

STRUCTURE OF MCA SYLLABUS OF G.U. wef 2010

1st Semester subjects

Paper	Subject Name	Theory/ Practical Marks	Sessional Marks	Total Marks
1.1	Introductory Programming (IP)	75	25	100
1.2	Digital Systems (DS)	75	25	100
1.3	Mathematical Foundation of Computer Science (MFCS)	75	25	100
1.4	Accounting and financial management (AFM)	75	25	100
1.5	Probability and Statistics (PS)	75	25	100
1.6	Laboratory-I (LAB-1)	100	100	200
TOTAL				700

2nd Semester subjects

Paper	Subject Name	Theory/ Practical Marks	Sessional Marks	Total Marks
2.1	Data structure and Algorithms (DSA)	75	25	100
2.2	Computer Organisation (CO)	75	25	100
2.3	Computer based optimisation techniques (CBOT)	75	25	100
2.4	Graph Theory (GT)	75	25	100
2.5	Computer oriented numerical methods(CONM)	75	25	100
2.6	Laboratory-II (LAB-2)	100	100	200
TOTAL				700

3rd Semester subjects

Paper	Subject Name	Theory/ Practical Marks	Sessional Marks	Total Marks
3.1	System Software (SS)	75	25	100
3.2	Design and Analysis of Algorithms (DAA)	75	25	100
3.3	Database Management Systems (DBMS)	75	25	100
3.4	Object Oriented Programming and Design (OOPD)	75	25	100
3.5	Formal Languages and Automata Theory (FLAT)	75	25	100
3.6	Laboratory-III (LAB-3)	100	100	200
TOTAL				700

4th Semester subjects

Paper	Subject Name	Theory/ Practical Marks	Sessional Marks	Total Marks
4.1	Operating Systems (OS)	75	25	100
4.2	Software Engineering(SE)	75	25	100
4.3	Computer Network -I	75	25	100
4.4	Web Technology (WT)	75	25	100
4.5	Elective-I	75	25	100
4.6	Laboratory-IV (LAB-4)	100	100	200
TOTAL				700

5th Semester subjects

Paper	Subject Name	Theory/ Practical Marks	Sessional Marks	Total Marks
5.1	Computer Networks-II	75	25	100
5.2	Management Information System(MIS)	75	25	100
5.3	Elective-II	75	25	100
5.4	Elective-III	75	25	100
5.5	Seminar			50
5.6	Minor Project	150	100	250
TOTAL				700

6th Semester subjects

Paper	Subject Name	Theory/ Practical Marks	Sessional Marks	Total Marks
6.1	Project Viva and Thesis Exam (External) PVT(E)	300	----	300
6.2	Project Viva and Thesis Exam (Internal) PVT(I)	200	----	200
				500

ELECTIVE SUBJECTS:

Elective -I

- (a) Programming Languages(PL)
- (b) Computer Graphics(CG)
- (c) System Simulation and Modelling (SSM)
- (d) Number theory and Cryptography(NTC)

Elective-II and Elective III

- (a) Computer and Network Security (CNS)
- (b) Information Storage and Retrieval (ISR)
- (c) Data Mining and warehousing (DMW)
- (d) Advanced Database (AD)
- (e) Pattern Recognition & Image processing (PR&IP)
- (f) Artificial Intelligence (AI)
- (g) Remote Sensing and GIS (RSG)
- (h) Software Project Management (SPM)
- (i) Soft Computing(SC)
- (j) Distributed Systems (DS)
- (k) Wireless Networks (WN)