



Bachelor of Computer Application
3 Years Programme

w.e.f. 2020-21

Programme Structure

University Campus

**JagaNath University State highway 22, Bahadurgarh-Jhajjar Road Jhajjar,
Haryana , 124507**

PROGRAMME STRUCTURE

Semester I

Paper Code	Title	Hrs/week		Credit		Total Credit	Marks ESE	Practical	Marks CE	Total Marks
		L/T	PR	L/T	PR					
BCA101	Foundation course in English	3	-	3	-	3	70	-	30	100
BCA102	Foreign Language – French-I	3	-	3	-	3	70	-	30	100
BCA103	Maths-I	3	-	3	-	3	70	-	30	100
BCA104	Foundation of Management	3	-	3	-	3	70	-	30	100
BCA105	Fundamental of Computer and Skills	3	2	3	1	4	70	50	30	150
BCA106	Programming in C	4	4	4	2	6	70	50	30	150
BCA107	Digital Electronics	4	-	4	-	4	70	-	30	100
BCA108	Web Design and publishing	3	2	3	1	4	70	-	30	100
	Total	26	8	26	4	30	560	100	240	900

Semester II

Paper Code	Title	Hrs/week		Credit		Total Credit	Marks ESE	Practical	Marks CE	Total Marks
		L/T	PR	L/T	PR					
BCA201	Communication Skills	2	-	2	-	2	70	-	30	100
BCA202	Maths-II	4	-	4	-	4	70	-	30	100
BCA203	Management Information System	3	-	3	-	3	70	-	30	100
BCA204	Foreign Language - French II	3	-	3	-	3	70	-	30	100
BCA205	Programming and Problem Solving Through Python	4	2	4	1	5	70	50	30	150
BCA206	Computer Organization	4	-	4	-	4	70	-	30	100
BCA207	Introduction to Internet of Things and its Applications	4		4	-	4	70	-	30	100
BCA208	Programming in C++	4	2	4	1	5	70	50	30	150
	Total	28	4	28	2	30	560	100	240	900

Semester III

Paper Code	Title	Hrs/week		Credit		Total Credit	Marks ESE	Practical	Marks CE	Total Marks
		L/T	PR	L/T	PR					
BCA301	Environmental Studies	2	-	2	-	2	70	-	30	100
BCA302	Systems Analysis and Design	5	-	5	-	5	70	-	30	100
BCA303	System Software	5	-	5	-	5	70	-	30	100
BCA304	Data and File Structures Through Object Oriented Programming Language	3	2	3	1	4	70	50	30	150
BCA305	Database Management Systems	3	2	3	1	4	70	-	30	100
BCA306	Introduction to Multimedia	3	2	3	1	4	70	50	30	150
BCA307	Operating Systems	3	-	3	-	3	70	-	30	100
BCA308	Industrial training Report & Presentation-I	-	6	-	3	3	100	-	-	100
	Total	24	12	24	6	30	590	100	210	900

Semester IV

Paper Code	Title	Hrs/week		Credit		Total Credit	Marks ESE	Practical	Marks CE	Total Marks
		L/T	PR	L/T	PR					
BCA401	Statistical Techniques using Excel	4	-	4	-	4	70	-	30	100
BCA402	Computer Graphics	4	-	4	-	4	70	-	30	100
BCA403	Introduction to Algorithm Design	4	-	4	-	4	70	-	30	100
BCA404	Fundamentals of Web Programming Using Java	3	2	3	1	4	70	50	30	150
BCA405	Fundamentals of Computer Networks	3	-	3	-	3	70	-	30	100
BCA406	Web Application Using PHP	2	2	2	1	3	70	50	30	150
BCA407	Linux Programming	3	2	3	1	4	70	50	30	150
BCA408	Advance Database Technologies	3	2	3	1	4	70	50	30	150
	Total	26	8	26	4	30	560	200	240	1000

Semester V

Paper Code	Title	Hrs/week		Credit		Total Credit	Marks ESE	Practical	Marks CE	Total Marks
		L/T	PR	L/T	PR					
BCA501	Personality Development and Interview Techniques	4	-	4	-	4	70	-	30	100
BCA502	Software Engineering	4	-	4	-	4	70	-	30	100
BCA503	Computer Oriented Numerical Techniques	4	-	4	-	4	70	-	30	100
BCA504	Advance Computer Networks	3	-	3	-	3	70	-	30	100
BCA505	Advance Java Programming	3	2	3	1	4	70	50	30	150
BCA506	Dot Net Programming	3	2	3	1	4	70	50	30	150
BCA507	Internet and Web Technologies	3	2	3	1	4	70	50	30	150
BCA508	Industrial training Report & Presentation-II	-	6	-	3	3	100	-	-	100
	Total	24	12	24	6	30	590	150	210	950

Semester VI

Paper Code	Title	Hrs/week		Credit		Total Credit	Marks ESE	Practical	Marks CE	Total Marks
		L/T	PR	L/T	PR					
BCA601	Entrepreneurship Development	3	-	3	-	3	70	-	30	100
BCA602	E-Commerce and Cyber Ethics	3	-	3	-	3	70	-	30	100
BCA603	Data Warehousing and Data Mining	3	-	3	-	3	70	-	30	100
BCA604	Computer Network and Information Security Management	3	-	3	-	3	70	-	30	100
BCA605	Software Testing	4	4	4	2	6	70	-	30	100
BCA606	Artificial Intelligence using Python	4	2	4	1	5	70	-	30	100
BCA607	Mobile Computing	5	-	5	-	5	70	-	30	100
BCA608	Final Project	-	4	-	2	2	100	-	-	100
	Total	25	10	25	5	30	590	-	210	800