

I Semester BCA w.e.f 2024-25 and onwards									
Part	Course Code	Subject Name	Teaching Hrs / week	Practical Hrs / week	Exam Duration Hrs	Examination Marks			Credits
						IA	Theory / Practical	Total	
Part I AECC	SEPBCAAEC 1.1	Language 1	4	-	3	20	80	100	3
	SEPBCAAEC 1.2	Language 2	4	-	3	20	80	100	3
Part II DSC	SEPBCAT1.3	Computer Concepts and C Programming	4	-	3	20	80	100	3
	SEPBCAT1.4	Database Management System	4	-	3	20	80	100	3
	SEPBCAT1.5(a) / SEPBCAT1.5(b)*	Accountancy / Mathematics-I	4	-	3	20	80	100	3
	SEPBCAP1.6	Programming Lab	-	4	3	10	40	50	2
	SEPBCAP1.7	Database Management System Lab	-	4	3	10	40	50	2
	SEPBCAP1.8	Office Automation lab	-	4	3	10	40	50	2
Part III SEC	SEPBCAAEC 1.9	Compulsory 1 (Constitutional Values)	2	-	2	10	40	50	2
Total			22	12				700	23

II Semester BCA w.e.f 2024-25 and onwards									
Part	Course Code	Subject Name	Teaching Hrs / week	Practical Hrs / week	Exam Duration Hrs	Examination Marks			Credits
						IA	Theory / Practical	Total	
Part I AECC	SEPBCAAEC 2.1	Language 1	4	-	3	20	80	100	3
	SEPBCAAEC 2.2	Language 2	4	-	3	20	80	100	3
Part II DSC	SEPBCAT 2.3	Data Structures and Algorithms	4	-	3	20	80	100	3
	SEPBCAT 2.4	Numerical and Statistical Methods	4	-	3	20	80	100	3
	SEPBCAT 2.5	Object Oriented Programming Using Java	4	-	3	20	80	100	3
	SEPBCAP 2.6	Data Structures and Algorithms Lab	-	4	3	10	40	50	2
	SEPBCAP 2.7	Numerical and Statistical Methods Lab	-	4	3	10	40	50	2
	SEPBCAP 2.8	Object Oriented Programming Using Java Lab	-	4	3	10	40	50	2
Part III SEC	SEPBCAAEC 2.9	Compulsory 2 (Constitutional Values)	2	-	2	10	40	50	2
Total			22	12				700	23

Curriculum Structure for BCA III and IV Program of RCUB as per NEP 2020 w.e.f. 2022-23									
SEMESTER-3									
Category	Course code	Title of the Paper	Marks			Teaching hours/week			Credit
			IA	SEE	Total	L	T	P	
L-5	21BCA3L5LK3	Kannada	40	60	100	4	0	0	3
	21BCA3L5LFK3	Functional Kannada							
L-6	21BCA3L6EN3	English							
	21BCA3L6HI3	Hindi	40	60	100	4	0	0	3
	21BCA3L6SN3	Sanskrit							
	21BSC3L6TE3	Telugu							
	21BCA3L6UR3	Urdu							
DSC7	21BCA3C7L	Database Management System	40	60	100	3	0	0	3
	21BCA3C7P	DBMS Lab	25	25	50	0	0	3	2
DSC8	21BCA3C8L	C# and .Net Framework	40	60	100	3	0	0	3
	21BCA3C8P	C# and .Net Framework Lab	25	25	50	0	0	3	2
DSC9	21BCA3C9L	Computer Communication and Networks	40	60	100	3	0	0	3
OE3	21BCA3O3PCL	Python Programming Concepts	40	60	100	3	0	0	3
AECC2	21BCA3AE2CIL	Constitution of India	20	30	50	1	0	2	2
VBC5	21BCA3V3PE3	Physical Education – Sports	25	-	25	-	-	2	1
VBC6	21BCA3V6NC2	NCC/NSS/R&R(S&G) / Cultural	25	-	25	-	-	2	1
Total Marks			800			Semester Credits			26

