

BCA 2025-2029		
Choice Based Credit System		
SEM 1		
Code	Subject	Credits
<b>Core Courses-Compulsory</b>		
3CCC101	Computer Fundamentals	3
3CCC101P	Computer Fundamentals Lab	1
3CCC102	Problem solving Techniques using C	3
3CCC102P	C Programming Lab	1
<b>Multidisciplinary Courses</b>		
3CMD101	Mathematical Foundation for Computer Science	3
<b>Ability Enhancement Course- Compulsory</b>		
3CAEC101	Functional English	2
<b>Skill Enhancement Course- Compulsory</b>		
3CSEC101	Basic Accountancy	3
<b>Common Value Added Courses</b>		
3CVAC101	Environmental Studies	2
3CVAC102	Character Building & Holistic Development of Personality-I (Spiritual & Mental Health)	2
		<b>20</b>
SEM 2		
Code	Subject	Credits
<b>Core Courses-Compulsory</b>		
3CCC103	Data Structure using C	3
3CCC103P	Data Structure using C Lab	1
3CCC104	Object Oriented Programming Using JAVA	3
3CCC104P	JAVA Programming Lab	1
3CCC105	Computer Architecture	3
3CCC106	Discrete Mathematics	3
<b>Ability Enhancement Course- Compulsory</b>		
3CAEC102	Communication Skills	2
<b>Multidisciplinary Courses</b>		
3CMD102	Entrepreneurship	3
<b>Skill Enhancement Course- Compulsory</b>		
3CSEC102	Computer Assembly and Repair	2
<b>Common Value Added Courses</b>		
3CVAC103	Character Building & Holistic Development of Personality- II (Yoga and Physical Fitness)	2
<b>Vocational Courses (Summer): Only for students who wish to exit after the First Year with a Certificate</b>		
3CVOC101	Advance Excel	4
<b>Total without Vocational Course</b>		<b>23</b>
<b>Total with Vocational Course</b>		<b>27</b>
SEM 3		
Code	Subject	Credits
<b>Core Courses-Compulsory</b>		
3CCC201	Python Programming	3
3CCC201P	Python Programming Lab	1
3CCC202	Database Management System	3
3CCC202P	Database Management System Lab	1
3CCC203	Operating System	3
<b>Multidisciplinary Courses</b>		
3CMD201	Non Computer Course Through MOOCs	3
<b>Ability Enhancement Course- Compulsory</b>		
3CAEC201	Professional Skills	2
<b>Common Value Added Courses</b>		
3CVAC201	Character Building & Holistic Development of Personality- III (Universal Human Values and Ethics)	2
3CVAC202	Understanding India	2
		<b>20</b>
SEM 4		
Code	Subject	Credits
<b>Core Courses-Compulsory</b>		
3CCC207	Data Communication and Computer Networks	3
3CCC204	Artificial Intelligence	3
3CCC204P	Artificial Intelligence Lab	1
3CCC205	Computer Graphics and Multimedia	3
3CCC205P	Computer Graphics and Multimedia Lab	1
3CCC206	Software Engineering	3
<b>Ability Enhancement Course- Compulsory</b>		
3CAEC202	Seminar In Executive Communication *	2
<b>Skill Enhancement Course- Compulsory</b>		
3CSEC201	Statistics for BCA	3
<b>Common Value Added Courses</b>		
3CVAC203	Cyber Security	3

Vocational Courses (Summer): Only for students who wish to exit after the First Year with a Certificate		
3CVOC201	Full Stack Web Development	4
<b>Total without Vocational Course</b>		<b>22</b>
<b>Total with Vocational Course</b>		<b>26</b>

SEM 5		
Code	Subject	Credits
<b>Core Courses-Compulsory</b>		
3CCC301	Machine Learning	3
3CCC301P	Machine Learning Lab	1
3CCC302	Internet Technologies using HTML,CSS & JAVAScript	3
3CCC302P	Internet Technologies using HTML,CSS & JAVAScript Lab	1
3CCC303	Design and Analysis of Algorithm	3
3CINT301	Internship/ Tour & Training/ Industrial Training	2
<b>Departmental Elective- (Students have to choose any two course)</b>		
3CCDE301	Cloud Computing	4
3CCDE302	Soft Computing	4
3CCDE303	Data Mining and Warehousing	4
3CCDE304	Digital Image Processing	4
3CCDE305	Human Computer Interface	4
<b>Common Value Added Courses</b>		
3CUMC102	Community Engagement and Social Responsibility	2
<b>Total</b>		<b>23</b>

SEM 6		
Code	Subject	Credits
<b>Core Courses-Compulsory</b>		
3CCC304	Theory of Computation	3
3CCC305	PHP & MYSQL	2
3CCC305P	PHP & MYSQL Lab	1
3CCC306	Data Analytics	3
3CPROJ301	Major Project	8
3CUMC101	Managing Personal Finance##	0
<b>Departmental Elective- (Students have to choose any one course)</b>		
3CCDE306	Fundamentals of Data Science	3
3CCDE307	Digital Marketing	3
3CCDE308	Natural Language Processing	3
3CCDE309	Software Testing	3
<b>Total</b>		<b>20</b>

SEM 7 (Honours)		
Code	Subject	Credits
<b>Discipline Specific Courses-Compulsory</b>		
3CCC401	Research Methodology	4
3CCC402	Internet of Things	4
3CCC403	Blockchain Technology	4
3CPROJ401	Project-I	8
<b>Total</b>		<b>20</b>

SEM 8 (Honours)		
Code	Subject	Credits
<b>Discipline Specific Courses-Compulsory</b>		
3CCC404	Neural Network and Deep Learning	4
3CCC405	Cryptography and Network Security	4
3CCC406	Compiler Design	4
3CPROJ402	Project-II	8
<b>Total</b>		<b>20</b>

SEM 7 (Honours with Research)		
Code	Subject	Credits
<b>Discipline Specific Courses-Compulsory</b>		
3CCC401	Research Methodology	4
3CCC403	Blockchain Technology	4
3CDISS401	Dissertation-I	12
<b>Total</b>		<b>20</b>

SEM 8 (Honours with Research)		
Code	Subject	Credits

<b>Discipline Specific Courses-Compulsory</b>		
3CCC404	Neural Network and Deep Learning	4
3CCC405	Cryptography and Network Security	4
3CDISS402	Dissertation-II	12
	Total	<b>20</b>