

BCA - Bachelors

The BCA program will have eight semesters with 126 credit hours. Each semester shall have duration of 6 months (Minimum of 15 weeks to maximum of 20 Weeks). The semesters start twice each year. This program comprises of the following courses:

BCA Overview

- Course Name: Bachelor of Arts in Computer Application (BCA)
- Affiliation: Tribhuvan University (T.U.)
- Faculty: Faculty of Humanities and social Sciences (FOHSS)
- Duration: 4 Years
- System: Semester System
- Total Credit Hours: 126
- Grading System: Grade point Based

Grade Point description

Letter	Grade	Grade Point Description
A	4.0	Excellent
A-	3.7	
B +	3.3	
B	3.0	Good
B -	2.7	
C+	2.3	
C	2.0	Satisfactory
C-	1.7	
D+	1.3	
D	1.0	Work satisfying minimum requirement for credit
F	0	Failing

Computer Application

Courses	Credit Hours
Computer Application (Core Courses)	71 (4*2+3*21)
Elective Courses	12 (3+3+3+3)
Mathematics & Statistics Courses	9 (3+3+3)
Language Courses	6 (3+3)
Social Sciences & Management Courses	15 (3+3+3+3+3)
Projects & Internships	13 (2+2+6+3)
Total Credit Hours	126

First Year**First Semester**

SN	Course Code	Course Title	Credit Hrs.	Lecture Hrs.	Tutorial Hrs.	Lab Hrs.
1	CACS101	Computer Fundamentals & Applications	4	4	-	4
2	CASO102	Society & Technology	3	3	-	-
3	CAEN103	English I	3	3	1	-
4	CAMT104	Mathematics I	3	3	1	-
5	CACS105	Digital Logic	3	3	-	2
Total			16	16	2	7

Second Semester

1	CACS151	C Programming	4	4	1	3
2	CAAC152	Financial Accounting	3	3	1	1
3	CAEN153	English II	3	3	1	-
4	CAMT154	Mathematics II	3	3	1	-
5	CACS155	Microprocessor and Computer Architecture	3	3	1	2
Total			16	16	5	7

Second Year**Third Semester**

SN	Course Code	Course Title	Credit Hrs.	Lecture Hrs.	Tutorial Hrs.	Lab Hrs.
1	CACS201	Data Structures & Algorithms	3	3	-	3
2	CAST202	Probability and Statistics	3	3	1	1
3	CACS203	System Analysis and Design	3	3	1	-
4	CACS204	OOP in Java	3	3	1	2
5	CACS205	Web Technology	3	3	-	3
Total			15	15	3	9

Fourth Semester

1	CACS251	Operating System	3	3	1	2
2	CACS252	Numerical Methods	3	3	1	2
3	CACS253	Software Engineering	3	3	1	-
4	CACS254	Scripting Language	3	3	-	3
5	CACS255	Database Management System	3	3	1	2
6	CAPJ256	Project I	2	-	-	4
Total			17	15	4	13

Third Year**Fifth Semester**

SN	Course Code	Course Title	Credit Hrs.	Lecture Hrs.	Tutorial Hrs.	Lab Hrs.
1	CACS301	MIS and e-Business	3	3	-	2
2	CACS302	DotNet Technology	3	3	-	3
3	CACS303	Computer Networking	3	3	-	2
4	CAMG304	Introduction to Management	3	3	1	-
5	CACS305	Computer Graphics and Animation	3	3	1	2
Total			15	15	2	9

Sixth Semester

1	CACS351	Mobile Programming	3	3	-	3
2	CACS352	Distributed System	3	3	1	-
3	CAEC353	Applied Economics	3	3	1	-
4	CACS354	Advanced Java Programming	3	3	-	3
5	CACS355	Network Programming	3	3	-	2
6	CAPJ356	Project II	2	-	-	4
Total			17	15	2	12

Fourth Year**Seventh Semester**

SN	Course Code	Course Title	Credit Hrs.	Lecture Hrs.	Tutorial Hrs.	Lab Hrs.
1	CACS401	Cyber Law & Professional Ethics	3	3	1	-
2	CACS402	Cloud Computing	3	3	-	3
3	CAIN403	Internships	3	-	-	-
4		Elective I	3	3		
5		Elective II	3	3		
Total			15	12		

Eighth Semester

1	CAOR451	Operations Research	3	3	1	-
2	CAPJ452	Project III	6	-	-	12
3		Elective III	3	3		
4		Elective IV	3	3		
Total			15	9		

List of Electives

SN	Course Code	Course Title	SN	Course Code	Course Title
1	CAPS476	Applied Psychology	6	CACS482	Knowledge Engineering
2	CACS477	Geographical Information System	7	CACS483	Advanced DotNet Technology
3	CACS478	IT in Banking	8	CACS484	Database Programming
4	CACS479	Hotel Information System	9	CACS485	Database Administration
5	CAER480	Enterprise Resource Planning	10	CACS486	Network Administration

Aims of the Course

- To offer intensive knowledge in the theory, design, programming and application of computers.
- Providing an in-depth understanding of and experience with computer systems.
- Developing creative and analytical skills that provides a basis for technological problem-solving.
- Equipping students with the technical knowledge required for an IT professionals to handle multi-tasking situations and to assess and develop computer based solutions.
- Imparting knowledge of computer and programming logic environment in IT.
- Knowledge of advanced IT applications in different business sectors.
- To equip students with the technical knowledge required for an IT professional to handle multi-tasking and multiprogramming situations and to assess and develop computer based solutions.
- To provide necessary knowledge in the field of functional knowledge of hardware system and the and necessary knowledge of computer software system

Job Opportunities:

- Software Analysis
- College Lecturer/Professor
- Computer/IT analyst
- Database Administrator
- Database Developer
- Information Technology Manager
- Program Analyst
- Network Administrator

- CS Researcher
- Information Systems Manager
- Network Security Manager
- System Administrator
- Web Developer
- Web Designer
- Web Project Manager
- MIS Officer
- Project manager
- System Analyst
- And Many More

BCA @ St. Lawrence

- B.Sc. CSIT is running in St. Lawrence since 2067 BS.
- We have experience faculty
- Well equipped Computer lab and project Lab
- Class room equipped with multimedia projector
- Dedicated internet Connection
- Friendly Environment
- Different Clubs for extra activities
- Workshops and professional skill development Courses
- Internship supports
- Scholarship for Deserving Candidate

Admission Criteria

- PCL or 10+2 passed with minimum 2 CGPA(Not less Than D+ in single Subject)
- Form submission up to 12 Ashoj, 2075

- Form Submission with late fee 16 Ashoj, 2075
- Entrance Exam(written) 19 Ashoj, 2075
- Entrance Examination fee: Rs 1200