Curriculum for MCA Program

SUBJECTS FOR BRIDGE COURSE

Note that students with B.Sc./ B. Com./ B.A. degree (Non-Computer Science/Non-lT) would have to satisfactorily complete the **Four-weeks Bridge Course** (B-1 and B-II) before the commencement of the first semester of the 2-year MCA program.

Theoretical Courses	Subjects for Bridge Course		Periods/week					
	Subject Code	Subject Name	L	T	P	Examination	Sessional	Credit Points
B-I	CSE/MCA /T/B11	Fundamentals of Computer Science				50		0
B-II	CSE/MCA/T/B12	Basic Electronics				50		0
						100		00

FIRST YEAR FIRST SEMESTER

Theoretical Courses	Subjects		Periods/Weeks			Marks		Credit Points
	Subject Code	Subject Name	L	T	P	Examination	Sessional	
Paper-I	CSE/MCA/T/111A	Programming Fundamentals and Object Oriented Concepts	4			100		4
Paper-II	CSE/MCA/Math/T/112A	Mathematical Foundations	3			100		3
Paper-III	CSE/MCA/T/113A	Management Information Systems	3			100		3
Paper-IV	CSE/MCA/T/114A	Digital Systems	3			100		3
Paper-V	CSE/MCA/T/115A	Graph theory and Combinatorics	3			100		3

Sessional Courses	Subjects		Periods/Weeks			Marks		Credit Points
	Subject Code	Subject Name	L	T	P	Examination	Sessional	
Sessional-I	CSE/MCA/S/111	Computer Programming Lab			3		100	2
Sessional-II	CSE/MCA/S/112	Digital Systems Lab			3		100	2
Sessional-III	CSE/MCA/Hum/S/113	Communication Skills and Language Lab			3		100	2
			16		9	500	300	22

FIRST YEAR SECOND SEMESTER

Theoretical Courses	Subject Code	Subject Name	L	T	P	Examination	Sessional	Credit Points
	Subjects		**Periods/Weeks**			**Marks**		
Paper-VI	CSE/MCA/T/121A	Data Structures and Algorithms	3			100		3
Paper-VII	CSE/MCA/T/122A	Advanced Programming with Java and Python	3			100		3
Paper-VIII	CSE/MCA/T/123A	Computer Organization and Architecture	3			100		3
Paper-IX	CSE/MCA/T/124A	Operating Systems	3			100		3
Paper-X	CSE/MCA/T/125A	Database Management Systems	3			100		3
Sessional Courses	**Subjects**		**Periods/Weeks**			**Marks**		**Credit Points**
	Subject Code	Subject Name	L	T	P	Examination	Sessional	
Sessional-IV	CSE/MCA/S/121	Data Structures and Algorithms Lab			3		100	2
Sessional-V	CSE/MCA/S/122	Operating Systems Lab			3		100	2
Sessional-VI	CSE/MCA/S/123	Database Management Systems Lab			3		100	2
Sessional-VII	CSE/MCA/S/124	Advanced Programming lab			3		100	2
			15		12	500	400	23