

BACHELOR IN CIVIL ENGINEERING (BE CIVIL)

Kathford Programs

BBA | BSc.CSIT | BE Civil
BE Computer, BE Electronics & Communication



KATHFORD
INTERNATIONAL COLLEGE OF
ENGINEERING & MANAGEMENT | AFFILIATED TO
TRIBHUVAN UNIVERSITY

About Us

Kathford International College of Engineering and Management (KICEM) is a highly-ranked college dedicated to inspiring teaching, excellent student experience and strong employability. Established in 2003 and affiliated to Tribhuvan University, Kathford offers diverse programs in Engineering, Business, Computer Science and IT. A home to over 1000 students, Kathford has been producing highly competitive graduates and scholars since its inception.

Kathford is founded with the vision to become a leading education hub that provides transformative education for the students stimulating their curiosity and enabling them to turn their aspiration into a lasting basis for success, social impact and continuous learning. The college offers a unique combination of student-centered pedagogy in conjunction with laboratory, field, project and research works. In addition, the college ensures that students have competitive edge and the entrepreneurship skills as they gain access to practical exposure throughout the entire course cycle. This combination of benefits is recognized as The Kathford Advantage.

The Kathford Advantage:

- FAIR (foundation, application, integration and reinforcement) model of pedagogy – a holistic approach to build knowledge and skills;
- Teaching-learning, and structural assessment and feedback of student under the knowledge, application and synthesis/analysis skill (KAS) learning outcome;
- Merit based Kathford scholarships;
- Tuition fee waivers for top ranked students;
- Internship programs for more practical learning;
- Fourteen years of academic excellence in affiliation with the world renowned, largest and oldest university of Nepal (TU);
- Research activities integrated in the course;
- Extra tutorial classes for needy students;
- Competent, committed, and experienced faculties;
- Strong alumni network and employer connections for better job opportunities;
- Career assistance programs for better job prospects.

Kathford Quick Facts

- Founded in 2003 AD;
- Affiliated to Tribhuvan University, Nepal;
- 3 faculties- Engineering, Management and Computer Science and IT;
- 5 Academic degrees;
- 1000+ Undergraduates students;
- 10 batches of BBA graduates;
- 7 batches of Engineering graduates;
- 6 batches of Computer Science and IT graduates;
- Located at Balkumari, Lalitpur with easy access from Kathmandu, Lalitpur and Bhaktapur – A perfect balance between location and serious academic atmosphere.

BACHELOR IN CIVIL ENGINEERING (BE CIVIL)

Bachelor in Civil Engineering is a four-year, eight-semester program that deals with the planning, design, construction, and maintenance of physically and naturally built infrastructure. Civil Engineering is a continuously evolving sector with the advent of new knowledge, technology and materials. It has led to significant improvements in understanding of how structures behave and economy varies in construction.

The Civil Engineering course at Kathford enriches the students with necessary competencies to become a professional and responsible Civil Engineer. We teach our students to innovate smart solutions to improve our living environment.

BE Civil Career Prospects

Civil Engineers are responsible for planning, designing, construction and maintenance of roads, bridges, tunnels, houses, offices, shopping and residential complexes, water and sanitation systems, airports, hydropower dams and other infrastructure. They excel in engineering practice in the public and private sectors in the technical areas of environmental, geo-technical, material, construction, structural, transportation, earthquake, hydraulic, and water resources engineering.

Graduates are fully prepared to enter professional practice or pursue advanced degrees in ME Civil. A Civil Engineer can work in any of the sectors listed below:

- Major development and design firms
- Government and non-government agencies and their contractors
- Local (particularly country) government bodies
- Local and suburban engineering consultancies, specializing in private, residential or commercial
- Developments, water and flood management, road infrastructure or project management
- Academic/Research Institutions

Core Courses

- Theory of Structures
- Fluid Mechanics and Hydraulics
- Surveying
- Soil Mechanics and Foundation Engineering
- Water Supply Engineering and Sanitary Engineering
- Concrete Technology and Masonry Structures
- Design of Steel and Timber Structures
- Design of RCC Structures
- Transportation Engineering
- Irrigation and Drainage Engineering
- Hydropower Engineering
- Estimating and Costing
- Construction Management

Elective Courses

- Structural Dynamics
- Earthquake Resistance Design of Structure
- Rock Engineering
- Rock Slope Engineering
- Hill Irrigation Engineering
- Transportation Planning & Engineering
- Rural Road Engineering
- Solid waste Management
- Environmental Management System
- Procurement Management
- Time Series Analysis
- Disaster Risk Management
- Environmental Impact Assessment

Students shall undertake a major project of their choice in their final two semesters of their study.



