



RCC Institute of Information Technology, Kolkata
(Autonomous from Academic Session: 2024 – 2025)

Syllabus: Bachelor of Computer Application (BCA)

First Semester							
Sl. No.	Category	Course Code	Course Name	Contact Hours			Credits
				L	T	P	
1	Major (Offline)	RCC-BCA101	Programming for Problem Solving using C	3	0	0	5
2		RCC-BCA191	Programming for Problem Solving using C Lab	0	0	4	
3		RCC-BCA102	Digital Electronics	3	0	0	5
4		RCC-BCA192	Digital Electronics Lab	0	0	4	
5	Minor (Blended Mode)	RCC-MIM101	Principles of Management	3	0	0	3
6	Multi-Disciplinary (Offline)	RCC-MDM101	Basic Mathematics	3	0	0	3
7	Ability Enhancement (Offline)	RCC-AEC101	General English	2	0	0	2
8	Skill Enhancement (Online/Sessional)	RCC-SEC181	IT Skills	2	0	0	2
9	Common Value-added Course (Sessional)	RCC-VAC181A/ RCC-VAC181B/ RCC- VAC181C	Yoga/ Sports/ Community Services	0	0	4	2
10	Common Value-added Course (Sessional)	RCC-VAC182	Mental Wellness	0	0	0	0
Total							22
Second Semester							
Sl. No.	Category	Course Code	Course Name	Contact Hours			Credits
				L	T	P	
1	Major (Offline)	RCC-BCA201	Data Structure through C	3	0	0	5
2		RCC-BCA291	Data Structure through C Lab	0	0	4	
3		RCC-BCA202	Computer Architecture	3	0	0	5
4		RCC-BCA292	Computer Architecture Lab	0	0	4	
5	Minor (Blended Mode)	RCC-MIM201	Organization Behaviour	3	0	0	3
6	Multi-Disciplinary (Offline)	RCC-MDM201	Applications of Multimedia	3	0	0	3
7	Ability Enhancement (Offline)	RCC-AEC201	Technical & Professional Communication	2	0	0	2
8	Skill Enhancement (Online / Sessional)	RCC-SEC281	Design Thinking	2	0	0	2
9	Common Value-added Course (Sessional)	RCC-VAC281A /RCC-VAC281B	Environmental Studies NSS	2	0	0	2
Total							22



RCC Institute of Information Technology, Kolkata
(Autonomous from Academic Session: 2024 – 2025)

Syllabus: Bachelor of Computer Application (BCA)

Third Semester							
Sl. No.	Category	Course Code	Course Name	Contact Hours			Credits
				L	T	P	
1	Major (Offline)	RCC-BCA301	Objects Oriented Programming with Java	3	0	0	5
2		RCC-BCA391	Objects Oriented Programming with Java Lab	0	0	4	
3		RCC-BCA302	Basics of Web Design Using Html CSS, JavaScript	3	0	0	5
4		RCC-BCA392	Basics of Web Design Using Html, CSS, JavaScript Lab	0	0	4	
5	Minor (Blended Mode)	RCC-MIM301	Principles of Marketing	4	0	0	4
6	Multi-Disciplinary (Offline)	RCC-MDM301	Business System Analysis	3	0	0	3
7	Ability Enhancement (Offline)	RCC-AEC301	The Indian Constitution	2	0	0	2
8	Skill Enhancement (Online/Sessional)	RCC-SEC381	Soft Skill & Personality Development	2	0	0	2
Total							21
Fourth Semester							
Sl. No.	Category	Course Code	Course Name	Contact Hours			Credits
				L	T	P	
1	Major (Offline)	RCC-BCA401	Database Management System	3	0	0	5
2		RCC-BCA491	Database Management System Lab	0	0	4	
3		RCC-BCA402	Operating System	3	1	0	4
4		RCC-BCA403	Python Programming	3	0	0	5
5		RCC-BCA493	Python Programming Lab	0	0	4	
6	Minor (Blended Mode)	RCC-MIM401	Human Resource Management	4	0	0	4
7	Ability Enhancement (Offline)	RCC-AEC401A/ RCC-AEC401B	Society Culture and Human Behaviour / Universal Human Values (UHV)	2	0	0	2
Total							20



RCC Institute of Information Technology, Kolkata
(Autonomous from Academic Session: 2024 – 2025)

Syllabus: Bachelor of Computer Application (BCA)

Fifth Semester							
Sl. No.	Category	Course Code	Course Name	Contact Hours			Credits
				L	T	P	
1	Major (Offline)	RCC-BCA501	Full Stack Web Development	3	0	0	5
2		RCC-BCA591	Full Stack Web Development Lab	0	0	4	
3		RCC-BCA502	Advanced DBMS	3	0	0	5
4		RCC-BCA592	Advanced DBMS Lab	0	0	4	
5		RCC-BCA503	Software Engineering	3	1	0	4
6	Minor (Blended Mode)	RCC-MIM501	Operation Research	4	0	0	4
7	Skill Enhancement (Online/Sessional)	RCC-SEC581	Internship	0	0	8	4
Total							22
Sixth Semester							
Sl. No.	Category	Course Code	Course Name	Contact Hours			Credits
				L	T	P	
1	Major (Offline)	RCC-BCA601	Introduction to AI & ML	3	0	0	5
2		RCC-BCA691	Introduction to AI & ML Lab	0	0	4	
3		RCC-BCA602	Unix and Shell Programming	3	0	0	5
4		RCC-BCA692	Unix and Shell Programming Lab	0	0	4	
5		RCC-BCA603	Data Communication and Networking	3	1	0	4
6		RCC-BCA604	Cloud Computing	3	1	0	4
7	Minor (Blended Mode)	RCC-MIM601	Entrepreneurship	4	0	0	4
Total							22