of the nation. It mainly deals with the design, construction and research in its respective field. Nepal lies in an area where seismic activities and other natural disasters like landslides, floods and adverse effect of climate changes pose threat for the development of infrastructure. Hence this field of engineering has challenges to mitigate those effects. Increasing trend of urbanization needs to be addressed through proper planning, design and construction of water supply system, sewerage, roads and highways to cope up with rapid infrastructure development of the nation. This has become more contextual in the sense that our country is in the need of huge reconstruction in aftermath of earthquake and this obviously has led to the demand of good number of dedicated and industrious Civil Engineers. A Civil Engineering degree, often addressed as mother of all engineering, is a highly diverse and numerate degree that provides an opportunity to serve the nation and is also a passport to any analytical career. Total intake capacity of this programme is 96.

Career in Civil Engineering

The Civil Engineering graduates have the prospective career opportunity at different private and public arena in national to international levels. They can work as:

- >> Governmental Officer
- >> Consultant
- >> Construction Expert
- >> Academician
- >> Researcher
- >> Entrepreneur
- >> Designer
- >> Project Manager

> *It Is my immense pleasure to become a part of HCOE family as a Civil Engineering Students. Highly Qualified teachers, well equipped lab along with the friendly environment boosted my confidence and provided me platform to show my capabilities. Better IOE results every year in each semester has proven that it is one of the best engineering college. So I suggest you all to join HCOE and make your future bright.*

Prajwol Narayan Shrestha
072/BCE/045
Semester Topper (3rd and 5th Semester)

Er. Hari Lal Kharel
MSc in Water Resource Engineering
HOD, Civil Engineering

Course Structure (CIVIL ENGINEERING)

> HCOE is an ideal place for ambitious, curious and enthusiastic people who long to move out of comfort zone and shape their innovative thinking. A young, dynamic and committed team of faculty members under the guidance of very senior professors, works enthusiastically to undertake teaching and research activities. well equipped laboratories, big libraries and friendly atmosphere have encouraged me to reach this level. I am grateful to HCOE and highly recommend this institute to fresh learners.

Anuradha KC
2071/BCE/09
Semester Topper (1st, 2nd, 5th and 7th Semester)

I Semester
Engineering Mathematics – I
Computer Programming
Engineering Drawing I
Engineering Chemistry
Fundamental of Thermodynamics and Heat Transfer
Workshop Technology

II Semester
Engineering Mathematics – II
Engineering Drawing II
Basic Electronics Engineering
Engineering Physics
Applied Mechanics
Basic Electrical Engineering

III Semester
Engineering Mathematics III
Applied Mechanics (Dynamics)
Strength of Materials
Engineering Geology I
Fluid Mechanics
Surveying I
Civil Engineering Materials

IV Semester
Theory of Structures I
Hydraulics
Surveying II
Soil Mechanics
Probability & Statistics
Building Drawing
Engineering Geology II

V Semester

Numerical Methods
Theory of Structures II
Foundation Engineering
Survey Camp
Water Supply Engineering
Concrete Technology and Masonry Structure
Engineering Hydrology

VI Semester

Communication English
Design of Steel & Timber Structure
Building Technology
Engineering Economics
Sanitary Engineering
Transportation Engineering I
Irrigation & Drainage Engineering

VII Semester

Project Engineering
Design of RCC Structure
Transportation Engineering II
Hydropower Engineering
Estimating & Costing
Elective I
Project (part I)

VIII Semester

Computational Techniques in Civil Engineering
Engineering Professional Practice
Technology Environment & Society
Construction Management
Project (Part II)
Elective II
Elective III

Bachelor's Degree
in **Architecture**

Bachelor's degree in Architecture, started in 2066, is a ten-semester, five year academic programme. With 62 core and elective courses, the programme intends to produce qualified architects in urban planning, interior design, landscape design and building design. It is based on teaching, practice and research conducted on studio based learning. The classes, field visits and lab woks are conducted by extensive professionally experienced full time and various visiting faculties compromising of practicing architects, senior faculties from Institute of Engineering, senior government officers and professional artists. After the completion of study, the students will work also as consultant architects for national and international organizations. The total intake of students in this program is 48.

The courses are conducted through architectural exhibition, regular field visits, studio works.

