



BACHELORS OF SCIENCE IN COMPUTER SCIENCE AND INFORMATION TECHNOLOGY (BSc.CSIT)

Kathford Programs

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



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.

BACHELORS OF SCIENCE IN COMPUTER SCIENCE AND INFORMATION TECHNOLOGY (BSc.CSIT)

BSc.CSIT is a specially crafted course in computer science and information technology, which specializes in the core concept and practical aspects of computer studies. This four-year, eight-semester program is the decorated degree that integrates latest technology and practices with the business and governance solutions through IT. A more flexible degree, BSc.CSIT provides students with necessary knowledge, skills, exposure and experience and prepares them for the challenging job market and IT entrepreneurship.

Core courses

- Fundamentals of Computer Programming
- Discrete Structure
- Object Oriented Programming
- Computer Networks
- Artificial Intelligence
- System Analysis and Design
- Database Management System
- Software Engineering
- Database Warehousing and Data Mining

Elective courses

- E-Governance
- Cryptography
- E-Commerce
- Advanced Networking with IPV6
- Cloud Computing

BSc.CSIT Career

Computing jobs are among the highest paid and have the highest job satisfaction. Computers are often associated with innovation, and the jobs are highly dynamic and growing. Our BSc.CSIT degree will provide you with skills that are in high demand within industry. Our graduates are working in many software development companies in Nepal and abroad and are providing noble computing solutions ranging from e-commerce to top-class software development.

With a BSc.CSIT degree, you can become Software Developer, System Analyst, Web Developer, Application Developer, Network Administrator, Database Manager, Quality Analyst, Solution Architect, Project Manager and Software Entrepreneur. Our graduates are enjoying promising careers at a number of tech giants like EB Pearls, Verscend Technology, Deerwalk Inc., F1 Soft, LIS Nepal, SPI Nepal, Cloud Factory, Brain Digit, 3Hammers, Codysey Web Nepal, Nepflights, White Space, Social Aves, Continental Solution, Smart Samaj, Stuxbot Technology, Ceemol, Inking Creation Nepal, Fancpan Zhong Le, Subisu Cablenet, DIA Nepal, NG Outsourcing, MixErp Inc., Vianet, Makura Creations, Designco Nepal, E-matrix, Young Innovation, Elite Network and Communications, Proshore, Volcus Soft, Mercantile, AMSoft, E-Prima Technology, and many others. Many of our graduates are also employed at banks and business houses like Standard Chartered Bank, N.I.D.C Development Bank, Dept. of Health Services- Govt of Nepal, Incentive Group of Companies, Cosdent Health Care etc.



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.

Internship

At Kathford, internship is mandatory. The college provides excellent opportunities, guidance and environment for proper internship. Internship is necessary for students to get exposure in numerous technologies, including web development, e-commerce, mobile application, management information system, research, and ICT strategy. The Internship allows our students to integrate classroom learning into a work environment and vice-versa.

Some organizations where BSc.CSIT students from Kathford have worked as Intern are EBPearls, Microsoft Innovation Centre, Digital Outreach Pvt. Ltd., Verscend Technologies, Cloudfactory, Young Innovation, Amsoft Technologies etc.

Research and Project Work

Kathford conducts research and project work as an integral part of the study. These activities are supervised by the faculty and are designed to help students deepen their knowledge in a particular area of interest.

Project work is mandatory as a part of the curriculum for 7th semester students of BSc.CSIT. However, at Kathford, students are required to conduct project work in all semesters, so that they learn the concepts better. Students must complete the assigned project works on different subjects like C, C++, Data Structure, HTML, OS, Database, .NET, PHP, IOS, and Android Application in different semesters.

Some projects accomplished by students are Thread in Android Forum APP, Kathmandu Restaurant Locator, Online Music Library with Recommendation System, Traffic Alert, Crime Prediction of Kathmandu Valley, Online Radio Streaming, Movie Recommendation System and Analyzer of Proxy Server.

