Annexure – IV

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Program: Master in Computer Applications

The overall credits structure

BD Core (BC)		BD Elective (BE)	
Category	**Credits**	**Category**	**Credits**
DC	80	DE	16
MB	08		
BS	16		
Total	**104**	**Total**	**16**

Total Credits = 120

Basic Science (BS) Core			
MCA-123	Computer based numerical statistical techniques	3-1-0	4
MCA-114	Mathematical Foundations of Computer Science	3-1-0	4
MCA-124	Theory of Computation	3-1-0	4
MCA-225	Optimization Technique	3-1-0	4
	Total BS Core	**12-4-0**	**16**

Management and Business(MB)			
MCA-115	Accounting	3-1-0	4
MCA-122	Organizational Behavior	3-1-0	4
	Total MB	**6-2-0**	**08**

Departmental Electives (DE)			
MCA-224	ELECTIVE-I	3-1-0	4
MCA-311	ELECTIVE-II	3-1-2	4
MCA-312	ELECTIVE-III	3-1-0	4
MCA-315	ELECTIVE-IV	3-1-2	4
	Total DE	**12-4-4**	**16**

Discipline Core (DC)			
MCA-111	Programming and Problem Solving using C	3-0-0	3
MCA-112	Computer Organization and Architecture	3-0-0	3
MCA-113	Data Communication	3-1-0	4
MCA-116	Lab-I (Windows & C)	0-0-2	1
MCA-117	Lab-II (Digital Electronics)	0-0-2	1
MCA-118	Mini Project 1	0-0-2	1
MCA-121	Object Oriented Programming	3-0-0	3
MCA-125	Data Structure	3-0-0	3
MCA-126	Lab-III (C++)	0-0-2	1
MCA-127	Lab-IV (Data Structure)	0-0-2	1
MCA-128	Mini Project 2	0-0-2	1
MCA-211	Advanced Database Management System	3-0-0	3
MCA-211L	Advanced Database Management System(Lab)	0-0-2	1
MCA-212	Distributed Operating Systems	3-1-0	4
MCA-213	Software Engineering and Paradigm	3-1-0	4
MCA-214	Advanced Design and Analysis of Algorithm	3-1-0	4
MCA-215	Advanced Computer Networks	3-1-0	4
MCA-219	Mini Project 3	0-0-4	2
MCA-221	System and Network Administration	3-1-0	4
MCA-222	Computer Graphics	3-0-0	3
MCA-222L	Computer Graphics(Lab)	0-0-2	1
MCA-223	Network Security and Cryptology	3-1-0	4
MCA-229	Mini Project 4	0-0-4	2
MCA-313	Data Warehousing & Data Mining	3-1-0	4
MCA-314	Mathematical Foundations of Data Science	3-1-0	4
MCA-316	Mini project 5	0-0-6	3
MCA-321	MAJOR PROJECT	0-0-16	8
MCA-322	Seminar	0-0-6	3
	Total Core	**45-9-52**	**80**