Career in Architecture
After completion of B. Architecture degree, architects involve in design firms, construction companies, academic institutions, building construction and industries as

>> Design Architect
>> Interior Designer
>> Product Designer
>> Project Architect
>> Conservation Architect
>> Free Lancing Architects/Consultants
>> Project Manager/ Construction Management
>> Government Officer (Ministry of Urban Development) Municipal Offices
>> NGO and INGO

Ar. Umesh Dhimal,
M Architecture
HOD, Architecture

Course Structure (ARCHITECTURE)

> Architecture has helped me perceive the surrounding in or out in a unique dimension. It has a wide field of vision that not only includes buildings but also art, history, psychology, economy to name a few. HCOE has a team of experienced mentors who guides us through the journey of a hustle between projects/classes and leads us towards the path of being a jack of all. **'Architecture is a muse to one who has the passion to be a creator.'**

Shreya Thapa
2070/BAE/22
Semester Topper (6th Semester)

I Semester
Engineering Mathematics I
Applied Mechanics
Basic Design I
Introduction to Architecture
Building Materials I
Drafting I
Free hand Sketching I

II Semester
Engineering Mathematics II
Drafting II
Basic Design II
Art and Graphics II
Building Construction I
Free hand Sketching II
Basic Skill Workshop

III Semester
Design Studio III
History of Architecture I
Building Materials II
Building Construction II
Design Theory I
Building Science I
Structures I

IV Semester
Design studio IV
History of Architecture (Nepalese)
Building Construction III
Design Theory II
Structure II
Surveying

V Semester
Design Studio V
Contemporary Architecture
Computer-Aided Design and Drafting
Building Construction IV
Working Drawings
Building Services I
Building Services II

VI Semester
Design Studio VI
Urban and Settlement Planning
Building Science II
Structures III
Specifications
Estimating and Costing
Building Economics
Sociology

VII Semester
Professional Training (Practicum)

VIII Semester
Architecture Conservation
Design Studio VII
Construction Management
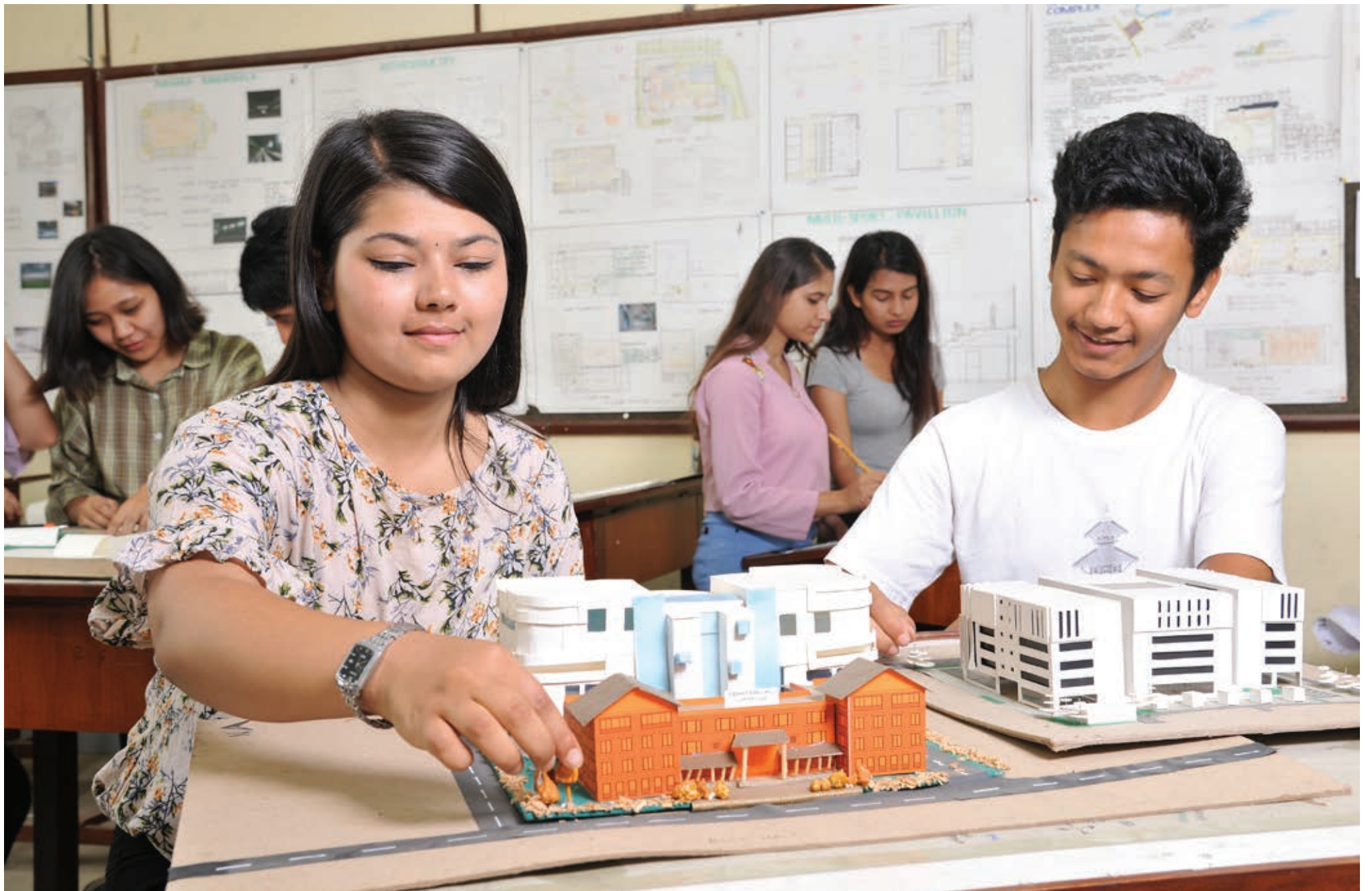Communications (English/ Nepali)
Structures IV
Elective I

