

### Title

The title of the program is Bachelor of Arts in Computer Application (BCA).

### Objective

The objective of the Bachelor of Arts in Computer Application (BCA) at the Faculty of Humanities and Social Sciences of Tribhuvan University is to produce high quality computer application users and developers.

### Duration of the Program

The program of study for Bachelor of Arts in Computer Application (BCA) is over a period of eight semesters (four academic years). The academic year begins in the September and February of each year.

### Medium of Instruction and Examination

The medium of instruction and examination in the Bachelor of Arts in Computer Application (BCA) program shall be English.

### Entry Requirement

The entry requirement for students in Bachelor of Arts in Computer Application (BCA) is Intermediate Level or Higher Secondary level (10+2) or equivalent in any discipline from a recognized institution with at least second division (45%) marks. Besides the basic academic requirement, an entrance examination will be conducted for all applicants by the concerned Dean's office.

### Admission Procedure

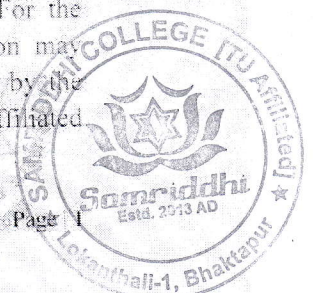
The entrance test application form and the information brochure shall be provided on request at the concerned college or department. The concerned college or department scrutinizes the applications. The eligible candidates are informed to appear in the entrance test. The exact date for the entrance test is communicated to the applicants by the concerned Dean's office. The candidates shall be admitted on merit basis. The subjects and weightage of each subject for the Entrance test will be as follow:

English: 40%; Mathematics: 50% and General Knowledge: 10%

The college may also hold interviews for the candidates before their final selection for admission. The candidates, who are given provisional admission pending submission of the qualifying certificates, are required to submit all necessary documents within a week of the beginning of regular classes. Otherwise, the admission will be annulled.

### Academic Schedule

The academic session of the University consists of two semesters per year. The Fall semester begins in September and the Spring Semester begins in February. For the Bachelor of Arts in Computer Application (BCA) program, student admission may commence either in the Fall semester or in the Spring semester, as approved by the university. Tribhuvan University publishes its yearly academic calendar. The affiliated colleges are required to follow the calendar.





## Bachelor of Arts in Computer Application (BCA) Course Structure

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)
<b>Total Credit Hours</b>	<b>126</b>

### 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	1
5	CACS105	Digital Logic	3	3	-	2
<b>Total</b>			<b>16</b>	<b>16</b>	<b>2</b>	<b>7</b>

#### 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	1
5	CACS155	Microprocessor and Computer Architecture	3	3	1	2
<b>Total</b>			<b>16</b>	<b>16</b>	<b>5</b>	<b>7</b>

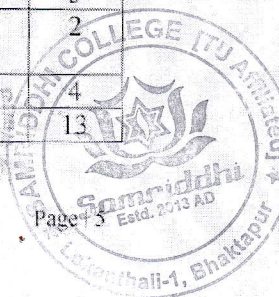
### Second Year

#### 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
<b>Total</b>			<b>15</b>	<b>15</b>	<b>3</b>	<b>9</b>

#### 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
<b>Total</b>			<b>17</b>	<b>15</b>	<b>4</b>	<b>13</b>





**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
<b>Total</b>			<b>15</b>	<b>15</b>	<b>2</b>	<b>9</b>

**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
<b>Total</b>			<b>17</b>	<b>15</b>	<b>2</b>	<b>12</b>

**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		
<b>Total</b>			<b>15</b>	<b>12</b>		

**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		
<b>Total</b>			<b>15</b>	<b>9</b>		

**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