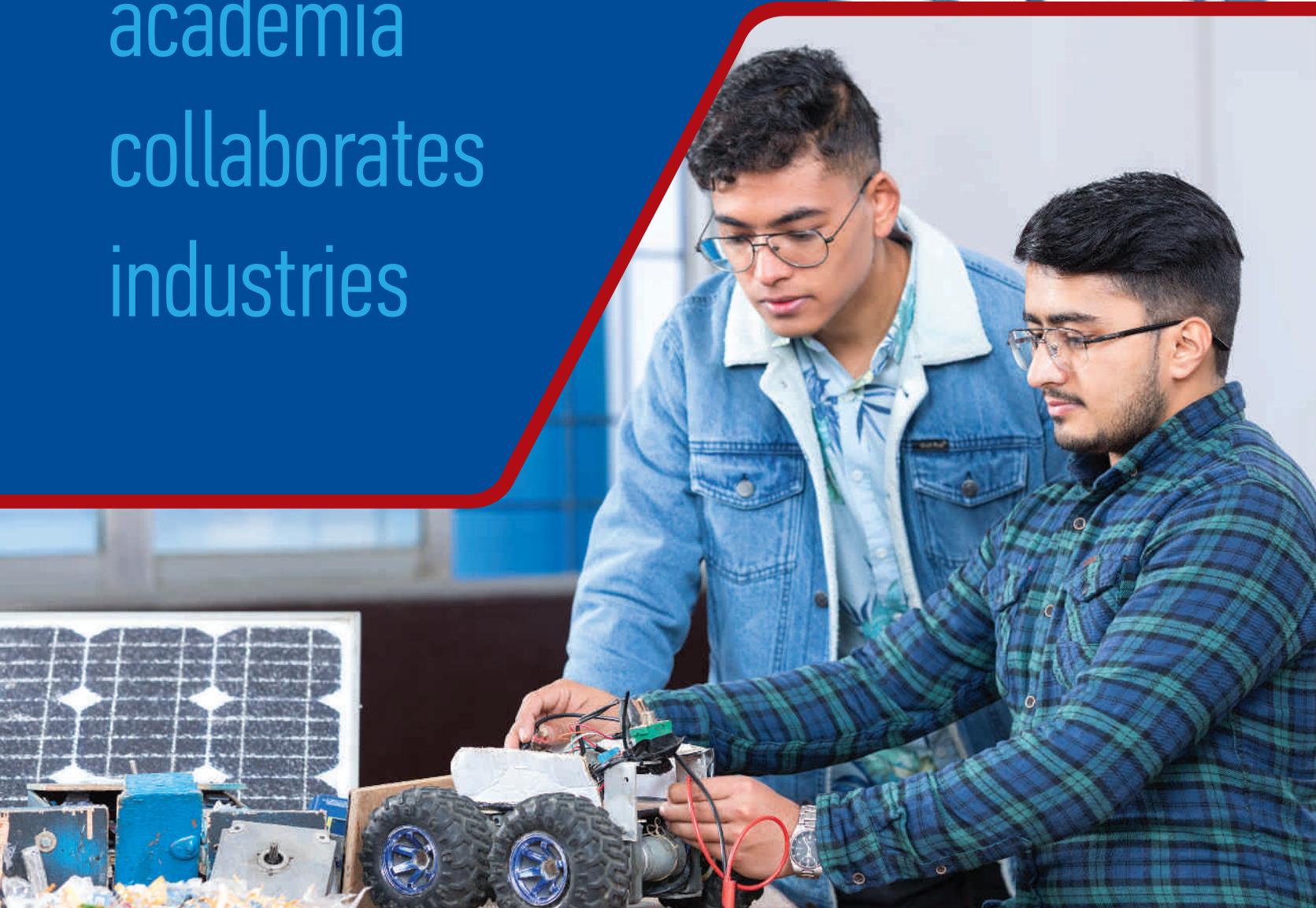


acem,
where
academia
collaborates
industries



BCE, BCT, BEL
BEI & BCA



**ADVANCED COLLEGE
OF ENGINEERING & MANAGEMENT**
Affiliated to Tribhuvan University (T.U.)

MESSAGE FROM CHAIRMAN

I take the pleasure in welcoming you to Advanced College of Engineering and Management (acem), an institute dedicated to the positive growth and development of each and every student for a better career prospect.

