

Galgotias University
School of Computer Applications and Technology
Curriculum 2025-27
MCA IOP Data Analytics

	Credis				
SEM	I	II	III	IV	TOTAL
MCA IOP	20	26	27	20	93

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	0	0	2	0	2	4
5	Introduction to IT [Bridge Course])	3	0	1	0	4	5
Total Credits (MCA & MCA IOP)		15	0	5	0	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	3
8	Training-I	0	0	1	0	1	2
8	Data Analytics	3	0	0	0	3	3
Total Credits (MCA IOP)		19	0	6	1	26	34

Elective-I for II sem							
SNo.	Name of the Course	L	T	P	S	C	H
1	BlockChain	3	0	0	0	3	3
2	Cognitive Computing and Modeling	3	0	0	0	3	3
3	Internet of Things	3	0	0	0	3	3
4	Data Science with R	2	0	1	0	3	3

Semester III							
SNo.	Name of the Course	L	T	P	S	C	H
1	Applications of Data Analytics	3	0	1	1	5	8
2	Design & Analysis of Algorithm	3	0	1	0	4	5
3	Elective-II	3	0	0	0	3	3
4	Elective-III	2	0	1	0	3	3
5	Professional Readiness	0	0	2	0	2	4
6	Minor Project	0	0	2	0	2	0
7	Internship	0	0	4	0	4	0
8	Training-II	0	0	1	0	1	2
9	Data Visualization	2	0	1	0	3	3
Total Credits (MCA IOP)		13	0	13	1	27	28

Elective-II for III sem							
SNo.	Name of the Course	L	T	P	S	C	H
1	Software Engineering and Testing	3	0	0	0	3	3
2	Big Data	3	0	0	0	3	3
3	Digital Image Processing	3	0	0	0	3	3
4	Data Warehousing and Mining	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							
SNo.	Name of the Course	L	T	P	S	C	H
1	Major Project	0	0	0	0	20	
Total Credits (MCA & MCA IOP)			0			20	