

BACHELOR OF ARTS IN COMPUTER APPLICATION

Bachelor of Arts in Computer Applications (BCA) is a four-year, eight semesters program with 47 core and elective subjects which aims to produce skilled IT specialists. This program explores theory and practice of innovative and experimental computer science courses allowing you to develop well-rounded professional and technical skills. This course offers an opportunity to learn state-of-the-art technological advancement with required analysis and synthesis involved in computer systems, information systems and computer applications. This enriching course, developed by experts in Tribhuvan University, enables you to design, create and manage IT infrastructure in all kinds of industries. This program makes you an expert IT specialist.

Program Objectives of BCA:

BCA program is designed with the following objectives:

- To produce professionals in the field of computer application as programmer and software developers.
- To provide knowledge about various tools and techniques used in software development.
- To provide students with both practical and theoretical aspect of studies related to computer applications.
- To enhance the skill of students to create solutions of technical problems that arises in industrial, commercial as well as in government companies.
- To provide students a fine base to continue their studies further in MIT, MBA, MCA, etc.

Eligibility

- Minimum grade 'C' in all the subjects of 11 and 12

Semester Cycle

Semester I: 16 Credit Hours

- Computer Fundamentals and Applications
- Society and Technology
- English I
- Mathematics I
- Digital Logic

Semester II: 16 Credit Hours

- C Programming
- Financial Accounting
- English II
- Mathematics II
- Microprocessor and Computer Architecture

Semester III: 15 Credit Hours

- Data Structures and Algorithms
- Probability and Statistics
- System analysis and design
- OOP in Java
- Web Technology

Semester IV: 17 Credit Hours

- Operating System
- Numerical Methods
- Software Engineering

- Scripting Language
- Database Management System
- Project I

Semester V: 15 Credit Hours

- MIS and E-Business
- DotNet Technology
- Computer Networking
- Introduction to Management
- Computer Graphics and Animation

Semester VI: 17 Credit Hours

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

Semester VII: 15 Credit Hours

- Cyber Law and Professional Ethics
- Cloud Computing
- Internships
- Elective I
- Elective II

Semester VIII: 15 Credit Hours

- Operations Research
- Project III
- Elective III
- Elective IV

Elective Courses

- Applied Psychology
- Geographical Information System
- IT in Banking
- Hotel Information System
- Enterprise Resource Planning
- Knowledge Engineering
- Advanced Dot Net Technology
- Database Programming
- Database Administration
- Network Administration