It has become of matter of a great pride of us to introduce acem in the present recognized form, as a center of excellence in engineering education with its core values of self-esteem, accountability and harmony. The integrated effort and contribution of the teachers, students, parents and all well-wishers have helped to raise the college to greater heights.

Living in the challenging time of this pandemic, we have all learned that there is no compromise that can make up for education and innovation. Hence, at acem, we aspire to equip our students with best possible education.

Robert Maynard Hutchins said that "The objective of education is to prepare the young to educate themselves throughout their lives". acem was established in 2000 AD with the same motto, where students will be able to grasp lifelong education.

We, the acem family are all set to bring out the potential within each student and provide proper guidance so that their potentials can be honed to make them future engineers, capable of meeting any challenge that will be faced by them after completing the college.

So let's join hands together for your better tomorrow.

Thanking you.

Ramesh Kumar Silwal
Chairman



"The objective of education is to prepare the young to educate themselves throughout their lives!"

Robert Maynard Hutchins



MESSAGE FROM **EXECUTIVES**

Over the years, Advanced College of Engineering and Management has created a niche for itself with its innovative courses and student centered teaching-learning, blending in academics and co-curricular activities. In 2000 AD, acem launched undergraduate engineering degree in Civil, Electronics and Information, Electrical and Computer programs that has produced many vibrant and promising engineers with skills to serve the ever changing technical, economic and social situation of our country.

Besides Engineering, this college has started Bachelor in Computer Application, which is one of the popular courses among the students who want to make their career in the IT.

At acem, in addition to education set in academic program, students will get education and research opportunities in cutting edge technology with special focus towards leadership and innovation, linking with industries both in national and international level. acem also builds links with peer universities and institutes, both at the national and the international levels, to enhance research and enrich its educational programs.

We at acem, welcome you to learning experiences that bridge the gap between theory and practice and lifelong learning for the real-life work environment. We wish great success to the students seeking admission at acem and promise to provide the best for their professional growth.

The world is yours to conquer.

Kapil Dev Regmi
Executive Director

Er. Lochan Lal Amatya
Principal





INTRODUCTION

acem is re-engineering its process, its delivery and overall pattern; bringing a big change to be able to lead any unprecedeted situation.

With a 20-year history of academic excellence and a rich array of traditions, acem is embracing the future as well as the past with a name and resolve to guide the students. In this 21st century, needs and wants of the society are changing rapidly due to rapid advancement of science and technology and their applications in daily life. From the very beginning of its establishment, acem has been rigorously working in fulfilling these changing demands. acem aims in producing academically qualified and technically sound engineering graduates through quality education.

acem has a team of highly qualified, experienced and dedicated faculty who devote their time not only to teaching but also for the overall development of the students. Further, faculty from other renowned institutions are invited to deliver guest lectures to help augment their studies beyond syllabus.

We are confident that the students passing out from this college will be technically sound, confident and have good leadership skills. Our graduates have a long and distinguished record in achieving outstanding results and have progressed to the most prestigious institutions either for professional career or research study whether it may be within the country or abroad.

acem has grown from strength to strength to emerge as one of the best colleges in the country. Our collective effort is orienting towards establishing this institution as a Center of Excellence in Engineering Education.





VISION & MISSION

VISION:

Our vision is to be one of the best technically innovative engineering colleges and prove oneself as a world-class institution in Nepal.

MISSION:

- ▶ Produce professionally competent, technically sound, proactive and ethical leaders who can manage the global workforce having diversified work groups with high adaptations to various cultures.
- ▶ Set acem ways of educational vibe to establish itself as a world class institution through continuing education, faculty and staff development and corporate research and consultancy.
- ▶ Develop long term relations with other national and international educational institutions, corporates, research organizations, government and non-governmental organizations to foster broad range of self-motivated learning environment.



