CMR UNIVERSITY
Private University Established in Karnataka State by Act No. 45 of 2013

School of Science and Computer Studies

MASTER OF COMPUTER APPLICATIONS (MCA)

Scheme of Teaching and Evaluation (STE)
Batch [2025-27]

School of Science and Computer Studies
Master of Computer Applications

CMR UNIVERSITY

I Semester

Sl. No.	Course Code	Course	CMRU Category	CMRU Sub category	UGC category	School	Contact Hours/ Week	Credit Distribution L-T-P-C
1	8CSGC6601	Advanced Data Structures using C and Lab	Foundation	AC	Program Core	SSCS	7	3-0-2-5
2	8CSGC6701	Advanced Database Management Systems and Lab	Foundation	IC	Program Core	SSCS	7	3-0-2-5
3	8RESE6012	Research Methodology and IPR	Multidisciplinary	MDC	MDC	SSCS	2	2-0-0-2
4	8STAT5041	Probability and Statistics	Foundation	IC	Program Core	SSCS	3	3-0-0-3
5	8CSAI6131 / 8CSGC6711	**Elective 1 :** Artificial Intelligence and Lab / Object Oriented Modelling and Design and Lab	Discipline Specific Elective	AC	Discipline Specific Elective	SSCS	7	3-0-2-5
	GCSCD1011	Community Service Programme - I (COS- I)*	CS	-	-	DCCC	(30)	0-0-1-1*
Total								**20 +1***
Common Core (Non Credit) - Graduate Requirement:								-
6	GPSBD1111	Communicative Skills in Digital Era	CC	GR	AECC	DCCC	2	
7	GPSBD1172	Career Readiness Program - I	CC	GR	AECC	DCCC	2	

*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 IV Semester.

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II Semester

Sl. No.	Course Code	Course	CMRU Category	CMRU Sub category	UGC category	School	Contact Hours/ Week	Credit Distribution L-T-P-C
1	8CSDS6201	Machine Learning using Python and Lab	Foundation	AC	CC	SSCS	7	3-0-2-5
2	8CSPL6421	Advanced Java Programming and Lab	Foundation	AC	CC	SSCS	7	3-0-2-5
3	8CSGC5251	Operating System	Foundation	IC	Program Core	SSCS	3	3-0-0-3
4	8CSGC6441	Advanced Computer Networks	Foundation (INDUSTRY FACING MODULE)	AC	CC	SSCS	3	3-0-0-3
5	8CSGC6432	Advanced Optimization Techniques	Foundation	IC	CC	SSCS	3	3-0-0-3
6	8CSGC6721 / 8CSPL6431	**Elective 2**: Data Warehousing & Data Mining and Lab/ Mobile Application Development and Lab	Discipline Specific Elective (INDUSTRY EXPERT/POP)	DSE	ELECTIVE	SSCS	7	3-0-2-5
7		**IDE1**					3	3-0-0-3
	GCSCD1021	Community Service Programme - II (COS-II)*	CS	-	-	DCCC	(30)	0-0-1-1*
		Total						**27 +1***
	Common Core (Non Credit) - Graduate Requirement:							-
8	GPSBT1041	Design Thinking (DTP)	CC	GR	AECC	DCCC	(30)	
9	GPSLA1061	Career Readiness Program - II	CC	GR	AECC	DCCC	2	

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

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III Semester

Sl. No.	Course Code	Course	CMRU Category	CMRU subcategory	UGC Category	School	Contact Hours/ Week	Credit Distribution L-T-P-C
1	8CSGC6732	Full Stack Development and Lab	Foundation (INDUSTRY FACING MODULE)	AC	CC	SSCS	7	3-0-2-5
2	8CSPL5451	.NET Framework & Applications and Lab	Foundation	AC	CC	SSCS	7	3-0-2-5
3	8CSGC5271	Network Information Security and Cyber Laws	Foundation (ONLINE)	AC	CC	SSCS	3	3-0-0-3
4	8CSGC6241	Software Project Management	Foundation	IC	Program Core	SSCS	3	3-0-0-3
5	8CSCC6201	Advanced Cloud Computing	Foundation	AC	CC	SSCS	3	3-0-0-3
6	8CSDS6211/ 8CSAI6141	Elective 3: Data Visualization and Lab /Internet of Things and Lab	Foundation (INDUSTRY EXPERT/POP)	AC	ELECTIVE	SSCS	7	3-0-2-5
7	8MOOC1XX1	MOOC	Foundation			-		4-0-0-4
8		IDE2					3	3-0-0-3
	8INTS7010	Internship I†† (SIP)	Foundation	Internship	CC	SSCS		
							Credits	**31**

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		Common Core (Non Credit) - Graduate Requirement:						
9	GPSDL1051	Strategies for Self-manage ment (SSM)	CC	GR	AECC	DCCC	1	-

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

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IV Semester

Sl. No.	Course Code	Course	CMRU Category	CMRU subcategory	UGC Category	school	Contact Hours/ Week	Credit Distribution L-T-P-C
1	8CSGC6311	Blockchain Technology	Foundation	AC	CC	SSCS	3	3-0-0-3
2	8CSGC6331 /8CSCC6131/ 8CSGC6361	Elective 4: Digital Image Processing/Cloud Security/ Wireless Sensor Network	Discipline Specific Elective (INDUSTRY FACING MODULE)	DSE	EC	PSPSCS	3	3-0-0-3
3	8INTS7010	Internship-I (SIP)	Foundation	Internship	CC			0-0-4-4
4	8CAPS7010	Capstone Project +Research Publication	Foundation	captones	DSE	SSCS		0-0-6-6
5	CSCD1011	Community Service Programme - I (COS- I)*	CS	-	-	DCCC	(30)	0-0-1-1
6	8CSCD1021	Community Service Programme - II(COS- II)*	CS	-	-	DCCC	(30)	0-0-1-1
	Total							18

Paper Publication Scopus Indexed/Web of Science or equivalent esteemed journals

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

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