

BACHELOR OF COMPUTER SCIENCE PROGRAMME STRUCTURE

LEGEND	
Item	Description
C	Credits
E	External Component
I	Internal Component
L	Lecture Hours
P	Practical Hours
T	Total

Semester I									
No	Course Code	Course Name	C	Marks			Hrs/wk		
				I	E	T	L	P	T
01	A01	Common English	3	15	60	75	5	0	5
02	A02	Common English	3	15	60	75	4	0	4
03	A07	Languages other than English	4	20	80	100	5	0	5
04	BCS1B01	Computer Fundamentals & HTML	3	15	60	75	1	2	3
05	XXXXC01	Complementary Mathematics I	3	15	60	75	4	0	4
06	XXXXC01	Optional Complementary I	3	15	60	75	4	0	4
Total			19			475	23	2	25

Semester II

No	Course Code	Course Name	C	Marks			Hrs/wk		
				I	E	T	L	P	T
07	A03	Common English	4	20	80	100	5	0	5
08	A04	Common English	4	20	80	100	4	0	4
09	A08	Literature in Languages other than English	4	20	80	100	5	0	5
10	BCS2B02	Problem Solving using C	3	15	60	75	1	2	3
11	BCS2B03	Programming Laboratory I: HTML and Programming in C	4	20	80	100	0	0	0
12	XXXXC02	Complementary Mathematics II	3	15	60	75	4	0	4
13	XXXXC02	Optional Complementary II	3	15	60	75	4	0	4
Total			25			625	23	2	25

Semester III

No	Course Code	Course Name	C	Marks			Hrs/wk		
				I	E	T	L	P	T
14	A11	Python Programming	4	20	80	100	4	0	4
15	A12	Data Communication and Optical Fibres	4	20	80	100	4	0	4
16	BCS3B04	Data Structures using C	3	15	60	75	3	4	7
17	XXXX C03	Complementary Mathematics III	3	15	60	75	5	0	5
18	XXXX C03	Optional Complementary III	3	15	60	75	5	0	5
Total			17			425	21	4	25

IV SEM →

Semester IV

SEM → 20

No	Course Code	Course Name	Credit	Marks			Hrs/wk		
				I	E	T	L	P	T
19	A13	Microprocessors Architecture and Programming	4	20	80	100	4	0	4
20	A14	Sensors and Transducers	4	20	80	100	4	0	4
21	BCS4B05	Database Management System and RDBMS	3	15	60	75	3	4	7
22	BCS4B06	Programming Laboratory II: Data Structures and RDBMS	4	20	80	100	0	0	0
23	XXXXC04	Complementary Mathematics IV	3	15	60	75	5	0	5
24	XXXXC04	Optional Complementary IV	3	15	60	75	5	0	5
Total			21			525	21	4	25

Semester V

No	Course Code	Course Name	Credit	Marks			Hrs/wk		
				I	E	T	L	P	T
25	BCS5B07	Computer Organization and Architecture	3	15	60	75	4	0	4
26	BCS5B08	Java Programming	3	15	60	75	3	3	6
27	BCS5B09	Web Programming Using PHP	3	15	60	75	3	3	6
28	BCS5B10	Principles of Software Engineering	3	15	60	75	4	0	4
29	XXX5DXX	Open Course	3	15	60	75	3	0	3
		Industrial Visit							
		Project Work	0				0	2	2
Total			15			375	17	8	25

List of Open Courses (XXX5DXX)

No	Course Code	Course Name
29	BCS5D01	Introduction to Computers and Office Automation
29	BCS5D02	Web Designing
29	BCS5D03	Introduction to Problem Solving and C Programming
29	BCS5D04	Introduction to Data Analysis using spread sheet

Semester VI

No	Course Code	Course Name	Credit	Marks			Hrs/wk		
				I	E	T	L	P	T
30	BCS6B11	Android Programming	3	15	60	75	4	3	7
31	BCS6B12	Operating Systems	3	15	60	75	4	3	7
32	BCS6B13	Computer Networks	3	15	60	75	5	0	5
33	BCS6B14	Programming Laboratory III: Java and PHP Programming	4	20	80	100	0	0	0
34	BCS6B15	Programming Laboratory IV: Android and Linux shell Programming	4	20	80	100	0	0	0
35	BCS6B16X	Elective Course	3	15	60	75	4	0	4
36	BCS6B17	Industrial Visit & Project Work (Industrial Visit- 1 Credit, Project Work- 2 Credit)	3	20	80	100	0	2	2
Total			23			600	17	8	25

List of Electives (BCS5B17X)

No	Course Code	Course Name
35	BCS6B16A	System Software
35	BCS6B16B	Machine Learning
35	BCS6B16C	Discrete Structures

B.Sc. Computer Science (Academic year 2019-20 onwards)

35	BCS6B16D	Computer Graphics
35	BCS6B16E	Technical Writing
35	BCS6B16F	Fundamentals of Life Skill Education