

Galgotias University
School of Computing Science and Engineering
Curriculum MCA & MCA IOP2023-25

Program Structure of Bridge Course for MCA

Semester I										
Sl. No	Course Code	Name of the Course						Assessment Pattern		
			L	T	P	C	H	IA	MTE	ETE
S No.	Course Code	Course Name	L	T	P	C		20	30	50
1	MCAN1011	Introduction to Information Technology	2	0	0	2	2	20	30	50
2	MCAN1012	Fundamentals of Digital Computers	2	0	0	2	2	20	30	50
Total Credits						4				

Credits	I
MCA	21
MCA IOP	25

Program Structure of MCA and MCA Specializations

Semester I										
S No.	Course Code	Name of the Course						Assessment Pattern		
			L	T	P	C	H	IA	MTE	ETE
1	MCAN1110	Problem Solving and Computer Programming	2	0	0	2	2	20	30	50
2	MCAN1120	Discrete Mathematics	3	0	0	3	3	20	30	50
3	MCAN1130	Operating System with Linux	3	0	0	3	3	20	30	50
4	MCAN1140	Database Management System	3	0	0	3	3	20	30	50
5	MCAN1150	Data Communication & Networking	3	0	0	3	3	20	30	50
6	MCAS1171	Problem Solving Techniques Lab	0	0	4	2	4	50		50
7	MCAN1131	Operating System with Linux Lab	0	0	2	1	2	50		50
8	MCAN1141	Database Management System Lab	0	0	2	1	2	50		50
9	MCAN1151	Data Communication & Networking Lab	0	0	2	1	2	50		50
10	SLMC5011	English Proficiency and Aptitude Building -1			4	2	4	50		50
Total Credits (MCA)						21	28			
13		Specialize Core Theory-I	3	0	0	3		20	15	30
14		Specialize Core Lab -I	0	0	2	1		15		20
Total Credits (MCA Spl)						25	33			

Semester II										
Sl No	Course Code	Name of the Course						Assessment Pattern		
			L	T	P	C	H	IA	MTE	ETE
1	MCAN1210	Object Oriented Programming with Java	3	0	0	3	3	20	30	50
2	MCAN1240	Software Engineering and Testing	3	0	0	3	3	20	30	50
3	MCAN1250	Programming with Python	3	0	0	3	3	20	30	50
4	MCAN1260	Data structure	3	0	0	3	3	20	30	50
5	MCAN1290	Web Technologies	3	0	0	3	3	20	15	30
6	SLMC5012	English Proficiency and Aptitude Building – 2	0	0	4	2	4	100		
7	MCAN1001	Technical Training-I	0	0	2	1	2	100		
8	MCAN1211	Object Oriented Programming with Java Lab	0	0	2	1	2	100		
9	MCAN1251	Programming with Python Lab	0	0	2	1	2	100		
10	MCAN1261	Data structure Lab	0	0	2	1	2	100		
11	MCAN1291	Web Technologies PBL Lab	0	0	2	1	2	35		
Total Credits (MCA)						22	29			
		Specialize Core Theory -II	3	0	0	3		20	15	30
15		Specialize Core Lab-II	0	0	2	1		35		
Total Credits (MCA Spl)						26	34			

Semester III										
Sl No	Course Code	Name of the Course						Assessment Pattern		
			L	T	P	C	H	IA	MTE	ETE
1	MCAN2340	Mobile Android App Development	3	0	0	3	3	20	15	30
2	MCAN2341	Mobile Android App Development Lab	0	0	2	1	1	35		
3		PE	3	0	0	3	3	20	30	50
4	MCAN2330	Design & Analysis of Algorithm	3	0	0	3	3	20	30	50
5	MCAN2420	Web Development using Python	3	0	0	3	3	20	30	50
6	SLMC5013	Campus to Corporate	0	0	4	2	4	100		
7	MCAN2351	Technical Training-II	0	0	2	1	2	100		
8	MCAN6667	Minor Project	0	0	0	2	2	100		
9	MCAN2331	Design & Analysis of Algorithm Lab	0	0	2	1	2	100		
10										
11	MCAN2333	Industry Internship	0	0	0	4	0	100		

12	MCAN2421	Web Development using Python Lab	0	0	2	1	2	100		
Total Credits (MCA)						24	25			
11		Specialize Core Theory-III	3	0	0	3		20	15	30
12		Specialize Core Lab-III	0	0	2	1		35		
Total Credits (MCA Spl)						29	31			

Program Elective (PE) for III sem

SI No	Course Code	Name of the Course					Assessment Pattern		
			L	T	P	C	IA	MTE	ETE
1	MCAN2320	Artificial Intelligence	3	0	0	3	20	30	50
2	MCAN2350	Internet of Things	3	0	0	3	20	30	50

Semester IV

SI No	Course Code	Name of the Course					Assessment Pattern		
			L	T	P	C	IA	MTE	ETE
1	MCAN2410	NPTEL COURSE	3	0	0	3	20	30	50
2	MCAN9900	Major Project	0	0	0	20	50		50
Total Credits (MCA)						23			
Total Credits (MCA Spl)						23			

MCA Specializations Bucket

SI No	Course Code	Name of the Course	IOP	SEM
			Buck	
1	MCAE1112	Probability for Data Science	DA	I
2	MCAE1121	Cryptography and Network Security	CNC S	
3	MCAE1131	Cloud Computing	CC	
4	MCAE1141	Java Script	WDS	
5	MCAE2412	Machine learning	DA	II
6	MCAE2322	Security Threats and Trends	CNC S	
7	MCAE1232	Cloud Organization & Architecture	CC	
8	MCAE1241	User Interface Design	WDS	
9	MCAE2351	Data analysis, handling & Visualization	DA	III
10	MCAE2421	Ethical Hacking	CNC S	
11	MCAE2332	Fundamentals of Virtualization, Cloud Security & Management	CC	
12	MCAE2442	Advance Web Application Development	WDS	

II	III	IV	TOTAL
22	24	23	90
26	28	23	102

