

SHREYARTH UNIVERSITY
School of Computer Science and Applications
Bachelors of Computer Applications (BCA)-NEP
Teaching Scheme W.E.F-2023

BCA, BCA (Hons.) Semester - 1

Sr. No	Semester	Course Code	Course Name	Curricular	Teaching Scheme					Exam Scheme		
					Lecture	Tutorial	Practical	Credit	Contact	CCE	SEE	Total
1	I	CSM101-1C	Fundamental Concepts of	Major Course-1	2	1	2	4	5	50	50	100
2	I	CSM102-1C	Introduction to Web Designing	Major Course-2	2	1	2	4	5	50	50	100
3	I	CSE101-1C	Computer Organization and Digital	Minor Course-1	4	0	0	4	4	50	50	100
4	I	MDC102-1C	Fundamentals of Mathematics	MDC-1	3	1	0	4	4	50	50	100
5	I	AEC101-1C	Basics of English Grammar	AEC-1	2	0	0	2	2	25	25	50
6	I	SEC101-1C	Soft Skills	SEC-1	2	0	0	2	2	25	25	50
7	I	IKS101-1C	Indian Knowledge System	IKS-1	2	0	0	2	2	25	25	50
Total								22		275	275	550

BCA, BCA (Hons.) Semester - 2

Sr. No	Semester	Course Code	Course Name	Curricular	Teaching Scheme					Exam Scheme		
					Lecture	Tutorial	Practical	Credit	Contact	CCE	SEE	Total
1	II	CSM105-1C	Advance Programming language	Major Course-1	3	0	1	4	5	50	50	100
2	II	CSM106-1C	Database Management System	Major Course-2	3	0	1	4	5	50	50	100
3	II	CSE103-1C	Web application Development	Minor Course-1	3	0	1	4	5	50	50	100
4	II	MDC105-1C	Linear algebra	MDC-1	4	0	0	4	4	50	50	100
5	II	AEC103-1C	Visual Design	AEC-1	0	0	2	2	4	25	25	50
6	II	SEC103-1C	Communication Skills	SEC-1	2	0	0	2	2	25	25	50
7	II	VAC101-1C	Yoga and Nutritions	VAC-1	0	1	2	2	3	25	25	50
Total								22		275	275	550

BCA, BCA (Hons.) Semester - 3

Sr. No	Semester	Course Code	Course Name	Curricular	Teaching Scheme					Exam Scheme		
					Lecture	Tutorial	Practical	Credit	Contact	CCE	SEE	Total
1	III		Object Oriented Programming	Major Course-1	3	0	1	4	5	50	50	100
2	III		Data Structures	Major Course-2	3	0	1	4	5	50	50	100
3	III		Advanced Database Management System	Major Course-3	3	0	1	4	5	50	50	100
4	III		Discrete Maths	MDC-1	3	1	0	4	4	50	50	100
5	III		Cyber Security	AEC-1	0	0	2	2	4	25	25	50
6	III		Digital Marketing	SEC-1	2	0	0	2	2	25	25	50
7	III		Indian Knowledge System II	VAC-1	2	0	0	2	2	25	25	50
Total								22		275	275	550

BCA, BCA (Hons.) Semester - 4												
Sr. No	Semester	Course Code	Course Name	Curricular Component	Teaching Scheme					Exam Scheme		
					Lecture	Tutorial	Practical	Credit	Contact Hours	CCE	SEE	Total
1	IV		Introduction to Operating Systems	Major Course-1	3	0	1	4	5	50	50	100
2	IV		Introduction to Core Java	Major Course-2	3	0	1	4	5	50	50	100
3	IV		Introduction to Python	Major Course-3	3	0	1	4	5	50	50	100
4	IV		Unified Modelling Language	MDC-1	4	0	0	4	4	50	50	100
5	IV		Numerical Methods	AEC-1	1	1	0	2	2	25	25	50
6	IV		Statistical Skills	SEC-1	1	1	0	2	2	25	25	50
7	IV		Environmental Science	VAC-1	2	0	0	2	2	25	25	50
Total								22		275	275	550

BCA, BCA (Hons.) Semester - 5												
Sr. No	Semester	Course Code	Course Name	Curricular Component	Teaching Scheme					Exam Scheme		
					Lecture	Tutorial	Practical	Credit	Contact Hours	CCE	SEE	Total
1	V		Advanced Java	Major Course-1	3	0	1	4	5	50	50	100
2	V		PROJECT	Major Course-2	0	0	4	4	8	50	50	100
3	V		Data Communication and Networking	Major Course-3	4	0	0	4	4	50	50	100
4	V		PHP with MySQL	MDC-1	3	0	1	4	5	50	50	100
5	V		Linux Shell Scripting	MDC-2	3	0	1	4	5	50	50	100
6	V		Network Security	SEC-1	2	0	0	2	2	25	25	50
Total								22		275	275	550

BCA, BCA (Hons.) Semester - 6												
Sr. No	Semester	Course Code	Course Name	Curricular Component	Teaching Scheme					Exam Scheme		
					Lecture	Tutorial	Practical	Credit	Contact Hours	CCE	SEE	Total
1	VI		Cloud Computing	Major Course-1	3	0	1	4	5	50	50	100
2	VI		Mobile Application Development	Major Course-2	3	0	1	4	5	50	50	100
3	VI		Information Security	Major Course-3	4	0	0	4	4	50	50	100
4	VI		Foundation of Artificial Intelligence	MDC-1	4	0	0	4	4	50	50	100
5	VI		Web Technologies	AEC-1	0	0	2	2	4	25	25	50
6	VI		Internship					4				
Total								22		225	225	450

BCA (Hons.) Semester - 7												
Sr. No	Semester	Course Code	Course Name	Curricular Component	Teaching Scheme					Exam Scheme		
					Lecture	Tutorial	Practical	Credit	Contact Hours	CCE	SEE	Total
1	VII		Foundation of Machine Learning	Major Course-1	3	0	1	4	5	50	50	100
2	VII		Internet of Things	Major Course-2	3	0	1	4	5	50	50	100
3	VII		Software Project Management	Major Course-3	4	0	0	4	4	50	50	100
4	VII		Advanced Data Structures	MDC-1	3	0	1	4	5	50	50	100
6	VII		On the Job Training		0	0	0	6	0	50	50	100
Total								22		250	250	500

BCA (Hons.) Semester - 8												
Sr. No	Semester	Course Code	Course Name	Curricular Component	Teaching Scheme					Exam Scheme		
					Lecture	Tutorial	Practical	Credit	Contact Hours	CCE	SEE	Total
1	VIII		Programming with NoSQL	Major Course-1	3	0	1	4	5	50	50	100
2	VIII		Image Processing	Major Course-2	4	0	0	4	4	50	50	100
3	VIII		Distributed Operating Systems	Major Course-3	4	0	0	4	4	50	50	100
4	VIII		Introduction to Block Chain	MDC-1	4	0	0	4	4	50	50	100
6	VIII		On the Job Training		0	0	0	6	0	50	50	100
Total								22		200	200	400