IX Semester
Seminar and Directed Studies
Design Studio VII
Landscape Design and Site Planning
Professional Practice
Thesis Proposal and Research
Elective II

X Semester
Thesis Design

BSc CSIT

Bachelor's degree in science in Computer Science and Information Technology (BSc CSIT) is four years (eight semester) course affiliated to Tribhuvan University (TU). The course is designed to provide the students with knowledge in the information technology. The course is highly acceptable and demanding to the nation and IT industries. This programme provides the students with theoretical and practical knowledge which will enable students to solve complex problem of the IT industry. The programme develops the underlying principles of both Computer Science and Information Technology and show how these principles can be applied to solve real world problems. This program develops the skill that is essential for both computer professional and IT manager. It offers intensive knowledge in the theory, design, and programming.

Career in CSIT

The BSc CSIT graduates have prosperous career opportunities at different government, private and public organizations. Especially they work as:

>> System Analyst
>> Programmer
>> IT officer/Manager
>> Network Administrator
>> Database Administrator
>> System Administrator
>> Software Developer
>> Web Developer
>> Project Manager
>> Information System Manager

Er. Himal Chand Thapa
MSc in Computer System and Knowledge Engineering
HOD, CSIT

Course Structure (BSC CSIT)

> In this era of technology, almost everything is operated through computers. So information technology is most demanding scope in my view. Alongside, as a CSITian, I am proud to be a part of Himalaya College of Engineering and in these two years, I have achieved so many things, the effective and efficient quality education, the facilities that are provided according the student's need and this is really helping me to make my vision into reality.

Sandhya Gyawali
2073/CSIT/35
Semester Topper(1st, 2nd Semester)

I Semester
Introduction to Information Technology
Fundamentals of Computer Programming
Probability and Statistics
Calculus and Analytical Geometry
Elective (any one): Physics I, Biology I, Geology I, Statistics I

II semester
Digital Logic
Discrete Structure
Microprocessor
Data Structures and Algorithms
Linear Algebra
Elective(any one): Physics II, Biology II, Geology II, Statistics II

III semester
Computer Architecture
Object Oriented Programming
Operating Systems
Numerical Method
Introduction to Management

IV semester
Theory of Computation
System Analysis and Design
Database Management System
Computer Graphics
Introduction to Cognitive Science
Technical Writing

V semester
Computer Networks
Simulation and Modeling
Design and Analysis of Algorithms
Artificial Intelligence

Elective (any one): Microprocessor Based Design, Applied Logic, E-Governance, Concepts of Wireless, Networking, International Business Management, International Marketing, Computer Hardware Design, Introduction to Cryptography

VI semester
Software Engineering
Complier Design and Construction
Web Technologies
Real Time System
Elective (any one): Fundamentals of E-Commerce, Society and Ethics in Information Technology, Automation and Robotics, Digital System Design, Web Centric Computing, Net Centric Computing, Embedded System Programming, Image Processing

VII Semester
Advanced Database Management System
Internet Technology
Advanced Java Programming
Project work
Elective (any one): Information Retrieval, Database Administration, Network and System Administration, Software Project Management

VIII Semester
Data Warehousing and Data Mining
Internship, Elective (any two): Decision Support System, Geographical Information System, Cloud Computing, Distributed and Object Oriented Database, Multimedia Database, Network Security, Distributed Networking, Advanced Networking with IPv6

Teaching Approach

TEACHING FACILITIES

HCOE lays emphasis on quality and practical education. In order to meet this objective, the college has highly qualified and experienced faculty members for all the programmes. The faculty members of HCOE have long teaching experience and the visiting facility earned a wide range of work experience from reputed national and international engineering Colleges and universities. The College frequently arranges various seminars, workshops, and symposiums lectured by distinguished experts to broaden and enhance knowledge of students.