EXTRACURRICULAR ACTIVITIES



Whether you'll be taking courses online or in the traditional or modern set classroom in college, becoming part of the college community can make a huge difference in how you feel about your entire experience while earning your degree. Pursuing a degree is the main goal when you enroll in a program, but the collegiate experience is about more than just what you learn in the classroom or discussion boards. acem believes in holistic development of all its students.

Connecting to the community, forming a group of friends and building relationships that go beyond the classroom are important. acem encourages the students to participate in various sports and extracurricular activities of student's choice. It has been proven that sports help to reduce the level of anxiety and depression in students, which in turn improves their mood. Hence, we encourage our students to participate in sports and extracurricular activities for their physical and mental health.

acem provides students with provision to explore their talents in various sports like basketball, football, cricket, futsal, volleyball, table tennis, badminton, tug-of-war, chess, and other extracurricular activities. Students are encouraged to participate in inter and intra college competition and this allows them to excel in their chosen sport.

RESEARCH & INNOVATION UNIT

Research committee plays a vital role in the further development of academic activities (including academic and research works) within the college, linking real life activities in research, in best possible ways. We encourage students to create interest in research and making it a part of life of students beginning from small scale research work to moderate level research works to future bigger projects to be accomplished. We work to strengthen the research culture through collaborative and interdisciplinary research for the benefit of the students, faculty and wider community.

Students also work together or individually to publish articles in journals on monthly, quarterly and annual basis. We constantly challenge our students in regular activities to bring out innovative outcome. Innovation- is an ongoing process and culture at acem. Our motive is to lead our students to entrepreneurship via Incubation center.

The college offers a conducive environment in which new ideas can be generated, researched, and nurtured before they become industry ready.





LIFE AT ACEM

Located in Balkhu, adjacent to the Ring Road, the students can reap the advantage of being in the centrally located area of the capital, while at the same time enjoying the serenity of a college known for its natural beauty and well-made infrastructure which has been developed with most modern equipment; provisions have also been made to upgrade the same keeping pace with the technological advancements of the time. We aim to make our students feel at home and comfortable in college premises.

While the academic curriculum forms a large part of the experience at acem, the college also offers a diversity of co-curricular and extracurricular activities that acem students are encouraged to participate in. This ensures that students get an all-round education and have a very active life, full of learning at acem. Students can join a variety of clubs as per their interest and participate in different events organized by the clubs.

PLACEMENT CELL

Placement Cell is a body at college linking students with the industries, assists in finding jobs to the needed students and prepares students for job market with necessary skills.

acem helps prepare and connect students to industries. There are a large number of organizations with which acem has strong relationship. acem also organizes round the year activities and job fairs and assists students by managing interviews with various organizations.

The achievements of our alumni having made their mark in all walks of life, over the world are a testament of our commitment to our vision and mission. The exposure provided at acem trains not just for technological superiority, but also for overall understanding of the world suitably shaping global careers for our students in the rapid changing arena.



INTERNATIONAL PARTNERSHIP

acem is committed to provide the best possible global experience to students. The world is going global and today more than ever it's important for us to know what is happening around the world. International partnerships are emerging as an important, perhaps central, element of global learning for all. These partnerships create a path toward a collaborative approach to global learning- an approach that engages faculty, students, and institutions by bringing and sharing cross cultural practices. acem has various international tie-ups like Stars Scholars Network. International collaborations will enable students to gain new perspective on research and build relationships with others, which can be key to career development.

CLUBS DIVERSITY AT ACEM

Experiencing Engineering at acem is experiencing life in the wider level. Students can be a part of these clubs based on their interests.

- i. Advance Robotics Club
- ii. Grow Entrepreneurs
- iii. Gamification Club
- iv. AI Club
- v. CESS (Civil Engineering Student Society)
- vi. AEES (Adv. Electrical Engineering Society)
- vii. PACE (Project Association for Computer & Electronics)
- viii. Living Lab
- ix. Cyber Defender's Club
- x. Engineers without Boarders
- xi. Readers' Club
- xii. Mix and Mingle Club
- xiii. The Flourish Club
- xiv. Learning Language Club
- xv. Go green Club
- xvi. Club Creative
- xvii. The Leaders' Club
- xviii. Toast Masters Club
- xix. The Healers' Club
- xx. The Athletes Club

