

Bachelor of Computer Applications (BCA)

Eligibility for Admission to BCA course Session 2022-23 "A candidate must have passed 10+2 examination (Arts/Science/Commerce) or equivalent with securing 48% or more (minimum pass mark for SC/ST/OBC/SBC candidates) in aggregate without any approximations".

In regard to reservation of Seats for admission to BCA Part I, the reservation policy of Govt. of Rajasthan/University of Rajasthan will be followed.

Admission Procedure: Admission to BCA Part I course will be made on the basis of merit list (10+2 level).

Attendance: A candidate shall be required to put in a minimum of 75% attendance at the lectures and 75% attendance at the practical separately in each paper, as per university norms.

Scheme of Examination for Bachelor of Computer Applications (BCA):

The Bachelor of Computer Applications will be a **Three Part Course in Faculty of Science** extending over **three academic sessions**. Medium of instructions and examination will be **English** only. There shall be an examination at the end of each part. Each theory paper examination will be of **three hour** duration and shall carry **100 marks**. Theory paper shall contain three parts. All questions are compulsory.

Part – I (very short answer) consists 10 questions of **two marks** each with two questions from each unit. Maximum limit for each question is up to 40 words.

Part – II (short answer) consists 5 questions of **four marks** each with one question from each unit. Maximum limit for each question is up to 80 words.

Part – III (Long answer) consists 5 questions of **twelve marks** each with one question from each unit with internal choice.

Each practical examination (Maximum marks 100) will be of **three hours** duration on one day and carry **60 marks for exercises**(3 exercises) assigned in the examination, 25 marks for **viva-voce** and 15 marks for **practical records and regularity** of the candidate. Other rules and procedures of examinations will be common to those for B.Sc. course.

Passing of Examination and Promotion to next Part: A candidate must secure at least 40% marks in each paper and 50% marks in aggregate for passing a part examination.

A candidate will be promoted to part II if he/she has secured at least 40% in **three theory and two practical papers** of part I examination and with at least 50% in aggregate of these papers.

A candidate will be promoted to Part III if he/she passed with 40% in **three theory and two practical papers** of Part II examination and with at least 50% in aggregate of these papers. However, if the candidate has not passed Part I Examination then also he/she be

promoted to part III if the number of due papers (part I & Part II together) does not exceed **four theory papers and two practical papers.**

Division and Honors: On successful passing out of all three part examinations (in first attempt), those securing 75% and above in aggregate of all the three parts will be awarded **First division with Honors**, and those securing 60% or more but less than 75% will be awarded **First division** and rest will be awarded **Second division.**

Course Structure: Each part of BCA course consist of 6 theory papers and 4 practical papers. Four theory and three practical papers are core courses and two theory and one practical as elective courses.

BCA Part - I 2022-23 Onwards

Code	Subject	Course	Hours / Week	Max. Marks
Theory				
BCA-101	Computer Fundamentals and Office Management Tools	CCC	4	100
BCA-102	Computer Architecture	CCC	4	100
BCA-103	Operating Systems	CCC	4	100
BCA-104	Principles of Programming Language Through C	CCC	4	100
BCA-105	Web Application Development	CCC	4	100
BCA-106	Mathematics	CCC	4	100
Practical				
BCA-107	Office Management Tools Lab	CCC	3	100
BCA-108	C Programming Lab	CCC	3	100
BCA-109	Web Application Development Lab	CCC	3	100
BCA-110	Communication and Soft Skills Lab	CCC	3	100


BCA Part - II 2023-24 Onwards

Code	Subject	Course	Hours / Week	Max. Marks
Theory				
BCA-201	Object Oriented Programming Through C++	CCC	4	100
BCA-202	Database Management Systems	CCC	4	100
BCA-203	Software Engineering	CCC	4	100
BCA-204	Data Structures and Algorithms	CCC	4	100
BCA-205	Cloud Computing	CCC	4	100
	Elective-I	ECC	4	100
Practical				
BCA-207	OOP Lab	CCC	3	100
BCA-208	DBMS Lab	CCC	3	100
BCA-209	Data Structures Lab (Using C/C++)	CCC	3	100
	Elective-II Lab	ECC	3	100

	Elective Group-I (Any One)			
BCA-A01	.NET Programming With C#	ECC	4	100
BCA-A02	PHP Programming	ECC	4	100
BCA-A03	Data Science	ECC	4	100
	Elective Group-II (Any One)			
BCA-B01	.NET Lab	ECC	3	100
BCA-B02	PHP Lab	ECC	3	100
BCA-B03	Data Science Lab	ECC	3	100

BCA Part - III 2024-25 Onwards

Code	Subject	Course	Hours / Week	Max. Marks
	Theory			
BCA-301	Java Programming	CCC	4	100
BCA-302	Python Programming	CCC	4	100
BCA-303	Data Communication & Computer Networks	CCC	4	100
BCA-304	Artificial Intelligence	CCC	4	100
BCA-305	Digital Marketing	CCC	4	100
	Elective-III	ECC		
	Practical			
BCA-307	Java Lab	CCC	3	100
BCA-308	Python Lab	CCC	3	100
BCA-309	Digital Marketing Lab	CCC	3	100
BCA-310	Project	CCC	3	100
	Elective Group-III (Any One)			
BCA-C01	Data Warehousing and Data Mining	ECC	4	100
BCA-C02	Network Security & Cryptography	ECC	4	100
BCA-C03	Machine Learning	ECC	4	100


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