Galgotias University
School of Computer Applications and Technology
Curriculum 2024-26
Master of Computer Application

		Credis					
SEM	I	II	III	IV		TOTAL	
MCA	20	22	22	20		84	

Semester 1

SNo.	Name of the Course	L	T	P	S	C	H
1	Problem Solving and Computer Programming	3	0	1	0	4	5
2	Computational Mathematics and Statistics	3	0	0	0	3	3
3	Database Management System	3	0	1	0	4	5
4	Digital Computer Organization	3	0	0	0	3	3
6	English Proficiency and Aptitude Building I	0	0	2	0	2	4
	Introduction to IT [Bridge Course])	3	0	1	0		5
5	Project	0	0	0	0	4	0
	Total Credits (MCA)					**20**	**25**

Semester II

SNo.	Name of the Course	L	T	P	S	C	H
1	Object Oriented Programming with Java	3	0	1	0	4	5
2	Machine Learning with Python	3	0	1	1	5	8
3	Data Structures	3	0	1	0	4	5
4	Verbal and Quantitative Reasoning	0	0	2	0	2	4
5	Data Communication & Networking	2	0	0	0	2	2
6	Operating Systems	2	0	0	0	2	2
7	Elective-I					3	3
	Total Credits (MCA)					**22**	**29**

Elective-I for II sem							
Sl No	Name of the Course	L	T	P	S	C	H
1	Software Engineering and Testing	3	0	0	0	3	3
2	Introduction to Cognitive Computing	3	0	0	0	3	3
3	Digital Image Processing	3	0	0	0	3	3

Semester III							
	Name of the Course	L	T	P	S	C	H
1	Mobile App Development	3	0	1	0	4	5
2	Design & Analysis of Algorithm	3	0	1	0	4	5
3	Elective-II	3	0	0	0	3	3
4	Elective-III				0	3	3
5	Professional Readiness	0	0	2	0	2	4
6	Minor Project	0	0	0	0	2	0
7	Internship	0	0	0	0	4	0
	Total Credits (MCA)					22	20

Elective-II for III sem							
Sno	Name of the Course	L	T	P	S	C	H
1	BlockChain	3	0	0	0	3	3
2	BigData	3	0	0	0	3	3
3	Internet of Things	3	0	0	0	3	3

Elective -III for III sem							
SNo	Name of the Course	L	T	P	S	C	H
1	Advanced Java Programming	2	0	1	0	3	4
2	Web Technology	2	0	1	0	3	4

Semester IV							
Sl No	Name of the Course	L	T	P	S	C	H

		L	T	P	S	C	H	
1	Major Project	0	0	0	0	20		
	Total Credits (MCA & MCA IOP)					**20**		

MCA Specializations Bucket

	Name of the Course	L	T	P	S	C	H	MCA IOP
	Introduction to Data Analytics	2	0	1	0	3	4	DA
	Cryptography	3	0	0	0	3	3	CNCS
	Introduction to Cloud Computing	3	0	0	0	3	3	CC
	Web Application Development	2	0	1	0	3	4	WDS
II	Artificial Intelligence (Generative AI)	3	0	0	0	3	3	AIML
	Advanced Data Analytics	2	0	1	0	3	4	DA
	Network Security	3	0	0	0	3	3	CNCS
	Advances in Cloud Computing	3	0	0	0	3	3	CC
	Advanced Web Application Development	2	0	1	0	3	4	WDS
III	Deep Learning and Neural Network	2	0	1	0	3	4	AIML

S. No	Section	Credit	%age
1	Program Core (PC)	40	48
2	Basic Sciences (BS) - Maths & Science	3	4
3	Language Courses / Soft Skills/Open electives	6	7
4	Program Electives (PE)	9	11
6	Technical Training		0
7	Projects	22	26
8	Industry / Intern/	4	5
	Total Credits of MCA	**84**	**100**