INDUSTRY PARTNERSHIP

acem shares strong bond with various industries of Nepal from manufacturing to service sector mainly focusing to IT, Constructions, Hydropower and Robotics and Automation like ERMC (the biggest consulting group working internationally for World Bank, Asian Dev Bank and Nepalese Government Projects), World Link Communications (one of the largest Internet Service Provider of Nepal), e-Sewa (Strongest Digital Payment Service for Nepal), Leapfrog (Software company working for the USA), Stars Scholars' Network (International Academic Network based on USA), Federation of Contractors Association of Nepal (Association of Nepalese Contractors), Solu Hydropower (Biggest Hydropower Company of Nepal in Private Initiative), Kashmir World Foundation (Innovative Technology Solution Provider, USA), SICHER (IT consulting, product engineering, and training services provider, headquartered in Silicon Valley, California, USA), Fuse Machine (AI based IT company focusing Education in USA and Nepal), Goethe Institute, (A German Language Institute, Germany), Sheshkant Foundation (Engineering Work-Center, German and NRN Funded Project), BKol (A Class Construction Company of Nepal), Hama Group of Industries (Steel Manufacturer), Nepal Bank Limited (Oldest Financial Institution of Nepal), Robotics Association of Nepal (Drone and Robotics based Institution), Merojob.com (HR Company, Nepal), NREN (Nepal Research and Education Network, Nepal) to name a few. We develop networks between the public and private sectors – locally, nationally and internationally, bringing industries to classroom and taking classes to industries.

The placement opportunities of our students are quite bright as we organize Placement Mela via Placement cells which eases students for jobs interviews process and facilitates industries to find energetic fresher. We also provide counseling to students about placement opportunities and maintaining contact with all industrial organizations for further placement purposes.





PROGRAMS OFFERED

BACHELOR IN CIVIL ENGINEERING (BCE)

The civil engineering profession deals with a wide variety of engineering tasks including planning, designing, supervision, construction and maintenance of activities of public works like roads, bridges, buildings, water works, sewage systems, tunnels, airports, dams etc. and offers a multitude of challenging career opportunities.