SCHOLARSHIPS AND AWARDS

The College awards scholarship to 10 percent of the students of total enrolment in all the programmes. The College also provides partial scholarship to few meritorious and intelligent students in some subjects.

ADMISSION PROCEDURE

Students who have passed the entrance examination conducted by IOE are eligible for admission at HCOE. Students having a minimum score of 45% in I. Sc. or 10+2 with 200 math paper or Diploma in Engineering or an equivalent course recognized by TU can appear in the entrance examination.
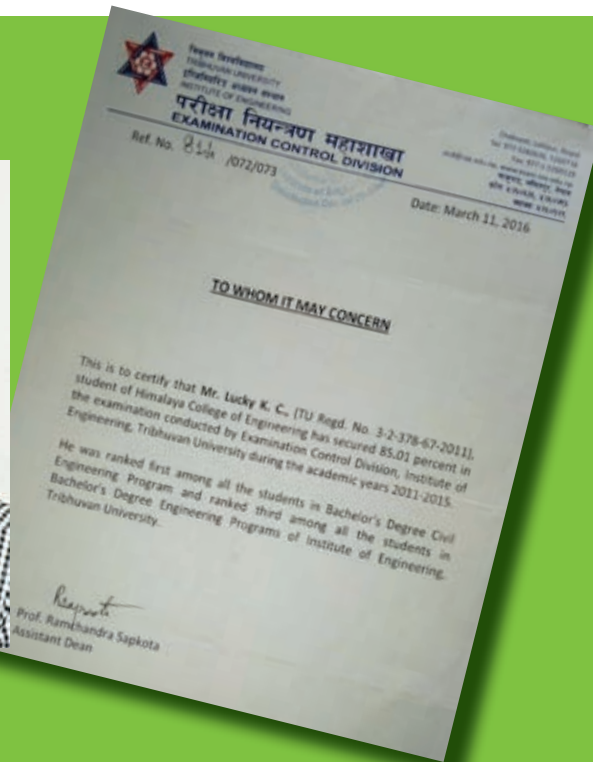
The eligible students have to fill up the online form available at the website http://entrance.ioe.edu.np or www.ioe.edu.np and have to appear in a two hour computer based examination. Following are the subjects for the examination: English, Mathematics, Physics, Chemistry, Basic concept of drawing.

Successful students are admitted on the merit basis. They have to fill up the college admission and will be admitted with commitment to college rules and regulation.
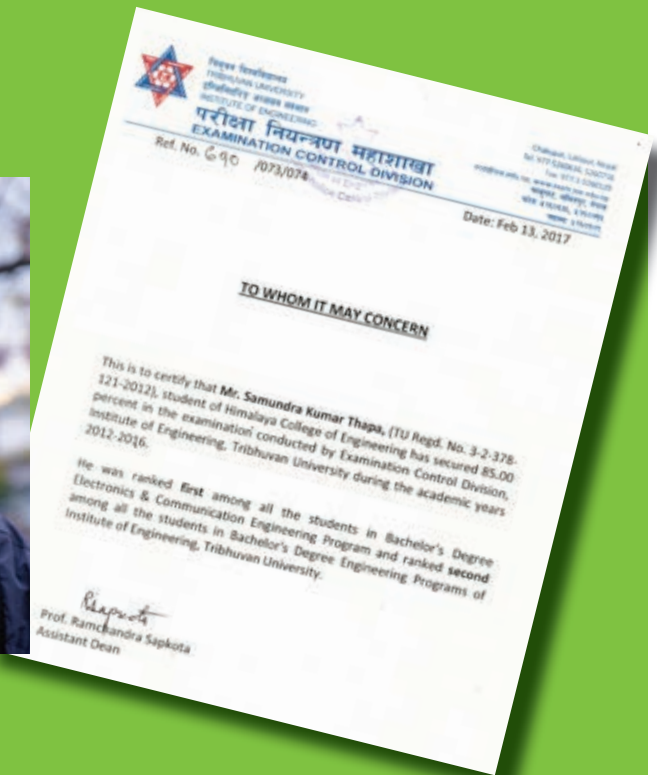
CLASS SCHEDULE

The academic programmes in HCOE run in the morning shift from 7:00 AM to 2:00 PM and from Tuesday to Sunday. Monday is the regular holiday. However, the college administration opens up to 5:00 PM to facilitate the students, stakeholders, governmental and non-governmental officials. The field visits, survey practical classes, seminars, trainings, workshops, extra classes etc. may run beyond these official hours.

