SCHOOL OF SCIENCE AND COMPUTER STUDIES

BCA (GENERAL)

SCHEME OF TEACHING AND EVALUATION (STE)

BATCH [2025-28]

AY 2025-26

BCA (G) Programme Structure
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
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						22	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 (G) 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/SSCSH/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

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

*The Community Service Program (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.

III Semester

Course Code	Course	CMRU Category	CMRU Subcategory	UGC Category	School/ Dept	Contact Hours/ Week	Credit Distribution L-T-P-C
Program Core							
8CSPL1352	Web Technologies and Lab	Foundation	Fundamental	Major core	SSCS	7	3-0-2-5
8CSPL1332	Object Oriented Programming Using Java and Lab	Foundation	Fundamental	Major core	SSCS	7	3-0-2-5
8CSGC2152	Numerical Technique and Linear Programming	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	Minor	SSCS	2	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	1	1-0-0-1
GCSCD1031	Community Service Programme-III(COS-III) *	CS	-	-	DCCC		0-0-1-1*
Total						**24**	**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.

IV Semester

Course Code	Course	CMRU Category	CMRU Subcategory	UGC Category	School / Dept	Contact Hours/ Week	Credit Distribution L-T-P-C
Program Core							
8CSPL1361	Python Programming and Lab	Foundation	Fundamental	Major core	SSCS	7	3-0-2-5
8CSGC1472	Software Engineering and Lab	Foundation	Fundamental	Major core	SSCS/ Industry	7	3-0-2-5
8CSGC2401	Cyber Security	Foundation	Intermediate	Major Core	SSCS	3	3-0-0-3
8MOOC1011	MOOC			Major core		4	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	1	1-0-0-1
Total						**27**	**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							
8CSGC1071	Data Communication Networks	Foundation	Fundamental	Major	SSCS	3	3-0-0-3
8CSGC2101	Data Warehousing and Mining	Foundation	Fundamental	Major	SSCS	3	3-0-0-3
8CSPL2371	Enterprise Programming and Lab	Foundation	Intermediate	Major	SSCS	7	3-0-2-5
8CSAI3102 / 8CSPL6381	**Elective 1:** Artificial Intelligence and Lab / Mobile Application Development and Lab /	Elective	Advanced	Major	SSCS	7	3-0-2-5
8INTS3010	Internship I†(SIP)	Internship	-	CC	SSCS		0-0-4-4†
Common Core							
CKSAM1021	Environment and Sustainability	KSC	CC	AECC	DCCC	2	2-0-0-2
CCSAE1011	Disaster Management					2	2-0-0-2
GR	Training and Placement						GR
Total						**24**	**20 +4†**

†† **Internship I - Summer Internship Program (SIP) credits are reflected in the VI Semester**

VI Semester

Course Code	Course	CMRU Category	CMRU Subcategory	UGC Category	School/ Dept	Contact Hours/ Week	Credit Distribution L-T-P-C
Program Core							
8CSAI3111	Internet of Things and Lab	Foundation	Advanced	Major core	SSCS/ Industry	7	3-0-2-5
8CSCC3161 / 8CSDS4041	Cloud Computing and Lab / Data Modeling & visualization and Lab	Foundation	Advanced	Major core	SSCS/ Industry	7	3-0-2-5
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 - I (COS-I)*	CS	-	-	DCCC	-	0-0-1-1*
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*

CKSHA1011	Indian Tradition Value and Critical Inquiry						2-0-0-2
Total						26	25

†† The credits of Internship II - - 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