

# Scope of Bachelor of Computer Application (BCA) program

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## Abstract

The main focus of this study is to posit many opportunities on IT sector and it aims to direct students in building their self-confidence to work on various fields of IT sector such as software companies, IT offices, Media print houses, school/college etc.. Students will be able to identify, evaluate & solve the technical issues and get knowledge on various tools and techniques of software development. In the same vein, students will be owner of their own company and will be capable to create job opportunities for others.

**Keywords:** - Scope, Eligibility, Admission, objectives, BCA

## Introduction

BCA is four year, eight semester undergraduate technical program in Nepal. This program has offered by three universities in Nepal. They are Tribhuvan University, Purbanchal University and Pokhara University. Tribhuvan University has launched this program under faculty of Humanities and Social Science. Purbanchal and Pokhara Universities have lunched under faculty of Science and Technology. In context of Nepal, There is the lack of skilled manpower in technology to develop, design, analyze, implement and evaluate the computerized solution to real life problem using appropriate computing method. There are some similar technical program like BIT, BIM, BSc CSIT and BE. Each year small amount of students graduates from these programs. Out of these students some of them are interested to work in abroad and remain are in our country. To produce skilled computer software developer and generate ability to work various IT sector, Nepalese government has launched one more technical BCA program. This program is not only designed for job but also to build self -confidence and encourage to self-employment. This program is also known as alternative program of Engineering. Nowadays computers are used anywhere from small general store to big multinational companies, but BCA is not designed to train you to work in general store, malls and marts since it has much more value than those diploma courses which one can have within a few month.

## Objectives

The students of BCA gains the knowledge and skill for the success by achieving the following objectives

- To provide knowledge on various tools concept and technique of software development
- To enhance student's ability to identify, evaluate and solve the technical issues.
- Demonstrate the ability to adapt to technological changes and innovation in the discipline.
- Analyze, design, implementation and evaluate computerized solution to real life problems.
- Differentiate among essential data structures used in computer programming and explain how they work.
- Gain knowledge of algorithms and their role in computer science.
- To provide solid foundation for the further studies leading to MCA, MIT and MBA.

- Apply the techniques of software validation and reliability analysis to the development of computer program.
- Build up sound verbal and written communication skill.
- Acquire the knowledge, skills, experience and value to become learner able to obtain employment in a computer related field.
- Demonstrate the critical thinking and communication skills required in technocratic field.
- To produce efficient professional in the field of computer application.
- Utilize important data structures and associated algorithms in the development of computer program.

### Scope

BCA program has huge scope in various sectors. After graduation of this program you will have major three options. They are

1. Job
2. Self-Employment
3. Higher Study

Out of above one can select one's best option without hesitation.

**1. Job:** - If you are interested on job then there are many opportunity in the market, you can grab best one of them. They are

- Computer Programmer
- System Analyst
- System Administrator
- IT officer/Manager
- Web Developer
- Software Developer
- Computer Support Services Specialist
- Digital marketing specialist
- Software Testing Specialist
- IT in-charge in media, print & publishing house
- Database Administrator
- Computer Scientist

**2. Self-employment:** - After graduation, if you have good commanding on computer science theory and practical, consider self-employment. BCA manpower can launch a computer science-oriented business with little start-up capital, and in many cases an employer might prefer to contract your services rather than hire you full-time. He/she can start his/her own business on the following area.

- ✓ Consulting Firm
- ✓ Web Based Businesses
- ✓ Mobile Apps
- ✓ Supporting New Technologies
- ✓ IT institution /school/college/university
- ✓ Software Company

**3. Higher Study:-** Higher study also best choice for students being scientist. If one wants to get deep knowledge on this field then he/she can go for advancement of the following courses.

- ✓ Master in Computer Application (MCA)
- ✓ Master in Business Administration (MBA)
- ✓ Master in Information Technology (MIT)
- ✓ Master in Information Management (MIM)
- ✓ Master in Computer management (MCM)

### **Eligibility Criteria**

All those candidates who have completed the 10+2 or Intermediate level or its equivalent examination in any stream or discipline such as Science, Engineering, Management, Humanities, Educations and others are conducted by a recognized Board/ University/Council are eligible to study this program. CGPA or percentage dependence upon universities.

### **Admission**

Mostly the Admission to BCA Program is done through the entrance test. Various universities conduct its own entrance exam for granting admission to their college. Only eligible students are allowed to take the entrance test. Generally in entrance test question will be asked from English, Mathematics and General Knowledge. A merit list of the applicants will be based on the writtentest, interview and intermediate (10+2) scored.

### **Conclusion**

Finally students build their self-confidence to work in various fields such as software companies, IT offices, Media print houses, school/college etc. Students are able to identify, evaluate and solve the technical issues and being owner of their company. So BCA program is really effective choice of selection to build better career opportunities.

### **Reference**

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