HCOE's Achievers

From my first day at HCOE, it has always been an ocean of knowledge, where I had satisfied my thirst. The profound resources, may that be materials for the well-equipped lab or books on the shelves of library or the ideas shared by the staffs, it has always given me enormous amount of knowledge and opportunity, and shown me the right path to be an Engineer. The road to be an Engineer was not easy, but with the facilities and highly experienced staffs I was able to carve the path easily.

Er. Lucky K.C.
IOE Topper in Civl Engineering
Academic Year 2011-2015
(Master in Civl Engineering at University of Toledo, USA)

It was a great opportunity for me to be part of HCOE to shape my dream. I indeed had best memorable period in HCOE, both academically and practically. I know I spent just four years but what I have gained there, was definitely a high boost of my life. I can proudly say that HCOE empowered me with a knowledge and a good vision for my successful years for life ahead.

Er. Samundra Kumar Thapa
IOE Topper in Electronics and Communication Engineering
Academic Year 2012-2016
(Graduate Research Student at the School of Engineering, University of Tokyo, Japan)

With a blurry picture of being the Architect since school days, exactly after my +2 HCOE start enrolling first batch of architecture. There was no better option or rather opportunity for a guy holding averagely marked certificate. I admitted at once.

Five years of taking architecture seriously, mentored by inspiring teachers, I remember our yearly growing department and library adding reference books one by one. It was always witnessing growth that kept hope. We could undoubtedly take this school as rare place in our lives. That has inspired so much love and hate, competition and companion, stress and reliefs, ego and altruism which on only one would be truly boring yet together and simultaneous they form complex, rich and powerful time. Looking back from now, it was all that precious learning that structured our thoughts and action to become what we are today.

I encourage and welcome to this viscous faculty and celebrate the intensity. Take with soul, think independently and express whole heartily. Let your subject take over you. Let's sink and embrace.

Ar. Suman Limbu
Architect
Arc Himalaya Services Pvt.Ltd

HCOE has been a pioneer in offering highly qualified faculities ,well managed labs, adequate infrastructures and library materials. In my Four year attachment with HCOE as a student, I received immense support, guidance and different opportunities by the college. HCOE has helped me a lot to get where I am now and I am glad to be a part of it . HCOE is one of the leading colleges in the field of engineering and offers serene and friendly environment with excellent facilities and enthusiastic teachers. DREAM BIG AND HCOE WILL MAKE IT HAPPEN.

Er. Shristi Bhattarai
(BCE 2069 BATCH)
(DOLIDAR)

Challenges are what make life interesting and overcoming them is what makes life meaningful. A college provides opportunities for education, knowledge, inspiration, hands-on experience and a way to the bright future. Himalaya College of Engineering provided me such a support, good environment, and knowledge generating skillful relationship among friends and college management which helped me to achieve the success.

Er. Pratap Sapkota
Computer Engineer, NTC
2062 Batch

Hello and namaste. I am Kushma thapa, working as a Senior Software Engineer at Verscend Technologies. I joined HCOE in 2010. I am the 2066 batch. When I was a fresher, like many I was overwhelmed with the course and content and failed at times. But with the guidance and support from my teachers and with sincerity and focus I gradually overcame it. Courses like DSA, DBMS, OOAD, C++ and C, EADD etc and the extra training classes on JAVA, .NET and PHP groomed me to get my dream job.

Er. Kushma Thapa
Senior Software Engineer,Vercend Technologies
2066 Batch

Physical Facilities

The college has its own seven storey building having plinth area of 6,500 square feet for academic program. There are three other college buildings and two hired buildings for labs, workshops, project works and cafeteria in the area of 24 Ropani. These buildings have sufficient space for class rooms, labs, workshops, offices, seminar hall and research centre. The college has indoor and outdoor game facilities and student-centered activities. A hall with an area of 3200 square feet can accommodate 250 students for ECA programme.