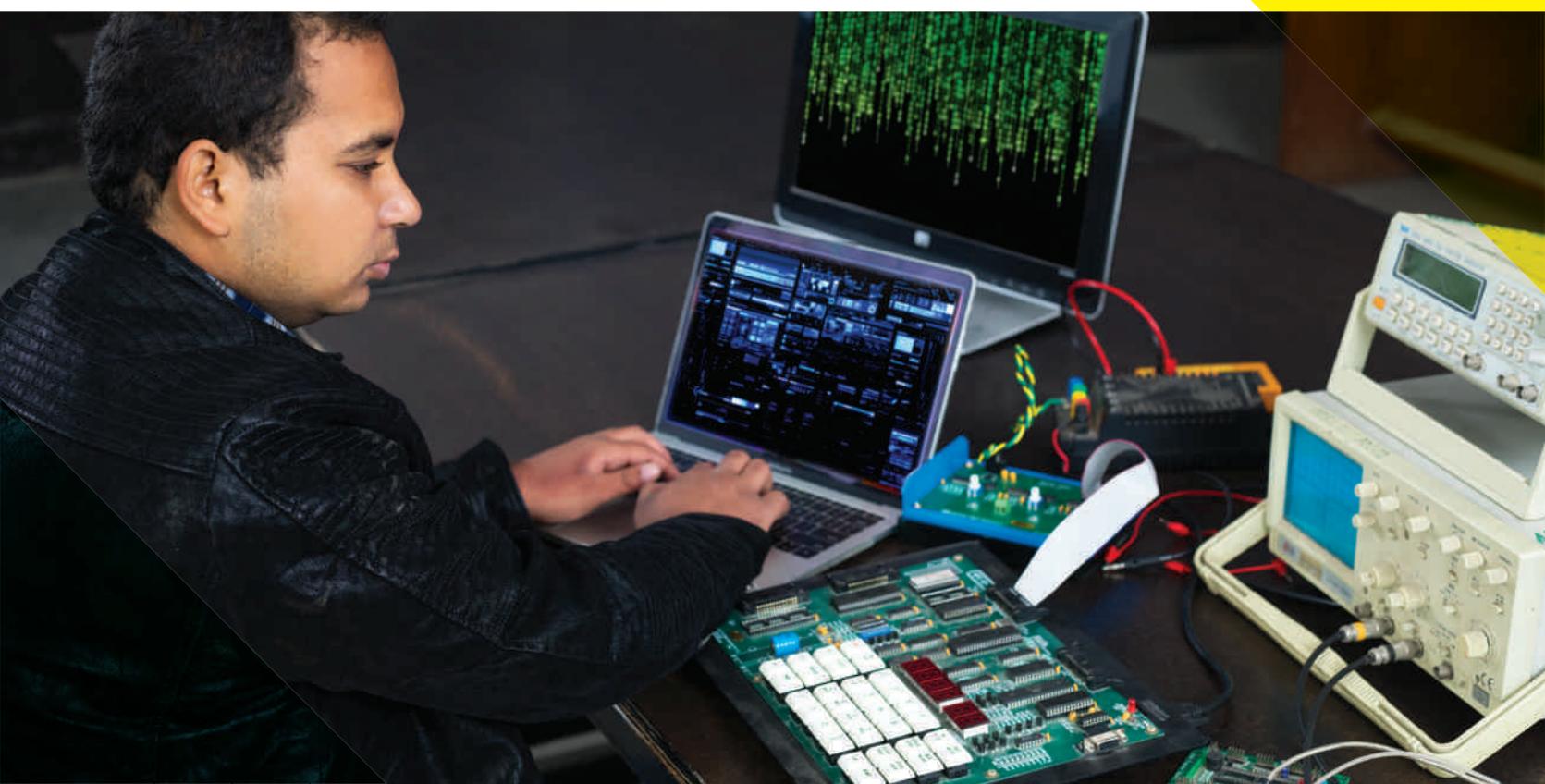
The Department of Civil Engineering is the pioneer department of acem. The department plans, arranges, monitors and controls the classes of Bachelor of Civil Engineering except for the first year program. Besides the regular academic courses, students are also trained to use various software related to the civil engineering field. This department also empowers its academicians to take part in research activities and technical paper writings. It also recommends students to different educational/professional seminars, exhibitions as the participants of acem. The department strives hard to achieve excellence in teaching, learning and professional development. The department has a vision to develop center of excellence in the field of Civil Engineering.

