

MASTER OF SCIENCE IN COMPUTER SCIENCE(M.Sc.-CS)

Syllabus

w.e.f. 2013-2014

P.G. Department of Computer Science, S.N.D.T. Women's
University Santacruz(w),
Mumbai-49

M.Sc.(CS) SEMESTER-I

Code	Subject Title	Teaching Period / Week		Credits			Duration of Theo. Exam. (in Hrs.)
		L	Pr./ Tw.	Int.- C.A.	Ext - Theo. Exam.	Total Cr.	
1101	Programming Paradigms	4	-	2	2	4	2
1102	Computer Organization and Architecture	4	-	2	2	4	2
1103	Numerical Methods	4	-	2	2	4	2
1104	Operating Systems	4	-	2	2	4	2
1201	Programming Lab-I*	-	2	1	1	2	1
1202	Operating Systems Lab*	-	2	1	1	2	1
1203	Numerical Methods Lab*	-	2	1	1	2	1
1204	Advanced Web Technology Project *		2	1	1	2	1
Total		16	8			24	-

SEMESTER-I	1 Credit=25 Marks Total Credits = 24 Total Marks = 24*25=600
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M.Sc. (CS) SEMESTER-II

Code	Subject Title	Teaching Period / Week		Credits			Duration of Exam. (in Hrs.)
		L	Pr./ Tw.	Int.- C.A.	Ext - Theo. Exam.	Total Cr.	
2101	Structured Systems Analysis and Design	4	-	2	2	4	2
2102	Advanced Database Management Systems	4	-	2	2	4	2
2103	Systems Software	4	-	2	2	4	2
2104	Advanced Computer Networks	4	-	2	2	4	2
2201	Programming Lab-II*	-	2	1	1	2	1
2202	Advanced Database Management Systems Project *	-	2	1	1	2	1
2203	System Software Project *	-	2	1	1	2	1
2204	Structured Systems Analysis and Design Project *		2	1	1	2	1
Total		16	16	8			24

SEMESTER-II	1 Credit=25 Marks Total Credits = 24 Total Marks = 24*25=600
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M.Sc. (CS) SEMESTER-III

v	Subject Title	Teaching Period / Week		Credits			Duration of Exam. (in Hrs.)
		L	Pr./ Tw.	Int.- C.A.	Ext - Theo. Exam.	Total Cr.	
3101	Data Structures and Analysis of Algorithms	4	-	2	2	4	2
3102	Advanced Java	4	-	2	2	4	2
3103	Elective-I	4	-	2	2	4	2
3104	Research Methodology	4	-	2	2	4	2
3201	Data Structures Lab*	-	2	1	1	2	1
3202	Advanced Java Project *	-	2	1	1	2	1
3203	Elective-I Project *	-	2	1	1	2	1
3204	Advanced Technology Project *	-	2	1	1	2	1
Total		16	8			24	

SEMESTER-III	1 Credit=25 Marks Total Credits = 24 Total Marks = 24*25=600
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M.Sc. (CS) SEMESTER-IV

Code	Subject Title	Teaching Period / Week		Credits			Duration of Exam. (in Hrs.)
		L	Pr./ Tw.	Int.- C.A.	Ext - Theo. Exam.	Total Cr.	
4101	Software Engineering	4	-	2	2	4	2
4102	Elective-II	4	-	2	2	4	2
4201	Research Seminar*	-	4	2	2	4	-
4202	Major Project*	-	12	6	6	12	-
Total		8	16			24	-

SEMESTER-IV	1 Credit=25 Marks Total Credits = 24 Total Marks = 24*25=600
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SEMESTER				1 Credit=25 Marks Total Credits = 96 Total Marks = 96*25=2400
I	II	III	IV	
24	24	24	24	

Elective-I

1. Artificial Intelligence
2. Neural Networks
3. Computer Graphics
4. Dataware Housing And Data Mining
5. Embedded System
6. Mobile Computing

Elective-II

1. Computer Vision
2. Digital Image Processing
3. Human Computer Interaction
4. Distributed Computing
5. Simulation And Modeling
6. E-COMMERCE

Terms Used:

Pr.: Practical

C.A.: Continuous Assessment

Tw.: Term Work

Cr.: Credits

Int.: Internal

Ext.: External