B.Sc. CSIT & BCA PROSPECTUS

Tribhuvan University Affiliate

samajik
college

Message from the CEO & Chairman

First, allow me to welcome you and also congratulate you for successfully completing +2 or A level. At this time you need appropriate guidelines and support to take a decision for higher education.

Samajik College has been offering IT Courses. Within this short period we have grown beyond expectations and have won praise from industry leaders and well-known academicians as one of the best Technology Colleges.

With a combination of expertise and innovation, Samajik College always seeks new approaches to apply in delivering these qualifications. Our key team members are well qualified and trained to carry out their assigned roles and responsibilities. Our ultimate aim is to provide international standard learning environment and help students develop the abilities and skills to produce the results they desire for. We know that the future is unknown and abstract but the youths in our hands are real with immense creativity and potential. We make every effort and provide opportunities to unleash their creativity and demonstrate their potentials through different project works, independent assignments and workshops & seminars. We may not always build the future of our youths, but definitely we are building youths capable for the future.

My dear students, I want to share with you in simple words what I have learnt from experience; you don't have to be great to start, but you have to start now to be great. And you do not get a different result doing the same old things; you have to do something different. Definitely, Samajik College provides you the opportunity to do something significantly different and much better.

Look forward to meeting at Samajik College and wish you all the best.

Yogesh Upreti
CEO & Chairman

About Samajik College

Samajik College, a modern college, is established with an aim to significantly contribute to shape the career of +2 graduates in the field of IT and Computing. The courses **B.Sc. CSIT & BCA** at **Samajik College** is affiliate to **TU**. The college, in fact, is committed to helping students develop skills, knowledge, and attitudes that help them pursue opportunities in IT and Computing.

Samajik College understands the advancement of computers and Information Technology which continues to have a profound impact on lives, and addresses the need of technically competent graduates to provide appropriate computing solutions that industry requires.

Besides curricula designed by the University, the college will also teach students soft skills, problem solving skills, critical thinking and industry relevant additional IT courses. Most importantly, the course taught offers both theoretical and practical applications where students are encouraged to apply their classroom instructions. Emphasis is placed on helping students to develop skills, knowledge in technical areas that have practical value in the workplace.

Studying at **Samajik College** provides its students a combination of leading-edge theory and technical knowledge plus hands-on practical experience to prepare our students for a successful career as an IT professional in Nepal and around the world.

Aim

We aim to teach, train, guide, and motivate students to effectively make their way into a challenging and rewarding IT and computing career.

Mission

The mission of the **Samajik College** is to expand human knowledge and benefit society through research integrated with education. We prepare students to investigate the most challenging, fundamental problems in technology while educating outstanding students to become creative members of society.

Values

Institutional values influences how we make and carry out decisions, and how we interact with internal and external constituencies. Our core values are:

- Dedication
- Honour
- Respect
- Responsibility
- Trust

B.Sc.CSIT | B.Sc. Computer Science & information Technology

The course is taught over the four years and in eight semesters. Students spend considerable time in the lab, where they are encouraged to apply what was taught in the classroom and see for themselves how, why and what makes things work.

First semester:
- CSC-109: Introduction to IT
- CSC-110: C Programming
- CSC-111: Digital Logic
- MTH-112: Mathematics I
- PHY-113: Physics

Second semester:
- CSC-160: Discrete Structure
- CSC-161: Object Oriented Programming
- CSC-162: Microprocessor
- MTH-163: Mathematics II
- STA-164: Statistics I

Third semester:
- CSC-206: Data Structure and Algorithms
- CSC-207: Numerical Method
- CSC-208: Computer Architecture
- CSC-209: Computer Graphics
- STA-210: Statistics II

Fourth semester:
- CSC-257: Theory of Computation
- CSC-258: Computer Networks
- CSC-259: Operating Systems
- CSC-260: Database Management System
- CSC-261: Artificial Intelligence

Fifth semester:
- CSC-314: Design and Analysis of Algorithms
- CSC-315: System Analysis and Design
- CSC-316: Cryptography
- CSC-317: Simulation and Modeling
- CSC-318: Web Technology

Elective: Any one
- CSC-319: Multimedia Computing
- CSC-320: Wireless Networking
- CSC-321: Image Processing
- CSC-322: Knowledge Management
- MGT-323: Society & Ethics in Information Technology
- MGT-324: Microprocessor Based Design

Sixth semester:
- CSC-364: Software Engineering
- CSC-365: Compiler Design and Construction
- CSC-366: E-Governance
- CSC-367: NET Centric Computing
- CSC-368: Technical Writing

Elective: any one
- CSC-369: Applied Logic
- CSC-370: E-commerce
- CSC-371: Automation and Robotics
- CSC-372: Neural Networks
- CSC-373: Computer Hardware Design
- CSC-374: Cognitive Science

Seventh semester:
- CSC-409: Advanced Java Programming
- CSC-410: Data Warehousing and Data Mining
- MGT-411: Principles of Management
- CSC-412: Project Work

Elective: any one
- CSC-413: Information Retrieval
- CSC-414: Database Administration
- CSC-415: Software Project Management
- CSC-416: Network Security
- CSC-417: Digital System Design
- MGT418: International Marketing

Eighth Semester:
- CSC-461: Advanced Database
- CSC-462: Internship

Elective: Any two
- CSC-463: Advanced Networking with IPV6
- CSC-464: Distributed Networking
- CSC-465: Game Technology
- CSC-466: Distributed and Object Oriented Database
- CSC-467: Introduction to Cloud Computing
- CSC-468: Geographical Information System
- CSC-469: Decision Support System & Expert System
- CSC-470: Mobile Application Development
- CSC-471: Real Time Systems
- CSC-472: Network and System Administration
- CSC-473: Embedded Systems Programming
- MGT-474: International Business Management

BCA | Bachelor's in Computer Application

Bachelor in computer application or (BCA) is a TU affiliated, four years undergraduate degree course in computer application. With the rapid growth of IT industry in worldwide, the demand of computer professional is increasing day by day. This increasing growth of IT industry has created a lot of opportunities for the computer graduates.

