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 1, the reservation policy of Govt. of Rajastham/University of Rajastham 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.

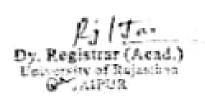
Part - III (Long answer) consists 5 questions of twelve marks each with one question from each unit with internal choice.

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



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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	1.00
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
- 11	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 Onc)			
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	1.00
	Elective Group-III (Any One)			
BCA-	Data Warehousing and Data Mining	ECC	4	100
C01				
BCA-	Network Security & Cryptography	ECC	4	100
C02				
BCA-	Machine Learning	ECC	4,	100
C03				

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