LIBRARY

HCOE's library has a huge collection of text books, references books more than 22,000 and course manuals and reports about 4,000. It subscribes to various newspapers, magazines, and national and international research journals for its different departments. The new books are regularly added in the library. The library provides books to students under the book bank system and regular renewing system. The HCOE library uses library software and provides services by e-library to the students.

LABORATORY

HCOE has developed fully equipped laboratories of all disciplines. These have large number of modern equipment and instruments as laid by IOE and NEC. Some labs such as physics, chemistry, thermodynamics etc. are shared in common by all programmes while some are specific labs. The equipments are regularly maintained and new ones are added regularly.

PHYSICS LAB

The college has well-developed physics lab with a darkroom.

CHEMISTRY LAB

The chemistry lab is spacious and well equipped with latest instruments and apparatus.

WORKSHOP LAB

Workshop is segregated into machine, welding, sheet metal and carpentry. The carpentry lab is designed for the students of Architecture for wood works.

ELECTRICAL LAB

Electrical lab, fully equipped with highly sensitive instruments, is shared by all the programmes for basic electrical engineering, electrical machines, instrumentation and control system. The college is going to developed power lab and switch gear protection for the proposed programme of BE Electrical Engineering.

ELECTRONICS LABS

The five electronic engineering labs in the college are basic electronics, advanced electronics, communication system, digital electronics and project lab. These are equipped with latest instruments. The labs are updated as the technology changes to provide latest information in the concerned field.

COMPUTER LABS

The college has seven computer labs for computer engineering and CSIT and also shared by other programmes. Each lab consists of 30 computers which are equipped with latest high-tech computing facilities and fully supported by suitable application software.

High speed internet and intranet facilities are available in the labs.

CIVIL ENGINEERING LABS

Civil Engineering programme has different labs on civil engineering materials, strength of materials, fluid mechanics and hydraulic, structure, soil mechanics, water supply engineering, engineering geology, concrete technology, environmental engineering, transportation engineering and hydropower engineering lab.

SURVEYING LAB

This lab has fully equipped with modern and latest instruments used for civil engineering and architecture programme.

VISUAL SKETCH LAB

This lab is designed for architecture programme where the visual sketching on monumental objects is done.

CAFETERIA

Cafeteria is available within the college premises. It serves breakfast, lunch and various bakery products at reasonable costs. It serves a variety of hygienic food.

SPORTS

Every year, a sport week is conducted in the college in which many students participate. The college has basketball, badminton and table tennis courts within the college premises. Outdoor games like football and cricket are played on ANFA football ground, Chyasal and cricket ground in the valley respectively. Students regularly participates on sport events organized other colleges.

TRANSPORTATION

The college provides transportation for students to site visits, field works, and study tours on college buses or vehicles in hire. As the college is located in an easily accessible place, most of the students use public transportation. However, the college is planning to provide bus services for students and faculty members in future.

INTERNET

Students are facilitated by high speed, 30 mbps, online browsing of the internet in the college. The computer laboratories provide the internet service throughout the college hours and 24 hours during project works.

GUIDANCE AND COUNSELING SERVICES

This unit looks after the welfare of students, collective as well as individual, which requires correct and prompt addressing for the overall efficiency of the students. This department was established to address the situation and help students concentrate on studies as their primary task.

JOB PLACEMENT SERVICES

The college tries to bridge the students to the industries by producing capable candidates. As per previous practices, many students have shown high professional strength. So, counseling and follow up services are more applicable for the students. HCOE has made MOU with Finishing School, India, National School of Skill Development, India and TOYO works Company Ltd., Japan for placement of the graduates.

RESEARCH AND PROJECT WORK

The college encourages the students for research work. Individual student start research work from the very beginning, and finally undertake project work. HCOE encourages its faculties also for research and development. Many research works are conducted by Kathmandu Model Research Foundation, which is partner of the network.

SEMINARS, WORKSHIPS AND TRAININGS

Himalaya College of Engineering offers ample number of out of course trainings at different departments. The aim of this activity is to develop knowledge and skills in recently emerging technologies and programing languages on students that help in their project works and academic courses. These trainings help the students to explore the theoretical knowledge via physical devices as well as simulation and in professional career.

Trainings:

(Market untented training) We provide following trainings out of course.

