

STE 2025-28

School of Science and Computer Studies
BCA (CC) Programme



School of Science and Computer Studies
BCA (Cloud Computing)

Scheme of Teaching and Evaluation (STE)
Batch [2025-28]



BCA (CC) Programme**I Semester**

Course Code	Course	CMRU Category	CMRU subcategory	UGC Category	School / Dept	Contact Hours/Week	Credit Distribution L-T-P-C
Program Core							
8CSPL1322	Problem Solving Techniques Using C and Lab	Foundation	Fundamental	Major Core	SSCS	7	3-0-2-5
8CSGC1462	Database Management Systems and Lab	Foundation	Fundamental	Major Core	SSCS	7	3-0-2-5
8MATH1031	Mathematical Foundation for Computer Science	Foundation	Fundamental	Major Core	SSCS	3	3-0-0-3
8CSGC1861	Fundamentals of Digital Electronics	Foundation	Fundamental	Major Core	SSCS	2	2-0-0-2
Common Core							
CPSAD1013	Design Thinking	PS	CC	AECC	DCCC	2	2-0-0-2
CPSSD1061	Creating with AI	PS	CC	AECC	DCCC	1	1-0-0-1
GCSCD1011	Community Service Programme-I (COS-I) *	CS	-	-	DCCC		0-0-1-1*
Total						23	18 + 1*

*The Community Service Programme- I (COS-I) of 30 hours has to be carried out in the I Semester. The corresponding 1 credit and the CIE will be reflected in the VI Semester.



BCA (CC) Programme

II Semester

Course Code	Course	CMRU Category	CMRU Subcategory	UGC Category	School/ Dept	Contact Hours/ Week	Credit Distribution L-T-P-C
Program Core							
8CSGC2391	Data Structures using C and Lab	Foundation	Intermediate	Major core	SSCS	7	3-0-2-5
8CSPL1341	Operating System & Linux Foundation and Lab	Foundation	Intermediate	Major core	SSCS	7	3-0-2-5
8STAT2041	Statistics	Foundation	Fundamental	Major Core	SSCS	3	3-0-0-3
	IDE 1	Interdisciplinary	Fundamental	Minor	SOEC/SOM/SOSSH/SOET	3	3-0-0-3
Common Core							
CPSAL1061 / 71 / 81	Hindi / Kannada / English	PS	CC	AECC	DCCC	2	2-0-0-2
CPSAL1121	Active Communication	PS	CC	AECC	DCCC	3	3-0-0-3



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GPSDA1012	Career Preparedness Program-I	PS	-	AECC	DCCC	2	0-0-1-1
GCSCD1021	Community Service Programme-II (COS-II) *	CS	-	-	DCCC		0-0-1-1*
Total						26	22 + 1*

*The Community Service Programme II (COS-II) of 30 hours has to be carried out in the II Semester. The corresponding 1 credit and the CIE will be reflected in the VI Semester.



BCA (CC) Programme**III Semester**

Course Code	Course	CMRU Category	CMRU Subcategory	UGC Category	School/ Dept	Contact Hours/ Week	Credit Distribution L-T-P-C
Program Core							
8CSPL1332	Object Oriented Programming using JAVA and Lab	Foundation	Fundamental	Major core	SSCS	7	3-0-2-5
8CSPL1352	Web Technologies and Lab	Foundation	Fundamental	Major core	SSCS	7	3-0-2-5
8CSCC1031	Cloud Computing and Virtualisation Foundation	Foundation	Intermediate	Major Core	SSCS	3	3-0-0-3
	IDE2	Interdisciplinary	Fundamental	Minor		3	3-0-0-3
8CSDS1311	Excel for Data Analysis	Foundation	Fundamental	Major Core	SSCS	3	0-0-2-2
Common Core							
CKSAA1033	Introduction to Philosophical Thoughts	KSC	CC	AECC	DCCC	1	1-0-0-1
GPSBA1022	Career Preparedness Program-II	PS	-	AECC	DCCC	2	0-0-1-1
GCSCD1031	Community Service Programme-III(COS-III) *	CS	-	-	DCCC	(15)	0-0-1-1*
Total						26	20+ 1[†]

*The Community Service Programme- III (COS-III) of 30 hours has to be carried out in the III Semester. The corresponding 1 credit and the CIE will be reflected in the VI Semester.



