School of Science and Computer Studies

BCA (AI & ML)

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

School of Science and Computer Studies

BCA (AI & ML) 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							
8CSPL1321	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.==

School of Science and Computer Studies

BCA (AI & ML) 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
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.

III Semester

Course Code	Course	CMRU Category	CMRU Subcategory	UGC Category	School /Dept	Contact Hours /Week	Credit Distribution L-T-P-C
Program Core							
8CSAI3191	Artificial Intelligence and Machine Learning fundamentals with 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
8CSGC1081	Software Engineering	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	2	0-0-2-2
Common Core							
CKSAA1033	Introduction to Philosophical Thoughts	PS	CC	AECC	DCCC		1
CPSBD1011	Career Preparedness Program-II	PS	CC	AECC	DCCC		1
GCSCD1031	Community Service Programme-III(COS-III) *	CS	-	-	DCCC		0-0-1-1*
Total							**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							
8CSDS4181	Deep Learning Lab with TensorFlow and PyTorch	Foundation	Fundamental	Major core	SSCS	7	3-0-2-5
8CSPL3491	Web Application Development and Lab	Foundation	Fundamental	Major core	SSCS/ Industry	7	3-0-2-5
8CSAI4201	AI in Computer Vision	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	PS	CC	AECC	DCCC		2
TBI	Career Preparedness Program-III	PS	CC	AECC	DCCC		1
Total							**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							
8CSGC3871	Computer Networks	Foundation	Intermediate	Major Core	SSCS	3	3-0-0-3
8CSAI3051	Natural Language Processing.	Foundation	Intermediate	Major Core	SSCS	3	3-0-0-3
8CSPL3501	Android Applications Development and Lab	Foundation	Advanced	Major	SSCS	7	3-0-2-5
Internship	SIP (8INTS3010)						
8CSDS3161/ 8CSGC2491	**Elective 1** Big Data Analytics and Lab/ Data Warehousing and Mining and Lab (Using R)	Internship	-	CC	SSCS		5
Common Core							
CKSAM1021	Environment and Sustainability	PS	CC	AECC	DCCC		2
CCSAE1011	Disaster Management	PS	CC	AECC	DCCC		2
Total							**20**
GR	Training and placement						

VI Semester

Course Code	Course	CMRU Category	CMRU Subcategory	UGC Category	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
	Elective 2: 1. Block Chain Technology and Lab 2. Information Security and Cyber Law 3. Principles of UI & UX 4. AI in Cybersecurity	Foundation	Advanced	Major	SSCS	7	3-0-2-5
Common Core							
	Indian Traditions: Values and Critical Inquiry						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 -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		**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