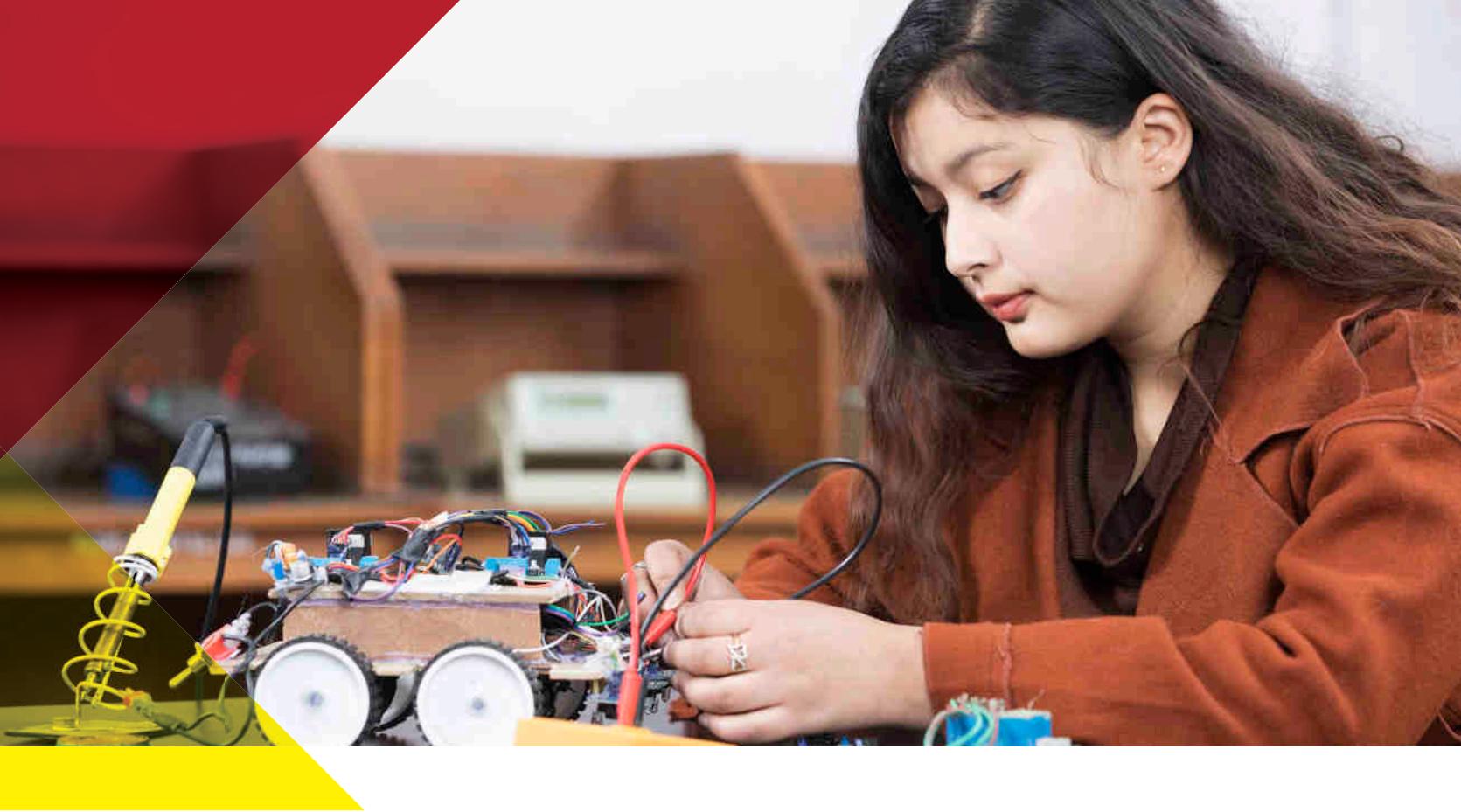


BACHELOR IN COMPUTER ENGINEERING (BCT)

Computer Engineering is a discipline that integrates the several fields of Electrical, Electronics Engineering and the Computer Science required for developing Computer Systems. The Computer Engineering students will usually be taught Electronic Engineering, Electrical Engineering, Software Design and Hardware Integration instead of only Software Engineering or Electronics Engineering. Computer Engineers are involved in many hardware and software aspects of computing, from the design of individual Microprocessors, Personal Computers and to Supercomputers. At acem, students have an environment of acquiring a sound knowledge of Software Development, Information System Design, Digital System, Computer Networking and Automatic System Designing.

The Computer Engineering students at acem will find themselves engaged in teaching -learning, research, small project works and professional works. In order to develop eternal skills of the students for their professional lives, acem offers various credit courses through elective studies and other in house designed noncredit courses.





BACHELORS IN ELECTRICAL ENGINEERING (BEL)

Electrical power and systems are at the heart of modern society- and so are electrical engineers. Electrical engineering degrees will equip students with knowledge of how the industry works, as well as giving them the engineering skills and technological knowledge needed to design, assess and improve electrical and electronic systems.

Electrical engineers may work on a diverse range of technologies from the design of household appliances, lighting and wiring of buildings, telecommunication systems, electrical power stations and satellite communications.

At bachelor level, an electrical engineering degree will aim to give you grounding in the underlying principles of electronic and electrical engineering, before allowing specialization in an area of interest later on in the course. You will also be involved in projects working within groups.

Department of Electrical Engineering at acem is actively engaged in teaching and research on many topics related to engineering challenges.



BACHELOR IN ELECTRONICS, COMMUNICATION & INFORMATION ENGINEERING (BEI)

Electronics Engineering is that discipline which uses the scientific knowledge of behavior and effects of electrons to develop components, devices, systems and equipment to ease life and business. Moreover, this field of engineering covers the area where non-linear and active electrical components such as electrical devices semiconductor devices; especially transistors, diodes and integrated circuits, are utilized to design electronic circuits, devices and systems.