Teaching and Learning

Top-Class Faculty Members

Kathford boasts of best academics and professionals leading the program. Our students have pride in their faculty members, who have spent decades in university, research, and consultancy. They bring experiences and new found knowledge into the classroom.

Research and Project Work

Kathford offers students an array of topics that they can choose for their project works related to design or research. Topic involves issues of structural, water resources, hydropower, geotechnical, transportation, or environmental importance. These activities are supervised by the faculty and are designed to help students deepen their knowledge in a particular area of interest.

Workshop and Seminar

Kathford hosts a range of workshops and seminars on varied areas of civil engineering. These workshops and seminars helps our students and faculties to associate with domain specialists from academia, research, construction and consultancy, water and flood management, road infrastructure, and project management.

Guest Lecture/Speakers

Kathford invites renowned academicians, professionals and experts in specialized area of civil engineering as guest speakers. These speakers share their ideas, views, knowledge and experiences with faculties and students.

Tutorial Classes

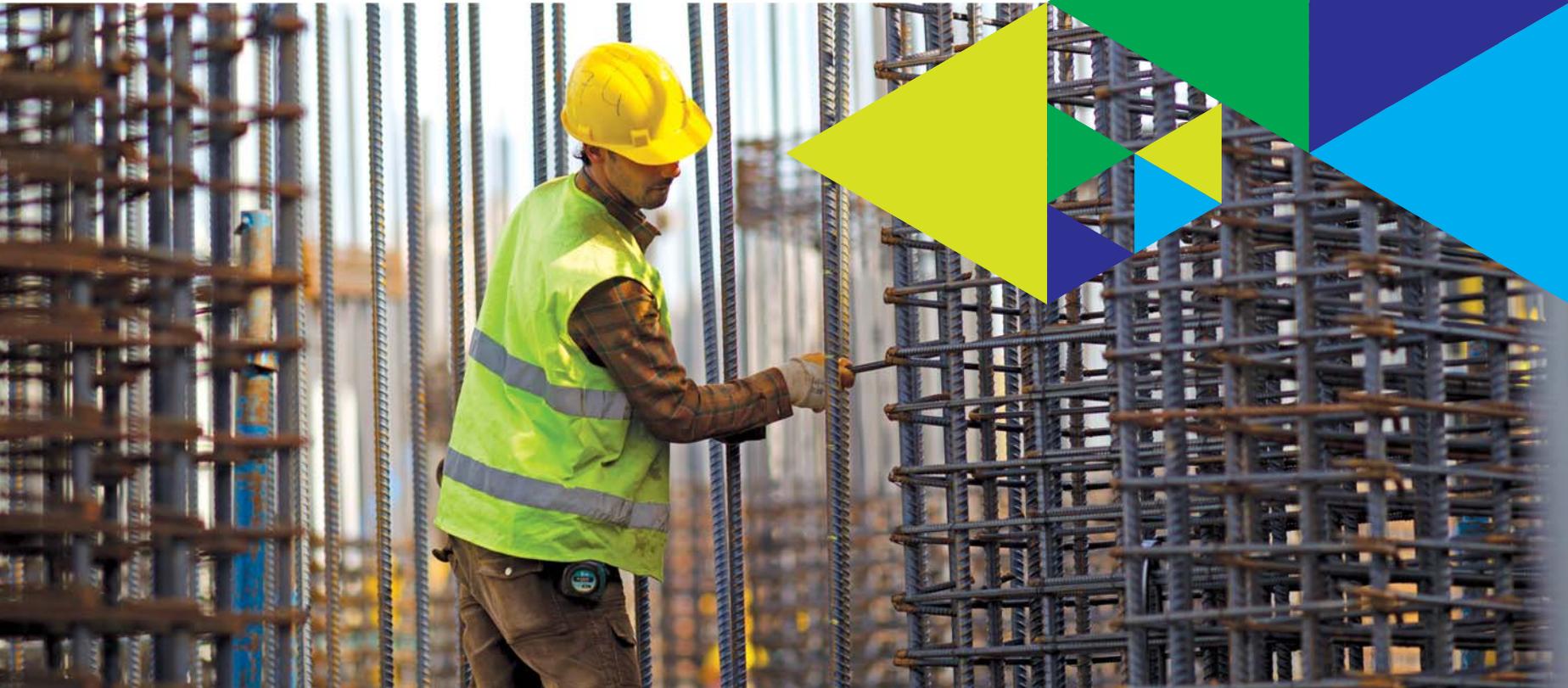
Kathford offers tutorial classes in selected subjects for the needy students. Purpose of these tutorial classes is to support students to achieve subject knowledge and skills to meet the curriculum objectives.

