TRIBHUVAN UNIVERSITY

Faculty of Humanities and Social Sciences • Bachelor of Computer Application (BCA)

Course Structure • New Syllabus (2082)

Year 1st / Semester I

Credits: 16 Cr.

SN	Course Code	Course Name	Credit (Cr)	Lecture (L)	Tutorial (T)	Practical (P)
1	BCA 101	Computer Fundamentals and Applications	3	3	-	3
2	BCA 102	Programming in C	3	3	-	3
3	BCA 103	Digital Logic	3	3	-	3
4	BCA 104	Mathematics-I	3	3	1	1
5	BCA 105	Professional Communication and Ethics	3	3	2	-
6	BCA 106	Hardware Workshop	1	-	-	2
		Total:	**16**	**15**	**3**	**12**

Year 1st / Semester II

Credits: 16 Cr.

SN	Course Code	Course Name	Credit (Cr)	Lecture (L)	Tutorial (T)	Practical (P)
1	BCA 151	Discrete Structure	3	3	-	3
2	BCA 152	Microprocessor and Computer Architecture	3	3	-	3
3	BCA 153	OOP in Java	3	3	-	3
4	BCA 154	Mathematics-II	3	3	1	1
5	BCA 155	UX/UI Design	3	3	-	3
6	BCA 156	Principle of Management	3	3	-	-
		Total:	**18**	**18**	**1**	**13**

Year 2nd / Semester III

Credits: 17 Cr.

SN	Course Code	Course Name	Credit (Cr)	Lecture (L)	Tutorial (T)	Practical (P)
1	BCA 201	Data Structure and Algorithms	3	3	-	3
2	BCA 202	Database Management System	3	3	-	3
3	BCA 203	Web Technology-I	3	3	-	3
4	BCA 204	System Analysis and Design	3	3	-	3
5	BCA 205	Probability and Statistics	3	3	-	3
6	BCA 206	Applied Economics	2	2	-	-
		Total:	**17**	**17**	**-**	**15**

Year 2nd / Semester IV

Credits: 17 Cr.

SN	Course Code	Course Name	Credit (Cr)	Lecture (L)	Tutorial (T)	Practical (P)
1	BCA 251	Operating Systems	3	3	-	3
2	BCA 252	Software Engineering	3	3	-	3
3	BCA 253	Numerical Methods	3	3	-	3
4	BCA 254	Python Programming	3	3	-	3
5	BCA 255	Web Technology-II	3	3	-	3
6	BCA 256	Project-I	2	-	-	4
		Total:	**17**	**15**	**-**	**19**

Downloaded from https://www.tunoteshub.me

Year 3rd / Semester V

Credits: 18 Cr.

SN	Course Code	Course Name	Credit (Cr)	Lecture (L)	Tutorial (T)	Practical (P)
1	BCA 301	Computer Network	3	3	-	3
2	BCA 302	Artificial Intelligence	3	3	-	3
3	BCA 303	Advance Java Programming	3	3	-	3
4	BCA 304	MIS and e-Business	3	3	-	3
5	BCA 305	Society and Technology	3	3	2	-
6	BCA 306	Project-II	3	-	-	6
		Total:	**18**	**15**	**2**	**18**

Year 3rd / Semester VI

Credits: 17 Cr.

SN	Course Code	Course Name	Credit (Cr)	Lecture (L)	Tutorial (T)	Practical (P)
1	BCA 351	Computer Graphics and Animation	3	3	-	3
2	BCA 352	Mobile Programming	3	3	-	3
3	BCA 353	Cryptography and Network Security	3	3	-	3
4	BCA 354	Technical Writing	2	2	2	-
5	BCA 355	Distributed System	3	3	-	3
6	BCA 356	Project-III	3	-	-	6
		Total:	**17**	**15**	**2**	**18**

Year 4th / Semester VII

Credits: 17 Cr.

SN	Course Code	Course Name	Credit (Cr)	Lecture (L)	Tutorial (T)	Practical (P)
1	BCA 401	Cyber Security and Ethical Hacking	3	3	-	3
2	BCA 402	Software Project Management	3	3	-	3
3	BCA 403	Financial Accounting	2	2	-	-
4	BCA 404	Project-IV	3	-	-	6
5	BCA 405	Elective-I	3	3	-	3
6	BCA 406	Elective-II	3	3	-	3
		Total:	**17**	**14**	**-**	**18**

Elective I (Any One)

1	BCA 405-I	Machine Learning	3 Cr
2	BCA 405-II	E-Commerce	3 Cr
3	BCA 405-III	Database Administration	3 Cr
4	BCA 405-IV	Linux	3 Cr

Elective II (Any One)

1	BCA 406-I	Dotnet Technology	3 Cr
2	BCA 406-II	Business Intelligence	3 Cr
3	BCA 406-III	Software Testing and QA	3 Cr
4	BCA 406-IV	Data Visualization	3 Cr

Year 4th / Semester VIII

Credits: 12 Cr.

SN	Course Code	Course Name	Credit (Cr)	Lecture (L)	Tutorial (T)	Practical (P)
1	BCA 451	Cloud Computing	3	3	-	3
2	BCA 452	Internship	3	-	-	-
3	BCA 453	Elective-III	3	3	-	3
4	BCA 454	Elective-IV	3	3	-	3

Downloaded from https://www.tunoteshub.me