

School of Science and Computer Studies

BCA (DATA SCIENCE)

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





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	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.





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	Interdiscipl inary	Fundamental	Minor	SOEC/ SOM/S SCSH/S OET	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	СС	AECC	DCCC	3	3-0-0-3
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						27	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.



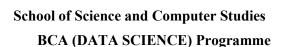


III Semester

			III Sellies	101		1				
Course Code	Course	CMRU Category	CMRU Subcategory	UGC Category	School/ Dept	Contact Hours/ Week	Credit Distribution L-T-P-C			
Program Core	rogram Core									
8CSPL1332	Object Oriented Programming using JAVA and Lab	Foundation	Fundamental	Major core	SSCS	7	3-0-2-5			
8CSPL1361	Python Programming and Lab	Foundation	Fundamental	Major core	SSCS	7	3-0-2-5			
8CSGC2152	Numerical Techniques and Linear Programming	Foundation	Intermediate	Major Core	SSCS	3	3-0-0-3			
	IDE2	Interdiscipli nary	Fundamental	Minor		3	3-0-0-3			
8CSDS1311	Excel for Data Analysis				SSCS	2	2-0-0-2			
			Common Core	;			•			
CKSAA1033	Introduction to Philosophical Thoughts	KSC	CC	AECC	DCCC	1	1-0-0-1			
GCSCD1031	Community Service Programme- III(COS-III) *	CS	-	-	DCCC	2	0-0-1-1*			
CPSBD1011	Career Preparedness Program-II	PS	-	AECC	DCCC	2	0-0-1-1			









Total	27	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 Categor y	School/ Dept	Contact Hours/ Week	Credit Distribution L-T-P-C	
Program Core								
8CSAI3102	Artificial Intelligence and Lab	Foundation	Advanced	Major core	SSCS	7	3-0-2-5	
8CSGC1473	Software Engineering and Lab	Foundation	Intermediate	Major core	SSCS	7	3-0-2-5	
8CSGC2401	Cyber Security	Foundation	Intermediate	Major Core	SSCS	3	3-0-0-3	
8MOOC1011	MOOC Course			Major core		4	4-0-0-4	
	IDE3	Interdisciplin ary	Fundamental	Minor		3	3-0-0-3	
Common Core								
CKSAM1051	Indian Constitution	KSC	CC	AECC	DCCC	2	2-0-0-2	
CPSDR1011	Career Preparedness Program-III	KSC	CC	AECC	DCCC	1	1-0-0-1	
	Total							

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 Subcateg ory	UGC Category	School/ Dept	Contact Hours/ Week	Credit Distribution L-T-P-C
Program Core							
8CSGC2061	Design and Analysis of Algorithms	Foundation	Advanced	Major core	SSCS	3	3-0-0-3
8CSGC2101	Data Warehousing and Mining	Foundation	Advanced	Major core	SSCS	3	3-0-0-3
8CSDS3171	Machine Learning using Python and Lab	Foundation	Advanced	Major core	SSCS	7	3-0-2-5
8CSGC2491 / 8CSAI3111	Elective 1: Web Analytics and Lab/ Internet of Things and Lab	Foundation	Advanced	Major core	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	KSC	CC	AECC	DCCC	2	2-0-0-2
GR	Training and Placement		GR				
		Total				25	20

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





VI Semester

Course Code	Course	CMRU Category	CMRU Subcatego ry	UGC Catego ry	School /Dept	Contact Hours/ Week	Credit Distribution L-T-P-C
Program Core							
8CSDS4041	Data Modeling & visualization and Lab	Foundation	Advanced	Major	SSCS	7	3-0-2-5
CKSHA1011	Indian Traditions: Values and Critical Inquiry					2	2-0-0-2
8INTS3010	Internship I†† (SIP)	Internship	IC	CC	SSCS	-	0-0-4-4 ^{††}
8CSDS3161 8CSDS4191	Elective: Big Data Analytics and Lab / Text Mining and Analytics and Lab	Foundation	Advanced	Major	SSCS	7	3-0-2-5
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*







Total	28	25
	ľ	

†† 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