BCA (CC) Programme**IV Semester**

Course Code	Course	CMRU Category	CMRU Subcategory	UGC Category	School/ Dept	Contact Hours/Week	Credit Distribution L-T-P-C
Program Core							
8CSCC3161	Cloud Computing and Lab	Foundation	Advanced	Major core	SSCS	7	3-0-2-5
8CSGC1481	Data Communication and Networks Lab (Cisco Packet Tracer/NS2 Mini Project)	Foundation	Fundamental	Major core	SSCS	7	3-0-2-5
8CSGC2401	Cyber Security	Foundation	Intermediate	Major Core	SSCS	3	3-0-0-3
	MOOC			Major core			4-0-0-4
	IDE3	Interdisciplinary	Fundamental	Minor		3	3-0-0-3
Common Core							
CKSAM1051	Indian Constitution	KSC	CC	AECC	DCCC	2	2-0-0-2
GPSBA1032	Career Preparedness Program-III	PS	-	AECC	DCCC	2	0-0-1-1
Total						24	23

Internship - I (SIP) of 4 credits to be carried out between IV and V Semester break. The corresponding 4 credits will be reflected in the VI Semester.



V Semester

Course Code	Course	CMRU Category	CMRU Subcategory	UGC Category	School/ Dept	Contact Hours/ Week	Credit Distribution L-T-P-C
Program Core							
8CSGC1081	Software Engineering	Foundation	Advanced	Major core	SSCS	3	3-0-0-3
8CSCC4181	Cloud Security	Foundation	Advanced	Major core	SSCS	3	3-0-0-3
8CSAI3111	Internet of Things and Lab	Foundation	Advanced	Major	SSCS	7	3-0-2-5
8CSAI3102/ 8CSGC3831	Elective 1: Artificial Intelligence and Lab/ Full Stack Development with Cloud Deployment and Lab	Elective	Advanced	Major	SSCS	7	3-0-2-5
8INTS3010	Internship I [†] (SIP)	Internship	-	CC	SSCS		
Common Core							
CKSAM1021	Environment and Sustainability	KSC	CC	AECC	DCCC	2	2-0-0-2
CCSAE1011	Disaster Management		CC	AECC	DCCC	2	2-0-0-2
Total						22	20+ 4 †



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	Training and placement	PS	-	AECC	DCCC	2	GR
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†† Internship I - Summer Internship Program (SIP) credits are reflected in the VI Semester



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VI Semester

Course Code	Course	CMRU Category	CMRU Subcategory	UGC Category	School/ Dept	Contact Hours/ Week	Credit Distribution L-T-P-C
Program Core							
8CSCC4171	Cloud Analytics and Lab	Foundation	Advanced	Major core	SSCS	7	3-0-2-5
8CSPL2371 / 8CSGC3501	Elective2: Enterprise Programming and Lab / Network Information Security and Lab	Elective	Advanced	Major core	SSCS	7	3-0-2-5
CKSHA1011	Indian Traditions: Values and Critical Inquiry			CC	DCCC	2	2-0-0-2
8INTS3010	Internship I ^{††} (SIP)	Internship	IC	CC	SSCS	-	0-0-4-4 ^{††}
8CAPS40101	Capstone	Project	Project	DSE	SSCS	12	0-0-6-6
GCSCD1011	Community Service Programme (COS-I)* -I	CS	-	-	DCCC	-	0-0-1-1*



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GCSCD1021	Community Service Programme - II (COS-II)*	CS	-	-	DCCC	-	0-0-1-1*
GCSCD1031	Community Service Programme- III (COS-III)*	CS	-	-	DCCC	-	0-0-1-1*
Total						26	25

†† The credits of Internship I - - Summer Internship Program (SIP) taken up after the IV Semester is reflected in the VI Semester

* The credit of Community Service Programme- I (COS-I) / Community Service Programme- II (COS-II) / Community Service Programme- III (COS-III) of 30 hours each that was carried out in the I / II and III Semesters respectively is reflected in the Semester

