

Programme Structure for Four Years Bachelor of Computer Application with Artificial Intelligence (BCAAI) in accordance with National Education Policy - 2020 and Common Minimum Syllabus

BCAAI (All Practical Subjects)

Year	Sem	Paper Code	Paper Title: Theory/Practical	Major/Minor	Faculty	Credit Point	Total Credit	Marks	Total Marks	Award	
1st	I	BCAAI101	Fundamentals of computer	Major	Own	4	27	100	500	Certificate (48)	
		BCAAI102	Fundamentals of computer Practical/ lab			2					
		BCAAI103	Theory of mathematics	Major		4		100			
		BCAAI104	Theory of mathematics Practical /lab			2					
		BCAAI105	Programming in c and Data Structure	Major		4		100			
		BCAAI106	Programming in C and Data Structure Practical/ lab			2					
			Minor Elective	Minor		Other		6			100
			Vocational-1	-				3			100
		Co-curricular-1 Food, Nutrition and Hygiene	-	University List	-	Qualifying					
	II	BCAAI201	Python Programming	Major	Own	4	21	100	400		
		BCAAI202	Python Programming Practical /lab			2					
		BCAAI203	Discrete Mathematics Theory	Major		4		100			
		BCAAI204	Discrete Mathematics Practical /lab			2					
		BCAAI205	Environmental Studies	Major		4		100			
BCAAI206		Environmental Studies Practical	2								
		Vocational-2	-			3		100			


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		Co-curricular-2 First Aid and Health	-	University List			Qualifying			
Total Credit and Marks					48		900			
2 nd	III	BCAAI301	Database Management System	Major	Own	4	6	100	500	
		BCAAI302	Database Management System practical/lab			2				
		BCAAI303	Object Oriented Programming Using Java	Major		4	6	100		
		BCAAI304	Object Oriented Programming Using Java practical/lab			2				
		BCAAI305	Principles of Operating System	Major		4	6	100		
		BCAAI306	Principles of Operating System Practical/lab			2				
		Minor Elective	Minor	Other	6	100				
		Vocational-3	-	University List	3	100				
		Co-curricular-3 Human Values and Environment studies	-	University List	-	Qualifying				
	IV	BCAAI401	Statistics and Probability	Major	Own	4	6	100		400
		BCAAI402	Statistics and Probability Practical /lab			2				
		BCAAI403	Computer Network	Major		4	6	100		
		BCAAI404	Computer Network Practical /lab			2				
BCAAI405		Design and Analysis of Algorithm	Major	4		6	100			
BCAAI406		Design and Analysis of		2						

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		Algorithm Practical /lab							
		Vocational-4	-	University List	3		100		
		Co-curricular-4 (Qualifying) Physical Education and Yoga	-		-		Qualifying		
Total Credit and Marks							96	1800	

3 rd	V	BCAAI501	Artificial Intelligence	Major	Own	4	10	20	75	400	Degree (48)
		BCAAI502	Software Engineering	Major		4			75		
		BCAAI503	Artificial Intelligence Lab Practical/lab			2			50		
		BCAAI504	Design Thinking			4			75		
		BCAAI505	Machine Learning using Python			4			75		
		BCAAI506	Test Automation using Selenium Lab			2			50		
		BCAAI506	Minor Project Part-I		Major	-	-				
		BCAAI506	Co-curricular-5 Analytic Ability and Digital Awareness		University List		Qualifying				
	VI	BCAAI601	Digital Image Processing	Major	Own	4	10	28	75	500	
		BCAAI602	Introduction to Data Science	Major		4			75		
		BCAAI603	Introduction to Data Science practical Lab			2			50		
		BCAAI603	Deep Learning using TensorFlow			4			75		
		BCAAI604	Cyber Ethics and IPR	Major		4			75		

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	BCAAI605	Deep Learning using TensorFlow Lab			2		50			
	BCAAI606	Minor Project Report Part -II	Major		8		100			
		Co-curricular-6 (Communication Skill and Personality Development)	-	University List			Qualifying			
4 th	VII	BCAAI701	Logical Reasoning and Thinking	Major	Own	20	75	400	Degree with Research (48)	
		BCAAI702	Concepts of Network Security and Cryptography	Major			75			
		BCAAI703	Fundamentals of IoT	Major			75			
		BCAAI704	Client-Side Web Design	Major			75			
		BCAAI705	Client-Side Web Design Lab /Practical	Major			100			
		Project Part -I	Major	-	-					
VIII	BCAAI801	Major Project / Internship	Major	Own		28	500			
Total Credit and marks							192	3600		

Note:

1. Each Student would take Vocational Skill Development & Co-Curricular Course from the list provided by the University.
2. In Non-Practical Subject the maximum marks of each paper shall be 100 consisting of 75 marks in External Examination and 25 marks in Continuous Internal Evaluation.
3. In Practical Subject the maximum marks of each paper shall be 100 consisting of 50 in Theory Examination marks, 25 in Practical and 25 Marks in Continuous Internal Evaluation. The distribution of the Continuous Internal Evaluation marks will be:

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- † Attendance of the student 05 marks.
 - † Assignment/Presentation 05 marks.
 - † Mid-term written exam 15 marks.
4. Practical in odd semesters will be conducted by internal examiners.
 5. Practical in even semesters will be conducted by both internal and external examiners. Name of external examiners will be provided by the University. The projects submitted in even semester (3rd and 4th year) will be evaluated by same examiners.
 6. The student shall prepare a Minor Research Project (MRP) in the 5th and 6th Semester (3rd Year) of Graduation. The MRP shall be submitted and evaluated in the 6th Semester.
 7. The student shall prepare a Research Project (RP) in the 7th and 8th Semesters (4th Year) of Graduation. The RP shall be submitted and evaluated in the 8th Semester.

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