Electronics and Communication Engineering

- Basic Hardware Troubleshoot and Design
- AVR and ARM
- Arduino and Raspberry PI
- FPGA
- Python and Machine Learning
- CCNA and Network Administration

Computer Engineering and CSIT

- HTML and CSS
- PHP
- JAVA
- C#
- Advanced JAVA
- Android
- Python and machine learning
- Linux System Admin
- Oracle

Department of Civil Engineering

- SAP 2000 (Structural Analysis Programme)
- Smart Road (Road Design Software)
- GIS System
- AutoCAD (Engineering Drawing Software)
- Workshop on Water Supply
- Workshop on Retrofitting Techniques of Building Structure

Department of Architecture

- Sketch up Software Trainings for Third year II-part student
- Photoshop Training for Fourth Year II part

Interterraction with Distinguished Personalities

His Excellency Roland Schafer
Ambassador of the Federal Republic of Germany to Nepal

Er. Sandra Magnus
(former NASA astronaut)

Academic-Industry Interface Programme

The college has started this program to bridge the gap that exists between academia and industry. Series I of this type was organized on January 2018 at Hotel De'L Annapurna, Durbarmarg with Federation of Contractors Association of Nepal and Series II was organized on 20th June 2018. at Hotel Yak & Yeti, Durbarmarg. We are taking measures to accommodate the demand of the industry by providing additional trainings and have interacted with higher officials to TU for possible course revision.

His Excellency Benny Omer
Ambassador of the State of Israel to Nepal

Prof. Dr. Sudha Tripathi
Rector, Tribhuvan University, Nepal

Why Himalaya College of Engineering ?

- Amicable teaching learning environment Highly experienced and professionally committed faculties
- Well-equipped labs and well-stocked e-library
- Use of multimedia, audio and visuals in teaching
- Easy location, accessible from the all directions
- TU affiliated programs with worldwide recognition
- Number of IOE Semester toppers in different programs
- Access of high speed Wi-Fi zone Provision of various scholarships
- Individual students encouraged to undertake various learning activities
- Seminar, workshop and training in regular basis
- Engineering design related training at regular basis
- College supports for the innovative extra-curricular activities
- High successful rate in employment of its graduates.
- Dynamic and ever success Robotics Club

Team Himalaya

Himalaya Exhibition 2018 (HEx-2018)

Himalaya Exhibition 2018 (HEx-2018) was successfully conducted in 2018 in the college premises from 29th June to 1st July, 2018. Similar exhibition is going to be held in this year. Students in these exhibitions participated with great enthusiasms and demonstrated their skills on various projects. The exhibition included events in Civil Engineering, Electronics & Computer Engineering, IT and Architecture. More than 10,000 visitors observed the exhibition. The visitors were engineering students as well as students of school and science (10+2), guardians, professional industries, construction companies, consulting firms, software/ hardware design and development companies.

Student Clubs in HCOE

ASTHA

Architectural Students of Himalaya (ASTHA), established in 2068, is a students' organization founded by the architecture students of Himalaya College of Engineering, with a sole purpose to boost interaction, co-operation, creative and leadership skills of students.

ASTHA helps in cordial relation among the students and provides various opportunities through active participation in national and international programs. It organizes different workshops and exhibits ASTHA Architectural Exhibition (AAE) annually. ASTHA Exhibition collaborated with other faculties is played a leading role in organizing Himalaya Exhibition 2017.

Himalaya Information Technology Club (HIT Club)

Himalaya Information Technology Club (HIT Club), established on 2017, is a students' society of student of computer Science and information technology (CSIT) in Himalaya College of Engineering. It addresses developing technological needs of the students as well as provides technical assistance. The club is providing extra practical knowledge besides syllabus materials and a platform for the students to enhance the skills.

The team members of the club are students who are guided by capable faculty members. The main goal of HIT Club is to assist the students in every aspects and encouraging them to achieve their goals.

Himalaya Civil Club

Himalaya Civil Club (HCC), established on 2068, is an active students' society of Himalaya College of Engineering developed as the platform for civil engineering students to enhance their creativity and career development skills.
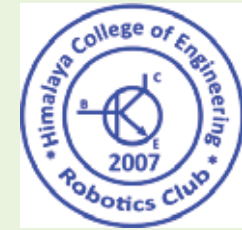
HCC organizes various events like Civil Quiz, seminar, training, workshop, inter-college exhibition. HCC also publishes a yearly students' magazine which contains articles with special supplement of journals, research papers, inventions and similar informative articles related to civil engineering.

Himalaya Electronics and Computer Club

Himalaya Electronics and Computer Club (HECC), established on 2017 AD, is an active students' society of Himalaya College of Engineering founded as the platform for electronics and computer engineering students to enhance their creativity and career development skills. It provides an opportunity for the students to keep themselves updated with the latest advancement in technology through the club activities.

