

Bachelor of Technology in Computer Science and Engineering

School of Computer Science and Engineering

Programme Credit Structure		Credits	BACSE105	Data Structures and Algorithm Analysis	3	0	2	4
University Core Courses		60	BACSE106	Operating Systems	3	0	2	4
Professional Core Courses		60	BACSE201	Models of Computation	3	1	0	4
Programme Core		40	BACSE202	Database Systems	3	0	2	4
Concentration		20	BACSE203	Computer Networks	3	0	2	4
Open Elective Courses		40	BACSE204	Software Engineering	3	0	2	4
Total Graded Credit Requirement		160	BACSE205	Fundamentals of Artificial Intelligence and Machine Learning	3	0	2	4
University Core Courses		60	BAMAT205	Discrete Mathematics and Linear Algebra	3	1	0	4
L	T	P	C					
BAPHY100 Physics*			4	Concentration				
BACHY100 Chemistry*			4					
BAMAT101 Multivariable Calculus and Differential Equations		3	0	2	4	Systems Engineering		
BAMAT200 Mathematics II*			4	BACSE301	Deep Learning	3	0	2
BAEEE101 Basic Engineering		3	0	BACSE319	Cryptography and Network Security	3	0	2
BACSE101 Problem Solving Using Python		0	0	BACSE324	Embedded Systems Architecture	3	0	2
BACSE102 Problem Solving Using Java		0	0	BACSE325	Full Stack Development	2	0	4
BAENG101 Technical English Communication		3	0	BACSE326	Distributed System Design	3	0	2
BASTS101 Qualitative and Quantitative Skills Practice I		3	0	0	1	Open Elective Courses		
BASTS102 Qualitative and Quantitative Skills Practice II		3	0	0	1	40		
BAFLC100 Foreign Language		1	0	2	2	Engineering Sciences Humanities Social Sciences Liberal Arts Economics Finance Management		
BAHSM100 Humanities, Social Science and Management		3	0	0	3			
BAHUM101 India Studies		1	0	0	1	Ancillary (20 credits) - Students can opt for "Ancillary" in other disciplines by earning 20 credits from the courses listed in the Ancillary options under Open Elective. Ancillary details will be mentioned only on the transcript.		
BACHY101 Environmental Sciences		2	0	0	2			
BAHUM100 Ethics and Values*				2				
BAMGT101 Entrepreneurship		3	0	0	3	Additional Concentration (20 credits) - Students can opt for "Additional Concentrations" in their own discipline by earning 20 credits from the courses listed in the Concentration options under Open Elective. Concentration details will be mentioned only on the transcript.		
BACSE191 Basic Multidisciplinary Project		0	0	4	2			
BACSE291 Innovative Design Project		0	0	4	2			
BACSE391 Research / Design Project		0	0	6	3	Minor (additional 20 credits) - Students can opt for a "Minor Degree" in other disciplines 20 credits in addition to the minimum credit requirement of the Undergraduate Degree from the courses listed in the Minor options		
BACSE491 Technical Answers for Real World Problems		1	0	4	3			
BACSE399 Internship I		0	0	2	1			
BACSE499 Internship II / Capstone Project		0	0	12	6	Honours (additional 20 credits) - Students can opt for an "Honours Degree" in the same discipline by earning 20 credits in addition to the minimum credit requirement of the Undergraduate Degree from the courses listed in the Honours options.		
BAENG100 Effective English Communication (NCC)		0	0	4	2			
BAEXC100 Extracurricular Activities (NCCM)		0	0	4	2			
*-Basket Details						Second Major (additional 40 credits) - Students can opt for a "Second Major" in other disciplines by earning 40 credits in addition to the minimum credit requirement of the Undergraduate Degree from the courses listed in the Second Major options.		
Programme Core Courses			40					
BACSE103 Computation Structures		3	0	2	4			
BACSE104 Structured and Object-Oriented Programming		2	0	4	4			