



Bachelor in Computer Application (BCA)

1.1 BCA Programme Introduction

BCA Programme is structured as per latest development in the computer science Application and need of the Information Technology Industry requirements. You will receive support from IGNOU through Internet as well as through the network of our Regional and study centers. A study center which will offer counseling sessions (Both theory and Practical). You will receive printed course material in accordance with our dispatched schedule. You are advised to attend theory and practical counseling session regularly. You need to have a minimum of 70% attendance for practical counseling to appear for Term End Practical Examination. You need to submit requisite assignments before the due dates to become eligible to appear for Term End Theory Examination at your study centre i.e. PI 9604 (NIT D.A.V Complex Jawalakhel).

Bachelor of Computer Applications (BCA) is a three year full-time regular degree course in Computer Application. Our BCA course is very popular with the students community because of its unique and most advanced curriculum which has been designed exhaustively and has been up-dated on the basis of national workshops of reputed experts, conducted by the university. The BCA course of our University has been considered unique among the entire BCA course being conducted at other Universities in India and Nepal.

1.2 Job & Future Prospects of BCA

The range of careers in IT is immense. Some are creative and some are highly technical. Much of the work involves thinking or problem-solving. The careers opportunities can be broadly categorized under computer programmers, software developers/entrepreneurs/engineers, web designers/developers, business/system analysts, system operators, training professionals, customer/help desk support, technicians, and sales professionals. After successful completion of BCA you can work as:-

- Software Programmer
- Database Administrator
- System and Network Administrator
- Multimedia Programmer
- Web Designer
- Faculty for Computer Science/Communication Technology

Further Study: If you want to enhance your IT/Management skills, you can further join MCA/M.Sc. (IT)/ M.Sc. (CS) / MBA (IT).



1.3 Duration & Eligibility

Eligibility: i) 10+2 or its equivalent with Maths as a distinct subject or

ii) 10+2 or its equivalent without Maths as a distinct subject. (The student of this category will have to do MTE-3 and CLC in 1st semester of BCA and successfully completed before registering for 3rd semester student of BCA).

Programme Duration: The programme can be completed in a minimum of 3 years and maximum of 6 years.

1.4 Examination

Examination will be conducted as per the schedule declared by University after every semester in the month of June/July and December/January. Examinations are being conducted at Kendriya Vidhalaya, Indian Embassy premises, Kathmandu. Examination will consist of Internal Assessment (30%) and Theory Examinations (70%) as per the University guidelines. For passing the examination minimum 35% marks must be scored in each passing head individually. For passing the semester, the aggregate must be 40% in Theory and Internal Assessment groups separately.

1.5 Accreditation

After successful completion of all six semesters degree will be awarded by **MCRPSV**. The degree awarded by MCRPSV is recognized by UGC of India. MCRPSV is a member of Association of Indian Universities, Delhi, India. All the courses of MCRPSV, Bhopal are recognised by Tribhuvan University and Kathmandu University, Nepal. BCA course is duly accredited by TU, Nepal.

1.6 Medium of Instruction

The medium of instruction is only in English. The course material is also in English.

1.7 Credit System

The university follows the Credit System for its programme. Each credit is worth 30 hours of student study time comprising all learner activities. Thus, a three credit course involves 90 study hours. Completion of the programme requires successful completion of both assignments and the Term End Examination of each course in the programme.

1.8 Total Credits for BCA

No. of Semesters = 6

Total Credits = 99



1.9 Admission Cycle

Jan Session: End of Nov

July Session: End of May

1.10 Programme Fees

Total Course Fees: Rs. 1, 30,000

Admission Fee: 4,000

(Rs 21,000 per Semester).

1.11 Application Form Requirement

- Copy of SLC Mark sheets.
- Copy of Academic Transcript/Mark sheets of 10+2 Level.
- Copy of Migration certificate and transfer certificate.
- Copy of Citizenship Certificate.
- 6 passport-size photographs.
- 2 auto-size photographs.

1.9 BCA Programme Structure

1st Semester

CourseCode	Course Name	Credits
FEG-02	Foundation course in English -2	4
ECO-01	Business Organization	4
BCS-011	Computer Basics and PC Software	3
BCS-012	Mathematics	4
BCSL-013	Computer Basics and PC Software Lab	2

2nd Semester

CourseCode	Course Name	Credits
ECO-02	Accountancy-1	4
MCS-011	Problem Solving and Programming	3
MCS-012	Computer Organization and Assembly Language Programming	4
MCS-015	Communication Skills	2
MCS-013	Discrete Mathematics	2
BCSL-021	C Language Programming Lab	1
BCSL-022	Assembly Language Programming Lab	1



3rd Semester

CourseCode	Course Name	Credits
MCS-021	Data and File Structures	4
MCS-023	Introduction to Database Management Systems	3
MCS-014	Systems Analysis and Design	3
BCS-031	Programming in C++	3
BCSL-032	C++ Programming Lab	1
BCSL-033	Data and File Structures Lab	1
BCSL-034	DBMS Lab	1

4th Semester

CourseCode	Course Name	Credits
BCS-040	Statistical Techniques	4
MCS-024	Object Oriented Technologies and Java Programming	3
BCS-041	Fundamentals of Computer Networks	4
BCS-042	Introduction to Algorithm Design	2
MCSL-016	Internet Concepts and Web Design	2
BCSL-043	Java Programming Lab	1
BCSL-044	Statistical Techniques Lab	1
BCSL-045	Algorithm Design Lab	1

5th Semester

CourseCode	Course Name	Credits
BCS-051	Introduction to Software Engineering	3
BCS-052	Network Programming and Administration	3
BCS-053	Web Programming	2
BCS-054	Computer Oriented Numerical Techniques	3
BCS-055	Business Communication	2
BCSL-056	Network Programming and Administration Lab	1
BCSL-057	Web Programming Lab	1
BCSL-058	Computer Oriented Numerical Techniques Lab	1

6th Semester

CourseCode	Course Name	Credits
BCS-062	E-Commerce	2
MCS-022	Operating System Concepts and Networking Management	4
BCSL-063	Operating System Concepts and Networking Management Lab	1
BCSP-064	Project	8