

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

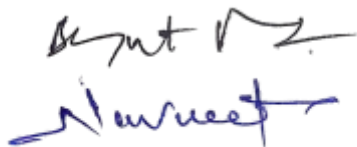
BCAAI (All Practical Subjects)

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	Minor		University List		3			100
		Co-curricular-1 Food, Nutrition and Hygiene	Minor	-	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	Minor	University		3		100			

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		Co-curricular-2 First Aid and Health	Minor	List			Qualifying				
Total Credit and Marks					48		900				
2 nd	III	BCAAI301	Database Management System	Major	Own	4	6	27	100	500	
		BCAAI302	Database Management System practical/lab			2					
		BCAAI303	Object Oriented Programming Using Java	Major		4	6				
		BCAAI304	Object Oriented Programming Using Java practical/lab			2					
		BCAAI305	Principles of Operating System	Major		4	6				
		BCAAI306	Principles of Operating System Practical/lab			2					
		Minor Elective	Minor	Other	6		100	Diploma (48)			
		Vocational-3	Minor	University List	3		100				
		Co-curricular-3 Human Values and Environment studies	Minor		-		Qualifying				
		IV	BCAAI401	Statistics and Probability	Major	Own	4	21	100	400	
			BCAAI402	Statistics and Probability Practical /lab			2				6
			BCAAI403	Computer Network	Major		4				6
			BCAAI404	Computer Network Practical /lab			2				
			BCAAI405	Design and Analysis of Algorithm	Major		4				6
	BCAAI406		Design and Analysis of Algorithm Practical /lab		2						



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

3 rd	V	BCAAI501	Artificial Intelligence	Major	Own	4	20	75	400	Degree (48)	
		BCAAI502	Artificial Intelligence Lab Practical/lab			2		10			50
		BCAAI503	Software Engineering			4		75			
		BCAAI504	Design Thinking	Major		4		75			
		BCAAI505	Machine Learning using Python			4		10			75
		BCAAI506	Test Automation using Selenium Lab			2		50			
			Minor Project Part-I	Major		-		-			
			Co-curricular-5 Analytic Ability and Digital Awareness			University List					Qualifying
	VI	BCAAI601	Digital Image Processing	Major	Own	4	28	75	500		
		BCAAI602	Introduction to Data Science			4		10			75
		BCAAI603	Introduction to Data Science practical Lab			2		50			
		BCAAI604	Deep Learning using TensorFlow	Major		4		75			
		BCAAI605	Cyber Ethics and IPR			4		10			75
		BCAAI606	Deep Learning using			2		50			

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			TensorFlow Lab						
			Minor Project Report Part -II	Major		8		100	
			Co-curricular-6 (Communication Skill and Personality Development)	Minor	University List			Qualifying	
4 th	VII	BCAAI701	Logical Reasoning and Thinking	Major	Own	5	20	100	400
		BCAAI702	Concepts of Network Security and Cryptography	Major		5		100	
		BCAAI703	Fundamentals of IoT	Major		5		100	
		BCAAI704	Client-Side Web Design	Major		5		100	
			Project Part -I	Major		-		-	
	VIII	BCAAI801	Major Project / Internship	Major	Own		28		500
Total Credit and marks						192		3600	

Note:

- Each Student would take Vocational Skill Development & Co-Curricular Course from the list provided by the University.
- 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.
- 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:

✚ Attendance of the student 05 marks.

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- ✚ 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 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 Project in the 7th and 8th Semesters (4th Year) of Graduation. The project shall be submitted and evaluated in the 8th Semester.

Dr. J. K. Singh
Principal