

PROPOSED SCHEME OF INSTRUCTION
BACHELOR OF COMPUTER APPLICATIONS(BCA)

SEMESTER- I -VI

Sem	Generic Code *	Course code *	Course Title	P P W	Cred it	C I A	E S E	Passing minimum in	
								ES E	Aggregat e
I	BCA1	BCA101	Programming in C	4	4	30	70	28	40
	BCA2	BCA102	Introduction to Web Technology	4	4	30	70	28	40
	BCA3	BCA103	Digital Principles	4	4	30	70	28	40
	BCA4	BCA104	Effective Communication	4	4	30	70	28	40
	BCA5	BCA105	Mathematical Foundations of Computer Science	4	4	30	70	28	40
	BCA1-Pr	BCA111	Programming in C Lab	3	1	15	35	14	20
	BCA2-Pr	BCA112	Web Technology Lab	3	1	15	35	14	20
	BCA3-Pr	BCA113	IT Workshop	3	1	15	35	14	20
					23				
	BCA1	BCA201	Object Oriented Programming using CPP	4	4	30	70	28	40
	BCA2	BCA202	Data Structures	4	4	30	70	28	40
	BCA3	BCA203	Computer Architecture	4	4	30	70	28	40
	BCA4	BCA204	Computer Networks	4	4	30	70	28	40

II	BCA5	BCA205	Fundamentals of Probability and Statistics	4	4	30	70	28	40
	BCA1-Pr	BCA211	Object Oriented Programming using CPP Lab	3	1	15	35	14	20
	BCA2-Pr	BCA212	Data Structures Lab	3	1	15	35	14	20
	BCA3-Pr	BCA216	Effective Communication Lab	3	1	15	35	14	20
					23				
III	BCA1	BCA301	Java Programming	4	4	30	70	28	40
	BCA2	BCA302	Operating System Concepts	4	4	30	70	28	40
	BCA2	BCA303	Database Design	4	4	30	70	28	40
	BCA4	BCA304	Environmental Science	4	4	30	70	28	40
	BCA5	BCA305	Applied Mathematics	4	4	30	70	28	40
	BCA1-Pr	BCA311	Java Programming Lab	3	1	15	35	14	20
	BCA2-Pr	BCA312	Operating System Concepts Lab	3	1	15	35	14	20
	BCA3-Pr	BCA313	Database Design Lab	3	1	15	35	14	20
				23					
IV	BCA1	BCA401	Data Science using Python	4	4	30	70	28	40
	BCA2	BCA402	Software Engineering	4	4	30	70	28	40
	BCA3	BCA403	Advanced Computer Network	4	4	30	70	28	40

	BCA4	BCA404	Distributed and Cloud Computing	4	4	30	70	28	40
	BCA5	BCA405	Artificial Intelligence	4	4	30	70	28	40
	BCA1-Pr	BCA411	Data Science using Python Lab	3	1	15	35	14	20
	BCA2-Pr	BCA412	Software Engineering Lab	3	1	15	35	14	20
	BCA3-Pr	BCA413	Computer Network Lab	3	1	15	35	14	20
					23				
V	BCA1	BCA501	Programming using ASP. NET	4	4	30	70	28	40
	BCA2	BCA502	Unix Programming	4	4	30	70	28	40
	BCA3	BCA503	Object Oriented Analysis Design	4	4	30	70	28	40
	BCA4	BCA504	Software Quality Testing	4	4	30	70	28	40
	Elective-I	BCA505A	Mobile Application Development	4	4	30	70	28	40
		BCA505B	Internet Protocols	4	4	30	70	28	40
		BCA505C	Data Mining	4	4	30	70	28	40
	BCA1-Pr	BCA511	DOT NET Lab	3	1	15	35	14	20

	BCA2-Pr	BCA512	Unix Programming Lab	3	1	15	35	14	20
	BCA3-Pr	BCA513	OOSD Lab	3	1	15	35	14	20
					27				
VI	BCA1	BCA601	Advanced JAVA	4	4	30	70	28	40
	BCA2	BCA602	Information Security	4	4	30	70	28	40
	Elective -II	BCA603A	Big Data Analytics	4	4	30	70	28	40
		BCA603B	Artificial Intelligence	4	4	30	70	28	40
		BCA603C	Cloud Computing	4	4	30	70	28	40
		BCA611	Advanced Java Programming-Lab	3	1	15	35	14	20
		BCA612	Project work	3	1	15	35	14	20
					22				