Combining this engineering with the transmission and reception of electromagnetic signals is the Electronics and Communication Engineering. Recently, IOE has added new stream 'Information' in this engineering and it is now called Electronics, Communication and Information Engineering. Adding 'Information' stream adds knowledge of programming, software, networking and many more. At acem, students have an environment of acquiring a sound knowledge of Electronic System Design, Digital System Design, Computer Networking and Automatic System Designing, Digital Signal Analysis and Processing and Communication System Design. The present curricula of Electronics, Communication and Information Engineering of T.U. aims to deal with implementation of applications, principles and algorithms developed within many related fields, for example Wired and Wireless Communication Engineering, Telecommunications, Control System, Signal Processing, Computer System Design, Software Engineering, Network Engineering and Instrumentation Engineering etc.





BACHELOR IN COMPUTER APPLICATION (BCA)

This program aims in imparting knowledge and in creating the environment for implementation of practical aspects where the focus is centered at “learning by doing and observations”.

We focus on student centric teaching learning approaches in small group activities and re-enforcement with emphasis on practical oriented teaching methods with modern teaching aids. This department is backed by well educated, talented and dedicated computer professionals who are renowned for research outside the country as well. The teaching module comprises of lectures, tutorials and practical. We have state of the art infrastructure with sophisticated computer lab.

The department ensures that the education we provide is reflected not only by being successful in the examinations but also helping students to be successful and competitive in their career and contribute their best to the society.



Testimony

As a student I have fond memories of acem, where I got opportunity be taught by the best instructors. I become nostalgic remembering the fun of working in the robotics club, doing project works, and participating in sports days. I am indebted to acem for those four years where I have been able to grow as an engineering student. I dedicate the achievements of my doctoral journey and professional excellence to acem which gave me a solid foundation to pursue my higher degrees and current career.

Shyan Kirat Rai, Ph.D.

Deputy Director of Studies, Nepal Administrative Staff College
ACEM Alumni: 2001-2005, Bachelors of Computer Engineering



My four years at acem were great and a memory to cherish for lifetime. It was full of learning and grooming. I got infinite love and lessons from my teachers; the teachers made me "Work Hard" for the way to success. I am thankful to acem for giving me an opportunity to start my first job as teaching faculty. My current achievement is also due to the knowledge and guidance received from the wonderful faculty members and support of staffs of acem. Being an "acemian" makes me feel proud always.

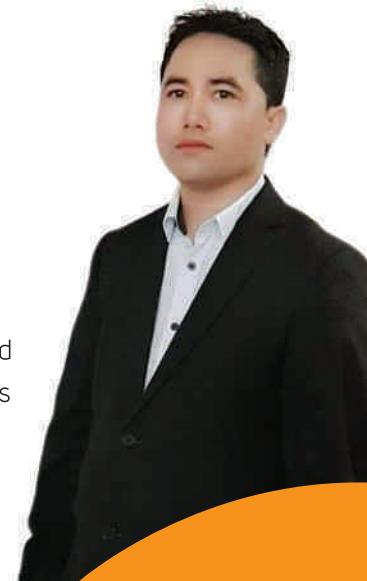
Dr. Binod Chandra Shrestha

Ex-student (Batch 2002-2006)
Deputy Director, Nepal Telecommunications Authority (NTA)
PhD Scholar, Department of Electronics and Computer Engineering,
IOE, Pulchowk Campus

Being a part of acem will always be something I will cherish. My favorite part of acem was its faculty members and learning resources. Being knowledgeable, inspiring, and approachable, my teachers provided students with much guidance and mind-opening perspectives. Their dedication to education helped us develop academic interests and grow intellectually. Acem has given me the essential tools for more academic excellence and now I am doing my bit to give back to society.

Dr. Rojit Shahi

(CPEng, NER, MIEAust, RBP)



I am absolutely honored to share my experience at acem. acem has groomed my academics along with my personality. The four years of college life has been motivating and satisfying because acem provided us with well-equipped, strong and qualified management team with cordial academic environment. ACEM motivated me to grow every possible way.

Sapana Bohara

Electrical Engineer (Nepal Electricity Authority)



acem at a glance

Establishment : 2000 AD (2057 B.S.)

