

w.e.f 2009 -10

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
I YEAR I SEMESTER M.Tech (Computer Science)

COURSE STRUCTURE

SL.NO	SUBJECT	L	P	C	INT	EXT	TOTAL
MCS1.1	Data Structures and Algorithm Analysis	4	-	8	40	60	100
MCS1.2	Mathematical Foundations of Computer Science	4	-	8	40	60	100
MCS1.3	Computer Organization and Architecture	4	-	8	40	60	100
MCS1.4	Database Management Systems	4	-	8	40	60	100
MCS1.5	Operating Systems	4	-	8	40	60	100
MCS1.6	Object Oriented Programming	4	-	8	40	60	100
MCS1.7	Data structures lab	-	4	4	40	60	100
MCS1.8	Systems Lab- 1(Covering the experiments Operating systems, Database Management systems)	-	4	4	40	60	100

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
M.Tech (Computer Science & Engineering) II SEMESTER

COURSE STRUCTURE AND SYLLABUS

S.No.	SUBJECT	L	P	C	INT	EXT	TOTAL
MCSE2.1	DATA WAREHOUSING AND DATA MINING	4	-	8	40	60	100
MCSE2.2	COMPUTER NETWORKS	4	-	8	40	60	100
MCSE2.3	OBJECT ORIENTED SOFTWARE ENGINEERING	4	-	8	40	60	100
MCSE2.4	WEB TECHNOLOGIES	4	-	8	40	60	100
MCSE2.5	Elective 1	4	-	8	40	60	100
	MCSE2.5.1 MOBILE COMPUTING MCSE 2.5.2 BIO-INFORMATICS MCSE 2.5.3 COMPILER DESIGN MCSE 2.5.4 HUMAN COMPUTER INTERACTION						
MCSE 2.6	Elective 2	4	-	8	40	60	100
	MCSE 2.6.1 ARTIFICIAL INTELLIGENCE AND SOFT COMPUTING MCSE 2.6.2 SECURED DATABASE APPLICATIONS DEVELOPMENT MCSE 2.6.3 MIDDLEWARE AND ENTERPRISE INTEGRATION TECHNOLOGIES MCSE 2.6.4 IMAGE PROCESSING AND PATTERN RECOGNITION						
MCSE 2.7	Application Development Lab(covering the experiments : Mining tools, UML, Rational Tools)		4	4	40	60	100
MCSE 2.8	Web Technologies Lab		4	4	40	60	100

Dr E. V. Prasad, Chairman, B.O.S – CSE.

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING
Specialization: COMPUTER SCIENCE & ENGINEERING
COURSE STRUCTURE

I SEMESTER

S.NO	SUBJECT	L	P	C
1	ADVANCED DATA STRUCTURES AND ALGORITHM ANALYSIS	4	-	3
2	MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE	4	-	3
3	COMPUTER ORGANIZATION AND ARCHITECTURE	4	-	3
4	DATABASE MANAGEMENT SYSTEMS	4	-	3
5	OPERATING SYSTEMS	4	-	3
6	SOFTWARE ENGINEERING	4	-	3
7	CSE LAB I	-	3	2
	TOTAL			20

II SEMESTER

1	INFORMATION SECURITY	4	-	3
2	COMPUTER NETWORKS	4	-	3
3	DATA WAREHOUSING AND DATA MINING	4	-	3
4	ELECTIVE 1 MOBILE COMPUTING COMPILER DESIGN HUMAN COMPUTER INTERACTION	4	-	3
5	ELECTIVE 2 IMAGE PROCESSING SOFT COMPUTING OBJECT ORIENTED ANALYSIS AND DESIGN	4	-	3
6	ELECTIVE 3 ADVANCED UNIX PROGRAMMING BIO INFORMATICS CLOUD COMPUTING	4	-	3
7	CSE LAB2		3	2
	TOTAL			20

III SEMESTER

S.NO.	SUBJECT	L	P	C
1	COMPREHENSIVE VIVA	—	—	2
2	SEMINAR-I	—	—	2
3	PROJECT WORK PART - I	—	—	16
	TOTAL			20

IV SEMESTER

S.NO.	SUBJECT	L	P	C
1	SEMINAR-II	—	—	2
2	PROJECT WORK PART - II	—	—	18
	TOTAL			20

I Semester

w.e.f. 2016-17

S.No.	SUBJECT	L	P	C
1	ADVANCED DATA STRUCTURES AND ALGORITHM ANALYSIS	4	--	3
2	MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE	4	--	3
3	COMPUTER ORGANIZATION AND ARCHITECTURE	4	--	3
4	DATABASE MANAGEMENT SYSTEMS	4	--	3
5	ADVANCED OPERATING SYSTEMS	4	--	3
6	DATA WAREHOUSING AND DATA MINING	4	--	3
7	CSE LAB 1	--	3	2
Total Credits				20

II Semester

S.No.	SUBJECT	L	P	C
1	CYBER SECURITY	4	--	3
2	COMPUTER NETWORKS	4	--	3
3	BIG DATA ANALYTICS	4	--	3
4	ADVANCED UNIX PROGRAMMING	4	--	3
5	Elective – 1 1. SOFTWARE ENGINEERING 2. ARTIFICIAL INTELLIGENCE 3. COMPILER DESIGN 4. MACHINE LEARNING	4	--	3
6	Elective – 2 1. IMAGE PROCESSING 2. PARALLEL ALGORITHMS 3. CLOUD COMPUTING 4. MOBILE COMPUTING	4	--	3
7	CSE LAB 2	--	3	2
Total Credits				20

III Semester

S. No.	Subject	L	P	Credits
1	Comprehensive Viva-Voce	--	--	2
2	Seminar – I	--	--	2
3	Project Work Part - I	--	--	16
Total Credits				20

IV Semester

S. No.	Subject	L	P	Credits
1	Seminar – II	--	--	2
2	Project Work Part - II	--	--	18
Total Credits				20