



DEPARTMENT OF COMPUTER APPLICATIONS

MASTER OF COMPUTER APPLICATIONS 2026-27 CURRICULUM

Semester	Course Code	Title of the Course	NCrF level	SDG Goal	Instruction Hours / week			Credi(s)	Marks		
					L	T	P		CIA	ESE	Total
I	25CAP101	Advanced Python Programming	6.5	4,9	5	1	0	4	40	60	100
I	25CAP111	Advanced Python Programming Lab	6.5	4,8,9	0	0	4	2	40	60	100
I	25CAP102	Computer Organization and Architecture	6.5	4,9	5	1	0	4	40	60	100
I	25CAP103	Advanced Data Structures	6.5	4,9	5	1	0	4	40	60	100
I	25MAP161	Discrete Mathematics	6.5	4	5	1	0	4	40	60	100
I	25IKSP001	Introduction to Indian Knowledge System	6.5	4	2	0	0	2	40	60	100
Total					22	4	4	20	240	360	600
II	25CAP201	Advanced Java Programming	6.5	4,8,9	5	1	0	4	40	60	100
II	25CAP211	Advanced Java Programming Lab	6.5	4,9	0	0	4	2	40	60	100
II	25CAP202	Software Engineering	6.5	4,9,12	4	1	0	4	40	60	100
II	25CAP203	Database Management Systems	6.5	4,9	4	1	0	4	40	60	100
II	25CAP204	Advanced Design and Analysis of Algorithms	6.5	4,8,9	4	1	0	4	40	60	100
II	25MAP261	Resource Management Techniques	6.5	9,12	4	1	0	4	40	60	100
Total					21	5	4	22	240	360	600
III	25CAP301	Artificial Intelligence and Machine Learning	6.5	4,9	5	1	0	4	40	60	100
III	25CAP311	Artificial Intelligence and Machine Learning Lab	6.5	4,9	0	0	4	2	40	60	100
III	25CAP302	Cryptography and Network Security	6.5	9,16	5	1	0	4	40	60	100
III	25CAP303	Research Methodology	6.5	4,9,17	4	1	0	4	40	60	100
III	25CAP304	AI Tools for Research	6.5	4,9,17	2	1	0	2	40	60	100
III	25CAP331	Programme Elective -I	6.5	-	5	1	0	4	40	60	100
III	25CAP381	Internship	6.5	4,8,9	0	0	0	2	-	100	100
Total					21	5	4	22	240	460	700
IV	25CAP401	Android Application Development	6.5	4,9,11	5	1	0	4	40	60	100
IV	25CAP411	Android Application Development Lab	6.5	4,9	0	0	4	2	40	60	100
IV	25CAP431	Programme Elective -II	6.5	-	5	1	0	4	40	60	100
IV	25MGP407	Organisational Behaviour	6.5	4,8,9	5	1	0	4	40	60	100
IV	25CAP491	Major Project Work	6.5	4,8,9	0	0	8	6	40	60	100
Total					15	3	12	20	200	300	500

Programme Elective -I											
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					L	T	P		CIA	ESE	Total
III	25CAP331A	Internet of Things (IoT)	6.5	4,9,11,17	5	1	0	4	40	60	100
III	25CAP331B	Operating Systems	6.5	4,8,9	5	1	0	4	40	60	100
III	25CAP331C	Computer Graphics	6.5	4,8,9	5	1	0	4	40	60	100
III	25CAP331-D	Generative AI	6.5	4,8,9	5	1	0	4	40	60	100

Programme Elective -II											
Semester	Course Code	Title of the Course	NCrF level	SDG Goal	Instruction Hours / week			Credit(s)	Marks		
					L	T	P		CIA	ESE	Total
IV	25CAP431A	Full Stack Web Development	6.5	9	5	1	0	4	40	60	100
IV	25CAP431B	Image Processing	6.5	3,9	5	1	0	4	40	60	100
IV	25CAP431C	Cloud Computing	6.5	7,9,11	5	1	0	4	40	60	100
IV	25CAP431D	Vector Database Systems	6.5	7,9,11	5	1	0	4	40	60	100