Bachelor in computer application (BCA) is one of the courses that connects students to an promising career in computing and IT. The course helps studnets develop a lot of practical in hand skills in different areas in IT and computing. The students interested in computer field and wants to work in the IT sector as programmer or software develop can study this course.

First semester:
- Computer Fundamentals & Applications
- Society & Technology
- English I
- Mathematics I
- Digital Logic

Second semester:
- C Programming
- Financial Accounting
- English II
- Mathematics II
- Microprocessor & Computer Architecture

Third semester:
- Data Structures & Algorithms
- Probability and Statistics
- System Analysis and Design
- OOP In Java
- Web Technology

Fourth semester:
- Operating System
- Numercial Methods
- Software Engineeting
- Scripting Language
- Database Management System
- Project I

Fifth semester:
- MIS and e-Business
- DotNet Technology
- Computer Networking
- Introduction to Management
- Computer Graphics & Animation

Sixth semester:
- Mobile Programming
- Distributed System
- Applied Economics
- Advanced Java Programming
- Network Programming
- Project II

Seventh semester:
- Cyber Law & Professional Ethics
- Cloud Computing
- Internships
- Elective I
- First Year Elective II

Eighth semester:
- Operations research
- Project III
- Elective III
- Elective IV

LIST OF ELECTIVES COURSES
- Applied Psychology
- Geographical Information System
- IT in Banking
- Enterprise Resource Planning
- Knowledge Engineering
- Advanced DotNet Technology
- Database Programming
- Database Administration
- Network Administration

Career Path

- Software Developer
- Web Developer
- Network Administrator
- Database Administrator
- IT Manager
- Cryptographer
- Ergonomics Program
- System Analyst

- Project Manager
- AI Specialist
- Information System Manager
- Database Operator

Additional proposed courses the college teaches during the course. There can be variation as per the need of students and industry requirements

- Website Development using CMS
- PHP
- Asp.net with C#
- CCNA
- JAVA
- android App
- linux

Why to study at Samajik College

The college understands the need of twenty-first century organizations' needs and prepares its graduates who are capable of addressing needs of the industry. The programme prepares students to address the need of technically competent IT professionals that business industries, government bodies, NGOs, INGOs, hospitals, banks and other kinds of organizations require.

The college engages students in different project works and assignments which help them possess the appropriate combination of knowledge and practical to take care of both organization's information technology infrastructures and the people who use it.
Further, experiential learning and hands-on exposure to current and emerging technology is a key feature at **Samajik College**'s courses . You will have access to fully equipped and specialized computer laboratories right from the beginning of your course. Also, the college maintains strong industry links through research and educational programmes, so our students have the opportunity to be involved in the industry projects and work experience.

Most importantly, **Samajik College** puts all its efforts to produce graduates who are multi-skilled, multi-tasked and good human who will be well-rounded IT professionals with significant exposure to a diverse range of IT practices and possess the ability to meet the future needs of this ever-evolving and fast moving industry.

Students Testimonial

"Teaching, training, guidance, and motivation", a complete package of effective learning is what we can absolutely expect from **Samajik College**. Reading, writing and mutual interactions are common things; what we have here is: 'preparation to our best level in order to get the right track for Journey of success to make our life meaningful, additionally.' **Samajik College** brings us a group of like-minded, creative, vibrant and qualified young teachers with enormous enthusiasm coming together on one platform to foster the education status of the students. **Samajik College** provides its students a combination of leading-edge theory and technical knowledge plus hands-on practical experience to prepare students for a successful career as an IT professional in Nepal and around the world. So, I am very proud to be the part of **Samajik College** and claim that I was completely right when I chose **Samajik College**.

Niraj Baidya
Bsc.CSIT (Batch 2070)

"Where will I get the best education?" was the question frequently striking my mind. Finally, after observing many colleges, I decided to pursue my bachelor's degree from **Samajik College** because of its academic excellence. And I have no any regrets regarding my decision as **Samajik** has given me everything I needed from a College – highly motivating and supportive learning environment along with excellent teaching facilities, great learning resources and more practically focused learning to grab various opportunities in the field of IT.

It is the platform which helped me to shape my thoughts, build a path leading to my dreams and explore my ideas in different sectors. Here, extracurricular activities go hand in hand with Academics which indeed is a heavenly experience. I am proud to be one among the lucky students. And now, turn is yours.

Suesha Giri
Bsc.CSIT (Batch 2073)

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Lokanthali, Bhaktapur, Nepal
T: 01-6638497
E: info@samajikcollege.edu.np
W: www.samajikcollege.edu.np
 /samajikcollegenepal