Workshop and Seminar

Kathford hosts a range of workshops and seminars on varied areas of ICT and software. These workshops and seminars programs helps our students and faculties to associate with domain specialists from academia, research, ICT industry, and software industries.

The workshop/seminar organized by Kathford include: Effective presentation, Interview skills, Report writing, Current trends in ICT development, Network security by DOPL, and Idea camp by Microsoft Innovation Center, Motivational workshop.

Guest Lecture/Speakers

Kathford invites eminent academicians, professionals and experts in specialized area of software industry and ICT industry as guest speakers. These speakers share their ideas, views, knowledge and experiences with faculties and students. Few of the recent guest speakers are:

- Roles of IT Graduates in The Software Industry – Shamesh Joshi, Sr. Engineering Manager, Verscend Technologies
- What Does Future Hold For You – Rupak Shaky, Director, EB Pearls
- How To Prepare For Your Career in IT and Power of Java Script – Karmath Dangol, VP Engineering, Cloud Factory
- Information Technology in Banking Sector – Samir Giri, Sr. Officer, IT Department, Nabil Bank Ltd.
- Final Year Project Work; Report Writing and Defense; Final Year Internship – Jagdish Bhatta, Lecturer, Central Department of CSIT
- Motivational Speech on Orientation – Dr. Rajiv Subba, DIG, Director of Communication Directorate, Police Head Quarter

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 curricular objectives.

Professional course

Kathford conducts additional short-term professional courses for BSc.CSIT students which are designed to bridge the gap between academic curriculum and the latest technology and trends in ICT. These professional courses prepare students for the challenging and ever-changing job market.

Some professional courses conducted by Kathford are:

1. Program Synthesis using Java
2. Exploring the web through PHP
3. Developing Creativity on UI/UX
4. Developing Android Application
5. Understanding Open Source, Linux
6. Recent web Technology of Microsoft – Dot Net, Xamarin Technology
7. Certified courses on Hardware and Networking – CCNA

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.



OUR STUDENTS' ACHIEVEMENTS

2nd Runner Up in NASA International Space Apps Challenge, Kathmandu 2017

Our 4th year BSc.CSIT students - Asmita Tandukar, Rumi Rajbhandari and Sushma Giri won 2nd Runner Up award in NASA International Space Apps Challenge, Kathmandu 2017 organized by International Centre for Integrated Mountain Development (ICIMOD), Mercy Corps Nepal, Nepal Engineers Association (NEA) and Robotics Association of Nepal (RAN) in collaboration with Young Innovations Pvt. Ltd. and Kathmandu Living Labs in April 29-30, 2017. The Kathford team developed an android app named Food Cycle under the global challenge named "What's for Dinner?"

Winner in Open Data Hackathon 2017

Our 4th year BSc.CSIT students - Anjana Raut, Priyanka Gyawali, Rumi Rajbhandari and Sushma Giri won Open Data Hackathon 2017 organized by Young Innovations Pvt. Ltd. at Moods Lounge, Tripureswor. Our team - Team Tracker developed a mobile app that could track the road construction work, list of ongoing project, their budget and their start date and estimated completion date. The project was highly applauded by the organizer, and have also obtained seed fund to implement their project.



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.

Eligibility

- » Passed in PCL/+2 in Science
- » Passed in IOST Entrance Test

Admission Procedure

- Appear in IOST Entrance Test
- Fill-up Kathford Application Form
- Attend Interview (including parents/guardian)
- Admission in Kathford Int'l College

Laboratories

Kathford has well equipped laboratories for digital electronics, microprocessor, and networking. These laboratories have adequate resources available for students to conduct engineering laboratory assignments.

Conference Hall

Kathford has a spacious conference hall that accommodates more than a hundred students for conferences, seminars and guest speaker programs. It is well equipped with speakers' dais and audio-visual aids.

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.