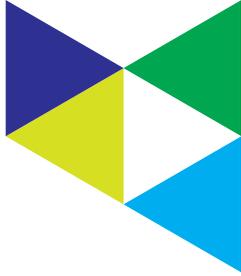
Research and Development (R&D)

The R&D Unit comprises of a panel of Kathford faculty members. They bring students, faculty members and experts together to design different projects, research on latest technologies, and transform ideas into implementation.

Kathford-Guardian Relationship

Kathford organizes regular meeting with parents/guardians of the students to develop functional coordination among students, parents/guardians and faculties to enhance students' academic progress. These meetings also help the college to understand the students better, so that the college can plan individual attention for the students.





After IOE results, I looked for many engineering colleges and finally I chose Kathford. Here, I found highly motivating and supportive learning environment with excellent and cooperative faculties. Kathford has adequate space for extracurricular activities, and classrooms are spacious. Laboratories are well equipped and managed, and library has adequate books, journals, articles and other resources. All these factors have helped shape my thoughts. Because of its outstanding results, I feel proud to be a part of Kathford. My teachers have become my mentors, guides and counselors. Thank you Kathford!

Nistha Shrestha
BE Civil 2071 Batch

I had a dream of becoming a civil engineer who can build safe and strong houses and other infrastructures for people. For that, I knew I have to get the best education. That's why I came to Kathford Int'l College knowing about its academic excellence. I am very happy to have made that decision because Kathford has given me everything I needed from a college – very good learning environment, excellent teaching facilities, great learning resources, and a practice of learning by doing with so many practical classes and implementation opportunities. I would recommend everyone to join Kathford.

Biraj Man Dangol
BE Civil 2070 Batch



Evaluation and Grading

Kathford conducts internal assessment of students in accordance with the KAS learning outcome. Here, students are assessed on their functional knowledge and skills articulated by the curriculum from a range of methods including written test, business case analysis, group discussion, and reports. The overall academic performance of students is evaluated through the mid-semester, end-semester, and University examination.



Facilities

Kathford offers rich academic experiences, new relationships, and diverse cultural values. It motivates students to participate in various activities and benefit from highest quality of campus life.

Library

Library at Kathford is a well-managed and fully equipped learning station for students and faculty member. Kathford has a spacious library with tens of thousands of books and learning resources. The library provides full sets of course books and reference books along with journals, magazines and newspapers, and facilitate students with hassle-free services. The library is well equipped with broadband Internet and wireless connections, so that the students have access to enormous learning resources from all over the world.

Computer Center

The Computer Center at Kathford constitutes of 4 computers labs with more than 100 computers that are open for learning, programming, practicing, workshops and competitions. These labs are fully equipped with Internet connectivity and multimedia devices. The college encourages students to use computer center for e-learning, research and practicing, so that they can gain maximum knowledge and develop their programming and research skills.

Laboratories

Kathford has well equipped laboratories for soil mechanics, transportation, structure, survey, fluid mechanics and hydraulics, hydropower, and mechanical workshop, RCC and concrete technology, physics, chemistry, and thermodynamics. These laboratories provide adequate resources for students to conduct engineering laboratory assignments.

Cafeteria

Kathford has a well facilitated cafeteria for students and faculty members that serve good and hygienic food. The cafeteria is outsourced to external parties where the college makes quality check to ensure that the food are hygienic and the kitchen and dining halls are clean and tidy.

Sports

Kathford organizes a numerous sports activities and competitions. The premises provide convenient space to conduct in-house games that includes table tennis, basketball and futsal. Similarly outdoor venues are allocated for football, cricket and volleyball.

