

SCHEME OF STUDY AND EXAMINATION FOR MASTER OF SCIENCE IN COMPUTER SCIENCE UNDER  
CBCS AND CAGP Scheme w.e.f.2011-12 onwards.

Paper Code	Title of the Course	Sem-ester Exam	IA	Total	Duration of Theory/ Practical Exam. hrs	L	T	P	Credits
<b>First Semester</b>									
<b>Hard Core</b>		Marks							
HCT1.1	Digital Logic and Computer Design	80	20	100	03	4	0	0	4
HCT1.2	Mathematical Foundation for Computer Science	80	20	100	03	4	0	0	4
HCT1.3	Data Structures Using C++	80	20	100	03	4	0	0	4
<b>Soft-Core (Any One)</b>									
SCT1.1	Operating System Principles	80	20	100	03	4	0	0	4
SCT1.2	Bioinformatics	80	20	100	03	4	0	0	4
<b>Practical</b>									
HCP1.1	Practical-I :Prolog and Digital Logic Lab	40	10	50	1.1/2	0	0	4	2
HCP1.2	Practical-II: C++ Lab	40	10	50	1.1/2	0	0	4	2
HCP1.3	Practical-III: Data Structures Lab	40	10	50	1.1/2	0	0	4	2
<b>Soft Core (Any One)</b>									
SCP 1.1	Practical-IV (a): Linux/Unix Lab	40	10	50	1.1/2	0	0	4	2
SCP 1.2	Practical-IV (b): Bioinformatics Lab	40	10	50	1.1/2	0	0	4	2
Total for First Semester		480	120	600					24
<b>Second Semester</b>									
<b>Hard Core</b>									
HCT2.1	Design and Analysis of Algorithms	80	20	100	03	4	0	0	4
HCT2.2	Database Management System	80	20	100	03	4	0	0	4
<b>Soft Core (Any One)</b>									
SCT2.1	System Software	80	20	100	03	4	0	0	4
SCT2.2	Advanced Computer Architecture	80	20	100	03	4	0	0	4
<b>Open Elective (Any One)</b>									
OET2.1	Introduction to Computers and Programming in C	80	20	100	03	4	0	0	4
OET2.2	Pattern Recognition	80	20	100	03	4	0	0	4
<b>Practicals</b>									
HCP2.1	Practical-I: Algorithms Lab	40	10	50	1.1/2	0	0	4	2
HCP2.2	Practical-II: DBMS Lab	40	10	50	1.1/2	0	0	4	2
<b>Soft Core (Any One)</b>									
SCP2.1	Practical-III (a): Visual Programming Lab	40	10	50	1.1/2	0	0	4	2
SCP2.2	Practical-III (b): Computer Architecture	40	10	50	1.1/2	0	0	4	2
<b>Open Elective (Any One)</b>									
OEP2.1	Practical-IV (a): Office Packages and C Lab	40	10	50	1.1/2	0	0	4	2
OEP2.2	Practical-IV (b): Pattern Recognition Lab	40	10	50	1.1/2	0	0	4	2
Total for Second Semester		480	120	600					24

L= Lecture T= Tutorials P = Practicals, 4 Credits of Theory = 4 hours of teaching per week, 2 Credits of Practicals = 4 hours per week.

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<b>Third Semester</b>									
<b>Hard Core</b>									
HCT3.1	Programming in JAVA	80	20	100	03	4	0	0	4
HCT3.2	Data Communications and Computer Networks	80	20	100	03	4	0	0	4
<b>Soft Core (Any One)</b>									
SCT3.1	Computer Graphics	80	20	100	03	4	0	0	4
SCT3.2	Neural Networks and Fuzzy Systems	80	20	100	03	4	0	0	4
<b>Open Elective (Any One)</b>									
OET3.1	Information Technology	80	20	100		4	0	0	4
OET3.2	Theory of Computation	80	20	100		4	0	0	4
<b>Practicals</b>									
HCP3.1	Practical-I: Java Programming Lab	40	10	50	1.1/2	0	0	4	2
HCP3.2	Practical-II: Computer Networks Lab	40	10	50	1.1/2	0	0	4	2
<b>Soft Core (Any One)</b>									
SCP3.1	Practical-III (a): Computer Graphics Lab	40	10	50	1.1/2	0	0	4	2
SCP3.2	Practical-III (b): Neural Networks and Fuzzy Systems Lab	40	10	50	1.1/2	0	0	4	2
<b>Open Elective (Any One)</b>									
OEP3.1	Practical-IV (a): Internet Tools and Web Design Lab	40	10	50	1.1/2	0	0	4	2
OEP3.1	Practical-IV (b): Computational Lab	40	10	50	1.1/2	0	0	4	2
Total for Third Semester		480	120	600					24
<b>Fourth Semester</b>									
<b>Hard Core</b>									
HCT4.1	Internet working and Web Design	80	20	100	03	4	0	0	4
HCT4.2	Software Engineering	80	20	100	03	4	0	0	4
<b>Soft-Core (Any One)</b>									
SCT4.1	Artificial Intelligence	80	20	100	03	4	0	0	4
SCT4.2	Data Warehousing and Mining	80	20	100	03	4	0	0	4
SCT4.3	Mobile Communications	80	20	100	03	4	0	0	4
SCT4.4	Embedded Systems	80	20	100	03	4	0	0	4
SCT4.5	Digital Image Processing	80	20	100	03	4	0	0	4
<b>Practical</b>									
HCP4.1	Practical-I: Web Design Lab	40	10	50	1.1/2	0	0	4	2
HCP4.2	Practical-II: Software Engineering Lab	40	10	50	1.1/2	0	0	4	2
<b>Soft Core (Any One)</b>									
SCP4.1	Practical-III (a): Artificial Intelligence Lab	40	10	50	1.1/2	0	0	4	2
SCP4.2	Practical-III (b): Data Warehousing and Mining Lab	40	10	50	1.1/2	0	0	4	2
SCP4.3	Practical-III (c): Mobile Communications Lab	40	10	50	1.1/2	0	0	4	2
SCP4.4	Practical-III (d): Embedded Systems Lab	40	10	50	1.1/2	0	0	4	2
SCP4.5	Practical-III (e): Digital Image Processing Lab	40	10	50	1.1/2	0	0	4	2
HCMP 4.3	Major Project (90 Project Evaluation + 30 for Viva Voce + 30 IA = 150)	120	30	150	--	0	0	6	6
Total for Fourth Semester		480	120	600					24

Lecture T= Tutorials P = Practicals, 4 Credits of Theory = 4 hours of teaching per week, 2 Credits of Practicals = 4 hours per week