HECC organizes various events like training, seminar, workshop, interactive talk shows etc. A technical quiz, a technical workshop on "Introduction to Aurdino" and a workshop on "PHP Training" for computer and electronics engineering students were held this year. HECC along with other student clubs have organized an inter-college grand event, Himalaya Exhibition 2018.

ROBOTICS CLUB
Robotics club of Himalaya College of engineering was established in 2007 A.D. , which includes students mainly from Electronics & Computer Engineering department and partially form others. Robotics club organizes various events like workshop, training, and seminar on existing and latest technology. This year the club provides 3 days' workshop on "Arduino". Robotics club also participated in a different competitions like automatic akhada, manual akhada and other competition organized by different Engineering college. HCOE Robotics club achieved 2nd runner-up position in automatic akhada organized by RAN this year. Robotics club with other four clubs have completely organized inter-college grand event HEX 2018(Himalaya Exhibition).HEX 2018(Himalaya Exhibition).

KMC Educational Network

KMC Educational Network is a network of educational institutions in which more than 10,000 students study at present. The first institution, Kathmandu Model College (KMC), was established in 2000 AD and since then, more institutions have been introduced. The network conducts education from school level to post graduate level such as BBA, BSW, BBS, BA MA (English), MBS. Since May 2009, Himalaya College of Engineering, affiliated to TU, has come under the umbrella of KMC network. In a few years' span of time KMC Educational Network has become a top-ranking institution in the nation. The network has following member institutions.

KATHMANDU MODEL SECONDARY SCHOOL
Bagbazar, Kathmandu
Tel: 4242121, 4242015
ktmmodelcollege.edu.np

+2 Science / Management / Humanities

KATHMANDU MODEL COLLEGE
(Affiliated to Tribhuvan University)
Balkumari, Lalitpur, Nepal
Tel: 5201331, 5201334
kmcen.edu.np

BBA / BBS / BSW / BA / MBS / MA (English)

KMC School
Buddhanagar, Kathmandu
Tel: 4787111, 4782016
kmcschool.edu.np

Play Group to Grade X

HIMALAYA COLLEGE OF ENGINEERING
(Affiliated to Tribhuvan University)
Chyasal, Lalitpur
Tel: 5540555, 5547266
hcoe.edu.np

BE: Civil, Computer, Electronics and Communication
B. Architecture
BSc. CSIT Bachelor's of Science in Computer Science and Information Technology

Apollo International College (AIC)
AFFILIATED TO POKHARA UNIVERSITY
Lakhechaur Marg, New Baneshwor, Ktm.
Tel: 4474845, 4474851
appollointcollege.edu.np

BBA / BBA-BI / BHM

NEWSUMMIT COLLEGE
(Affiliated to TU)
Shantinagar, Baneshwor, Kathmandu
Tel: 4620523, 4620524
newsummit.edu.np

BSc. CSIT / BBS

THE NEW SUMMIT SECONDARY SCHOOL
Maitidevi, Kathmandu
Tel: 4414431, 4442775
newsummit.edu.np

Play Group to Grade X
+2 Science / Management / Humanities / Fine Art

Marvellous English Boarding SCHOOL
Maitidevi, Kathmandu
Tel: 4428321, 4442775
mebs.edu.np

Play Group to Grade X

BUTWAL MODEL COLLEGE
(Affiliated to Pokhara University)
Padsari, Rupandehi
Tel: 071,-429192, 429193
butmc.edu.np

BBA | MPGD
BHM Masters in Population Gender and Development

NATIONAL SECONDARY SCHOOL
Balkumari, Lalitpur, Nepal
Tel: 5201331, 5201334
nationalcampus.edu.np

+2 Science / Management / Humanities / Law

UNIVERSAL College
(Affiliated to Tribhuvan University)
Shantinagar, Baneshwor, Kathmandu
Tel: 4620523, 4620524
uc.edu.np

BBA / BBS / BSW / BA / MA (English)

KATHMANDU MODEL RESEARCH FOUNDATION (KMRF)
Bagbazar, Kathmandu
Tel: 4242865
kmrf.org.np

Research Works

HIMALAYA
COLLEGE OF ENGINEERING
(Affiliated to Tribhuvan University)

> BE in Computer Engineering > BE in Electronics and Information Engineering > BE in Civil Engineering > Bachlor in Architecture > BSc CSIT

HIMALAYA
COLLEGE OF ENGINEERING

Under the Management of KMC Educational Network

(Affiliated to Tribhuvan University)

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