

School of Science and Computer Studies

Bachelor of Science IT

Scheme of Teaching & Evaluation (STE)

Batch [2025-28]

BSc IT Programme**Programme Structure****I Semester**

Course Code	Course	CMRU Category	CMRU Sub category	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	(15)	
Total						23	18

*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.

BSc IT Programme**II Semester**

Course Code	Course	CMRU Category	CMRU Sub category	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/ SOSH/ 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

CPSDB1011	Career Preparedness Program-I	PS	CC	AECC	DCCC	1	1-0-0-1
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.

BSc IT Programme

III Semester

Course Code	Course	CMRU Category	CMRU Sub Category	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
8CSGC2801	Digital Fundamentals and Computer Architecture	Foundation	Intermediate	Major Core	SSCS	3	3-0-0-3
	IDE2	Inter disciplinary	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	KSC	CC	AECC	DCCC	1	1-0-0-1
GCSCD1031	Community Service Programme-I II(COS-III) *	CS	-	-	DCCC		0-0-1-1*
CPSBD1011	Career Preparedness Program-II	PS	-	AECC	DCCC	2	1
Total						25	20+ 1*

III Semester

*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.

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IV Semester

Course Code	Course	CMRU Category	CMRU Sub Category	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
8CSGC1473	Software Engineering and Lab	Foundation	Fundamental	Major core	SSCS/ Industry	7	3-0-2-5
8CSGC2061	Design And Analysis of Algorithms	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	2	1-0-0-1
Audit Course:							
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.

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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
8CSPL2411	C# Programming and Lab	Foundation	Advanced	Major	SSCS	7	3-0-2-5
8CSAI3102	Artificial Intelligence and Lab	Foundation	Advanced	Major	SSCS	7	3-0-2-5
8CSDS3011 / 8CSGC3131	Elective : Big data analytics Ethical hacking and Cyber law	Foundation	Fundamental	Major	SSCS	3	3-0-0-3
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	KSC	CC	AECC	DCCC	2	2-0-0-2
Total						22	20 + 4 †
	Training and placement	PS		-	AECC	DCCC	GR
Audit Course :							

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

BSc IT Programme

VI Semester

Course Code	Course	CMRU Category	CMRU Sub category	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/ Industry	7	3-0-2-5
8CSAI3041	Internet of Things Lab	Foundation	Intermediate	Major core	SPSCS	4	0-0-2-2
8CSGC2101 / / 8CSGC2811	Elective : Data Warehousing and Mining / Cryptography and Information Security	Elective	Intermediate	Major	SSCS	3	3-0-0-3
CKSHA1011	Indian Traditions: Values and Critical Inquiry	KSC	CC	Major	SSCS		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*
GCSCD1021	Community Service Programme - II (COS-II)*	CS	-	-	DCCC	-	0-0-1-1*

GCSCD103 1	Community Service Programme - III (COS-III)*	CS	-	-	DCCC	-	0-0-1-1*
Total						26	25
Audit Course :							

†† 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