SEMESTER-4									
Category	Course code	Title of the Paper	Marks			Teaching hours/week			Credit
			IA	SEE	Total	L	T	P	
L-7	21BCA4L7LK4	Kannada	40	60	100	4	0	0	3
	21BCA4L7LFK4	Functional Kannada							
L-8	21BCA4L8EN4	English							
	21BCA4L8HI4	Hindi	40	60	100	4	0	0	3
	21BCA4L8SN4	Sanskrit							
	21BSC4L8TE4	Telugu							
	21BCA4L8UR4	Urdu							
DSC10	21BCA4C10L	Python Programming	40	60	100	3	0	0	3
	21BCA4C10P	Python Programming Lab	25	25	50	0	0	3	2
DSC11	21BCA4C11L	Multimedia & Animation	40	60	100	3	0	0	3
	21BCA4C11P	Multimedia & Animation Lab	25	25	50	0	0	3	2
DSC12	21BCA4C12L	Operating System Concepts	40	60	100	3	0	0	3
OE4	21BCA4O4ECL	Financial Education and Investment Awareness	20	30	50	3	-	-	2
SEC2	21BCA4SE2OST	Open Source Tools	20	30	50	1	0	2	2
VBC7	21BCA4V7PE4	Physical Education – Sports	25	-	25	-	-	2	1
VBC8	21BCA4V8NC3	NCC/NSS/R&R(S&G) / Cultural	25	-	25	-	-	2	1
Total Marks			750			Semester Credits			25
Exit option with Diploma in Computer Applications (with the completion of courses equivalent to a minimum of 96 credits)			3150			II year Credits			103

SEMESTER-5									
Category	Course code	Title of the Paper	Marks			Teaching hours/week			Credit
			IA	SEE	Total	L	T	P	
DSC13	21BCA5C13L	Design & Analysis of Algorithms	40	60	100	4	0	0	4
	21BCA5C13P	Design & Analysis of Algorithms Laboratory	25	25	50	0	0	3	2
DSC14	21BCA5C14L	Statistical Computing and R Programming	40	60	100	4	0	0	4
	21BCA5C14P	R Programming Lab	25	25	50	0	0	3	2
DSC15	21BCA5C15L	Software Engineering	40	60	100	4	0	0	4
DSE-E1	21BCA5DE1AL	Information Security & Cryptography							
	21BCA5DE1BL	Cloud Computing	40	60	100	3	0	0	3
	21BCA5DE1CL	Business Intelligence							
VC1	21BCA5VC1AL	Digital Marketing	40	60	100	3	0	0	3
SEC3	21BCA5SE3L	Cyber Security	20	30	50	2	0	2	3
Total Marks			650			Semester Credits			25

SEMESTER-6									
Category	Course code	Title of the Paper	Marks			Teaching hours/week			Credit
			IA	SEE	Total	L	T	P	
DSC16	21BCA6C16L	PHP and MySQL	40	60	100	4	0	0	4
	21BCA6C16P	PHP and MySQL LAB	25	25	50	0	0	3	2
DSC17	21BCA6C17L	Artificial Intelligence and Applications	40	60	100	4	0	0	4
DSC18	21BCA6C18P	Project Work	50	100	150	0	0	10	6
DSE-E2	21BCA6DE2AL	Fundamentals of Data Science							
	21BCA6DE2BL	Mobile Application Development	40	60	100	3	0	0	3
	21BCA6DE2CL	Embedded Systems							
VC2	21BCA6VC2AL	Web Content Management System	40	60	100	3	0	0	3
INT	21BCA6INT1	Internship	50	-	50	-	-	2	
Total Marks			650			Semester Credits			24
Exit Option with Bachelor of Computer Applications Degree, BCA Degree (with completion of courses equivalent to a minimum of 136 credits)			4100			Total Credits for BCA Program			152