

**Scheme of Teaching and Examination for
Master of Engineering (Computer Science and Engineering)
Two years Full time Course**

Semester-I									
Subject Code	Subject	Hours per week			Scheme of Examination				
		L	T	P	Theory (Hrs)	Credits			
						Theory	IA	Pract	Total
MCSE 1.1	Advance Data Structure and Algorithm	4	-	-	3	4	2	-	6
MCSE 1.2	Distributed Operating System	4	-	-	3	4	2	-	6
MCSE 1.3	Advances in Computer Architecture	4	-	-	3	4	2	-	6
MCSE 1.4	Elective-I	4	-	-	3	4	2	-	6
MCSE 1.5	Elective –II	4	-	-	3	4	2	-	6
MCSE 1.6	Programming Lab-I	---	--	8	--	-	2	4	6
	Total	20	-	8		20	12	4	36

Semester-II									
Subject Code	Subject	Hours per week			Scheme of Examination				
		L	T	P	Theory (Hrs)	Credits			
						Theory	IA	Pract	Total
MCSE 2.1	Advanced Concepts in Database System	4	-	-	3	4	2	-	6
MCSE 2.2	Design and Analysis of Computer Networks	4	-	-	3	4	2	-	6
MCSE 2.3	Advanced Software Engineering	4	-	-	3	4	2	-	6
MCSE 2.4	Elective-III	4	-	-	3	4	2	-	6
MCSE 2.5	Elective –IV	4	-	-	3	4	2	-	6
MCSE 2.6	Programming Lab -II	---	--	8	-	-	2	4	6
	Total	20	-	8		20	12	4	36

Semester-III									
Subject Code	Subject	Hours per week			Scheme of Examination				
		L	T	P	Theory (Hrs)	Credits			
						Theory	IA	Oral	Total
MCSE 3.1	Advanced Compiler Design	4	-		3	4	2	-	6
MCSE 3.2	Elective-V	4	-		3	4	2	-	6
MCSE 3.3	Project	---	---	14	---	---	4	4	8
MCSE 3.4	Seminar	---	---	6	---	---	2	2	4
	Total	8	-	20		8	10	6	24

Semester-IV									
Subject Code	Subject	Hours per week			Scheme of Examination				
		L	T	P	Theory (Hrs)	Credits			
						Theory	IA	Oral*	Total
MCSE 4.1	Dissertation	--	----	28	--	--	8	12	20
	Total			28		---	8	12	20

Grand Total of all four semesters	48	--	64		48	42	26	116
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All theory papers of 100 marks

Note:- * Examination panel shall be constituted with the Head of Computer Engineering Department or his nominee (if Head is the guide or if the Head cannot be present) as a chairman, , the guide and another examiner from outside the University , wherever possible.

List of Elective Subjects:

<p>ELECTIVE –I (MCSE 1.4)</p> <ol style="list-style-type: none"> 1. Machine Learning 2. Stochastic modeling and Analysis 3. Advanced Digital Signal Processing 4. Software Testing and Quality Assurance 5. Graph Theory <p>ELECTIVE-III (MCSE 2.4)</p> <ol style="list-style-type: none"> 1. Pattern Recognition 2. Advanced Genetic Algorithm 3. Web Technology and E-commerce 4. Embedded System 5. Functional Programming <p>ELECTIVE –V (MCSE 3.2)</p> <ol style="list-style-type: none"> 1. Fuzzy Logic Design 2. Cryptography and Network Security 3. Object Oriented Modeling and Design 4. Robotics 5. Multi Core Architecture 	<p>ELECTIVE-II (MCSE 1.5)</p> <ol style="list-style-type: none"> 1. Advanced Computer Graphics 2. Storage Area Network 3.Parallel Computing 4. Algorithmic approach to Bio-informatics 5. Data Mining <p>ELECTIVE –IV (MCSE 2.5)</p> <ol style="list-style-type: none"> 1. Image Processing 2. Mobile Computing 3. Grid and Cluster Computing 4.Real Time System 5. Information Storage and Retrieval
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