MODEL FORMAT FOR BACHELOR OF COMPUTER APLICATIONS (BCA) HONOURS PROGRAMME FOR 2021:

SEMESTER	SUBJECT CODE	NAME OF THE SUBJECT	CREDITS			
			L	T	P	TOTAL
I	BCA120C1	PROGRAMMING IN C/C++	4	0	2	6
	BCA121C2	COMPUTING MATHEMATICS	4	2	0	6
	AECC	ENVIRONMENTAL STUDIES	4	0	0	4
	GE-I	GENERIC ELECTIVE I (GEI) ANY ONE: 1. *MATHEMATICS* 2. *STATISTICS* 3. *PHYSICS* 4. *ELECTRONICS* 5. *ECONOMICS* 6. *EDUCATION* 7. *PSYCHOLOGY*	4	2/0	0/2	6
II	BCA221C1	DISCRETE STRUCTURES	4	2	0	6
	BCA220C2	COMPUTER SYSTEM ARCHITECTURE	4	0	2	6
	AECC	ENGLISH COMMUNICATION SKILLS	4	0	0	4
	GE-II	GENERIC ELECTIVE II (GEII) ANY ONE: 1. *MATHEMATICS* 2. *STATISTICS* 3. *PHYSICS* 4. *ELECTRONICS* 5. *ECONOMICS* 6. *EDUCATION* 7. *PSYCHOLOGY*	4	2/0	0/2	6
III	BCA320C1	DATA STRUCTURES	4	0	2	6
	BCA320C2	OPERATING SYSTEMS	4	0	2	6
	BCA320C3	COMPUTER NETWORKS	4	0	0	6
	SEC320S	SKILL ENHANCEMENT COURSE (FROM 3RD SEMESTER BASKET)	2	2 / 0	0 / 2	4
	GE-III	GENERIC ELECTIVE III (GEIII) ANY ONE: 1. *MATHEMATICS* 2. *STATISTICS* 3. *PHYSICS* 4. *ELECTRONICS* 5. *ECONOMICS* 6. *EDUCATION* 7. *PSYCHOLOGY*	4	2/0	0/2	6
IV	BCA420C1	DESIGN AND ANALYSIS OF ALGORITHMS	4	0	2	6
	BCA420C2	SOFTWARE ENGINEERING	4	0	2	6
	BCA420C3	DATABASE MANAGEMENT SYSTEM	4	0	2	6
	DM420S	DISASTER MANAGEMENT	2	2	0	4
	GE-IV	GENERIC ELECTIVE IV (GEIV) ANY ONE: 1. *MATHEMATICS* 2. *STATISTICS* 3. *PHYSICS* 4. *ELECTRONICS* 5. *ECONOMICS* 6. *EDUCATION* 7. *PSYCHOLOGY*	2	2/0	0/2	6
V	BCA521C1	ARTIFICIAL INTELLIGENCE	4	0	2	6
	BCA521C2	PROGRAMMING IN JAVA	4	0	2	6
	BCA520D1A OR BCA520D1B	NUMERICAL METHODS OR INFORMATION SECURITY	4	0	2	6
	BCA521D2A OR BCA521D2B	THEORY OF COMPUTATION OR CLOUD COMPUTING	4	2/0	0/2	6
VI	BCA621C1	INTERNET TECHNOLOGIES	4	0	2	6
	BCA620C2	COMPUTER GRAPHICS	4	0	2	6
	BCA621D1A OR BCA620D1B	MACHINE LEARNING OR PYTHON PROGRAMMING	4	0	2	6
	BCA620D2	DISSERTATION/ PROJECT WORK	0	4	2	6
TOTAL CREDITS			148			

THE MODULAR COURSE TITLED "COMPUTING MATHEMATICS" HAS BEEN INTRODUCED TO FULFILL THE REQUIREMENT OF MATHEMATICS FOR THE CANDIDATES ADMITTED TO THE BCA (HONS) PROGRAMME WITHOUT MATHEMATICS AT THE 10 + 2 LEVEL AND, AS SUCH, SHALL REPLACE THE REQUIREMENT OF MATHEMATICS BRIDGE COURSE FOR THESE STUDENTS.

THE FOLLOWING GENERIC ELECTIVE COURSES IN COMPUTING ARE OFFERED FOR THOSE STUDENTS PURSUING HONOURS DEGREE PROGRAMME IN A DISCIPLINE OTHER THAN BCA AT THE 1st TO 4th SEMESTER LEVEL:

1st SEMESTER	*BCA120C1*	*PROGRAMMING IN C / C++*	*THEORY (4 CREDITS) + LAB (2 CREDITS)*
2nd SEMESTER	*BCA121C2*	*COMPUTING MATHEMATICS*	*THEORY (4 CREDITS) + TUTORIAL (2 CREDITS)*
3rd SEMESTER	*BCA320C3*	*COMPUTER NETWORKS*	*THEORY (4 CREDITS) + LAB (2 CREDITS)*
4th SEMESTER	*BCA420C3*	*DATABASE MANAGEMENT SYSTEM*	*THEORY (4 CREDITS) + LAB (2 CREDITS)*

THE FOLLOWING GENERIC ELECTIVE COURSES IN COMPUTING ARE OFFERED FOR THOSE STUDENTS PURSUING BA (GENERAL) DEGREE PROGRAMME WITHOUT COMPUTER APPLICATIONS AS CORE DISCIPLINE AT THE 5th & 6th SEMESTER LEVEL:

5th SEMESTER:	**BCA520G**	**PROGRAMMING IN C / C++**	*THEORY (4 CREDITS) + LAB (2 CREDITS)*
6th SEMESTER:	**BCA621G**	**COMPUTING MATHEMATICS**	*THEORY (4 CREDITS) + TUTORIAL (2 CREDITS)*