Affiliation : Tribhuvan University

Location : Balkhu, Kathmandu, Nepal

Floor Area : 90000 Sq. ft.

Land Area : 15 Ropanies

courses offered & intake capacity

Course	Intake Capacity
BE Civil	96
BE Electrical	48
BE Computer	96
BE Electronics, Communication and Information	96

*Enrollment under 10% scholarship as per the rule of Institute of Engineering, T.U. has been included in intake capacity.

BOARD OF DIRECTORS



Front row left to right: Mr. Kapil Dev Regmi, Mr. Ramesh Kumar Silwal, Er. Lochan Lal Amatya

Back row left to right: Mr. Dileep Agrawal, Er. Laxmi Bhakta Maharjan, Mr. Purendra Bikram Lakhe,
Er. Uddab Raj Chaulagain, Mr. Shinjan Koirala, Er. Laxman Pokharel

BOARD OF DIRECTORS

MR. RAMESH KUMAR SILWAL, CHAIRMAN

As an academician, Mr. Silwal is continuously contributing to enhance the higher level education in Nepal by upgrading education system. He is serving as the President of Higher Institutions and Secondary Schools' Association Nepal (HISSAN) besides his involvements as the President of Golden Gate International College and the Member secretary of Nepal Sports Council of Nepal.

MR. KAPIL DEV REGMI, EXECUTIVE DIRECTOR

Mr. Regmi established Kathmandu Don Bosco School and College along with Kathmandu Pragya Kunja School. He holds MBA degree from Tribhuvan University and MPhil in Educational Leadership from Kathmandu University. Mr. Regmi is also the member of faculty board of Kathmandu University. He looks after International Relations of HISSAN.

ER. LOCHAN LAL AMATYA, PRINCIPAL

Er. Amatya served in Nepal Telecom for more than thirty two years, starting from Computer Engineer to Chief Technical Officer (CTO). He has landed his support to various IT sectors of Nepal including regional ICT projects of UNDP as National project coordinator. He is currently serving as the Chairman of Nepal Research and Educational Network (NREN), President of SECEN, ITPF and Past President of FCAN. Er. Amatya holds Master's degree in ICT from Russia.

ER. LAXMAN POKHAREL, DIRECTOR

Er. Pokharel is President of Association of Engineering Colleges Nepal (AECoN). He is the CEO of PEA Association which was established in 1994, and has served thousands of entrance aspirants. Er. Pokharel is also the Chairman of Cosmos Engineering College.

ER. UDDAB RAJ CHAULAGAIN, DIRECTOR

Er. Chaulagain is the Managing Director of Environment and Resource Management Consultant which is one of the biggest Engineering form of Nepal. He has managed and administered many road and irrigation projects funded by The World bank, ADB, DFID and other International Organizations.

MR. DILEEP AGRAWAL, DIRECTOR

Mr. Agrawal founded and established Nepal's largest Internet service provider (ISP), WorldLink in 1995 while attending Bates College in the US. WorldLink has grown to be not only the largest ISP in Nepal, but one of the largest IT services companies employing over 3,500 people throughout the country. A recognized pioneer in Nepal's IT industry, Mr. Agrawal regularly appears in national and international media.

MR. SHINJAN KOIRALA, DIRECTOR

Mr. Koirala has a more than 25 years of experience in managing different organizations. He is also the board member of Geotechnical and Associates Pvt. Ltd. (GTAA), a newly established Laboratory in the country to provide quality service in the field of Geotechnical investigation and material testing.

MR. PURENDRA BIKRAM LAKHE, DIRECTOR

Mr. Lakhe has been in the field of sports education for the last two decades. He holds Master's degree in Sports Management from Japan. He is current President of Nepal Karate Federation. He has served Nepal Olympic Committee as a Vice President.

ER. LAXMI BHAKTA MAHARJAN, VICE PRINCIPAL

Mr. Maharjan has been in the field of education for the last one and half decades. He holds Master's degree in MSc. Water Resources Engineering from Tribhuvan University. He has also been working professionally in the field of civil engineering for the last two decades.



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ESTD. 2000

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