MASTER OF COMPUTER APPLICATION (3 Yr) Course Code - 20304 MASTER OF COMPUTER APPLICATION (2 Yr) Course Code - 20704 MASTER OF SCIENCE IN COMPUTER SCIENCE Course Code - 20312 MASTER OF SCIENCE IN INFORMATION TECHNOLOGY

Course Code – 20313

MANAGEMENT Course Code - 20314

UNDER CBCS (With effect from 2014)

WE DO NOT PROVIDE ANY PLACEMENT ASSISTANCE. STUDENTS GET EMPLOYED THROUGH SELF INITIATIVES.

Course Structure (Course is under revision)

EFFECTIVE FROM 2014 – 15 ACADEMIC SESSIONS IN REGULAR MODE FIRST SEMESTER (9 Papers)

PAPER	SUBJECT	FULL MARK	L-T-P	CREDIT
CS 1.1	Introduction to Information Technology	100	3-1-0	4
CS 1.2	Programming Logic & C Programming	100	3-1-0	4
CS 1.3	Discrete Mathematics	100	3-1-0	4
CS 1.4	Probability & Statistics	100	3-1-0	4
Any two	from followings (CS 1.5 & CS 1.6)			
1.	Accounting & Financial Management	100	3-1-0	4
2.	Principles of Management	100	3-1-0	4
3.	Business & Communicative English	100	3-1-0	4
4.	Editing Skills	100	3-1-0	4
CS 1.7	Practical - I	50	0-0-6	4
CS 1.8	Practical - II	50	0-0-6	4
CS 1.9	Practical - III	50	0-0-6	4
TOTAL 750			36	

SECOND SEMESTER (9 Papers)

PAPER	SUBJECT	FULL MARK	L-T-P	CREDIT
CS 2.1	DATA STRUCTURE	100	3-1-0	4
CS 2.2	Digital circuit & Logic Design	100	3-1-0	4
CS 2.3	Object Oriented Programming using C++	100	3-1-0	4
CS 2.4	Quantitative Techniques	100	3-1-0	4
CS 2.5	Numerical Analysis	100	3-1-0	4
Any One from	n followings (CS 2.6)			
1.	Organisational Behaviour	100	3-1-0	4
2.	Business Economics	100	3-1-0	4
3.	Marketing Management	100	3-1-0	4
CS 2.7	Practical - I	50	0-0-6	4
CS 2.8	Practical - II	50	0-0-6	4
CS 2.9	Practical - III	50	0-0-6	4
	TOTAL 750			36

THIRD SEMESTER (9 Papers)

PAPER	SUBJECT	FULL MARK	L – T – P	CREDIT
CS 3.1	Operating System	100	3-1- 0	4
CS 3.2	Data Communication & Computer Networks	100	3-1- 0	4
CS 3.3	Microprocessor & Assembly Language Programming	100	3-1- 0	4
CS 3.4	Database Management System	100	3-1- 0	4
CS 3.5	Computer Architecture	100	3-1- 0	4
CS 3.6	Theory of Computation	100	3-1- 0	4
CS 3.7	Practical - I	50	0-0-6	4
CS 3.8	Practical - II	50	0-0-6	4
CS 3.9	Practical - III	50	0-0-6	4
	TOTAL 750			36

FOURTH SEMESTER (9 Papers)

PAPER	SUBJECT	FULL MARK	L-T-P	CREDIT
CS 4.1	Software Engineering	100	3-1- 0	4
CS 4.2	Artificial Intelligence	100	3-1-0	4
CS 4.3	Internet & Java Programming	100	3-1- 0	4
CS 4.4	Computer Graphics	100	3-1- 0	4
CS 4.5	Combinatorics & Graph Theory			
CS 4.6	Advance Computer Network	100	3-1- 0	4
CS 4.7	Practical - I	50	0-0-6	4
CS 4.8	Practical - II	50	0-0-6	4
CS 4.9	Practical - III	50	0-0-6	4
TOTAL 750			36	

FIFTH SEMESTER (9 Papers)

PAPER	SUBJECT	FULL MARK	L – T – P	CREDIT	
CS 5.1	Data mining & Data Warehousing	100	3-1- 0	4	
CS 5.2	Analysis & Design of Algorithms	100	3-1-0	4	
CS 5.3	Compiler Design	100	3-1-0	4	
For MCA	Students (CS 5.4, CS 5.5, CS 5.6)			•	
(Any Thre	ee from the followings)				
1.	Distributed Systems	100	3-1- 0	4	
2.	Parallel Computing	100	3-1- 0	4	
3.	Digital Image Processing	100	3-1- 0	4	
4.	Computer Network Security	100	3-1- 0	4	
5.	Web Engineering	100	3-1- 0	4	
	c. (Computer Science) Students (CS 5.4, CS	5.5, CS 5.6)			
(Any Thr	ee from the followings)				
1.	Realtime Systems	100	3-1- 0	4	
2.	Soft Computing	100	3-1- 0	4	
3.	Client Server Computing	100	3-1- 0	4	
4.	Computer Vision	100	3-1- 0	4	
5.	Bioinformatics	100	3-1- 0	4	
	M.Sc. (IT / ITM) Students (CS 5.4, CS 5.5,	CS 5.6)			
(Any Three from the followings)					
1.	Computer Network Security	100	3-1- 0	4	
2.	Embedded System	100	3-1- 0	4	
3.	Cloud Computing	100	3-1- 0	4	
4.	Mobile Computing	100	3-1- 0	4	
5.	Pattern Recognition	100	3-1- 0	4	
CS 5.7	Practical - I	50	0-0-6	4	
CS 5.8	Practical - II	50	0-0-6	4	
CS 5.9	Practical - III	50	0-0-6	4	
CS 5.10	Pre Placement Techniques (Non Credit)				
		Т	OTAL 750	36	

SIXTH SEMESTER (PROJECT WORK FOR 16 WEEKS**)

PAPER	SUBJECT	FULL MARK	L-T-P	CREDIT
CS 6.1	Grand Viva	100		4
	Dissertation / Project & Presentation	300		8
	TOTAL	400		12

^{**} There will be a 16 weeks project work to be undertaken by the students in any Industry / Institution. At the end of the project there will an evaluation of the project for 12 credits by an External & Internal Examiner .

Those who have not passed Mathematics / Statistics at +2 Level have to pass a Bridge Course consisting of two +2 Level Mathematics Course (Non Credit).

BRIDGE COURSE

PAPER	SUBJECT	FULL MARK	L – T – P	CREDIT
CS B.1	Mathematical Foundation for Computer Science - I	100	40 Hours	
CS B.2	Mathematical Foundation for Computer Science - II	100	40 Hours	

The examination for the above Non Credit papers shall be conducted during first and / or second semester of MCA Programme.