

VAAGESWARI COLLEGE OF ENGINEERING

UGC AUTONOMOUS

Accredited by NAAC with A+ Grade and ISO 9001-2015 Certified.

Approved by AICTE New Delhi, Affiliated to JNTUH Hyderabad and Recognized by Govt. of Telangana

MASTER OF COMPUTER APPLICATIONS (MCA)

COURSE STRUCTURE & SYLLABUS (VR25)

Effective from Academic Year 2025-26 Admitted Batch

I YEAR I SEMESTER

Subject/Lab code	Course Title	L	T	P	Credits
25MCA101C	Mathematical Foundations of Computer Science	3	0	0	3
25MCA102C	C Programming and Data Structures	3	1	0	4
25MCA103C	Python Programming	3	0	0	3
25MCA104C	Operating Systems	3	0	0	3
25MCA105C	Accounting and Financial Management	3	0	0	3
25MCA106L	C Programming and Data Structures Lab	0	0	3	1.5
25MCA107L	Python Programming Lab	0	0	2	1
25MCA108L	Operating Systems Lab	0	0	3	1.5
	Total	15	1	8	20

I YEAR II SEMESTER

Subject/Lab code	Course Title	L	T	P	Credits
25MCA201C	Java Programming	3	0	0	3
25MCA202C	Database Management Systems	3	0	0	3
25MCA203C	Computer Networks	3	0	0	3
25MCA204C	Data Mining	3	0	0	3
25MCA205C	Software Engineering	3	0	0	3
25MCA206L	Database Management Systems Lab	0	0	4	2
25MCA207L	Computer Networks Lab	0	0	3	1.5
25MCA208L	Java Programming Lab	0	0	3	1.5
	Total	15	0	10	20

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II YEAR I SEMESTER

Subject/Lab code	Course Title	L	T	P	Credits
25MCA301C	Enterprise Cloud Concepts	3	0	0	3
25MCA302C	Full Stack Development	3	0	0	3
25MCA303C	Machine Learning	3	0	0	3
Professional Elective - I					
25MCA304E	Artificial Intelligence	3	0	0	3
25MCA305E	Information Retrieval Systems				
25MCA306E	Ad-hoc and Sensor Networks				
Professional Elective - II					
25MCA307E	Cyber Security	3	0	0	3
25MCA308E	Mobile Computing				
25MCA309E	Software Testing Methodologies				
25MCA310L	Enterprise Cloud Concepts Lab	0	0	3	1.5
25MCA311L	Full Stack Development Lab	0	0	3	1.5
25MCA312L	Machine Learning Lab	0	1	2	2
	Total	15	1	8	20

II YEAR II SEMESTER

Subject/Lab code	Course Title	L	T	P	Credits
Professional Elective - III					
25MCA401E	Internet of Things	3	0	0	3
25MCA402E	Mobile Application Development				
25MCA403E	Big Data Analytics				
Open Elective - I					
25MCA404O	e-Commerce	3	0	0	3
25MCA405O	Cyber Laws & Ethics				
25MCA406O	Management Information System				
25MCA407O	Entrepreneurship				
25MCA408S	Seminar	0	0	4	2
25MCA409R	Project Work Review - III	0	0	4	2
25MCA410P	Project Viva-Voce	0	0	20	10
	Total	6	0	24	20

***Note:** Please refer to Academic Regulations for Project Work Review – I & II.

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