Dr. M.G.R.
EDUCATIONAL AND RESEARCH INSTITUTE
UNIVERSITY
M.Tech (Computer Systems and Networking)
PART TIME
(From 2010 Onwards)

Semester – I
Theory

Course Code	Course Title	L	T	P	C
MCS102/ MCS651	Computer Architecture	3	1	0	4
MCS103/ MCS653	Operating Systems	3	0	0	3
MCS/104/ MCS655	Data Structures and Algorithms	3	0	0	3

Subtotal: 10

Semester – II
Theory

Course Code	Course Title	L	T	P	C
MMA105/ MMA615	Graph and Queuing Theory	3	1	0	4
MCS121/ MCS611	Data Communication	3	1	0	4
MCSE607/ MCSE01/ MCSE05/ MCSE07	Elective-I	3	0(1)	0	3(1)

Practical

MCS691	Computer Lab 1 (OS and Data Structures Lab)	0	0	6	2

Subtotal : 13(1)

Semester – III Theory

Course Code	Course Title	L	T	P	C
MCS122/ MCS612	Computer Network Management	3	1	0	4
MCS123/ MCS614	Unix Internals	3	0	1	4
MCSE16/ MCSE 18/ MCSE20/ MCSE 22	Elective-II	3	0(1)	0	3(1)

Subtotal : 11(1)

Semester – IV Theory

Course Code	Course Title	L	T	P	C
MMG131/ MMG632	Engineering Management	3	0	0	3
MCSE04/ MCSE 08 MCSE24/ MCSE 26	Elective III	3	0(1)	0	3(1)
MCSE09/ MCSE23 MCSE27/ MCSE29	Elective IV	3	0(1)	0	3(1)
Practical					
MCS110 / MCS692	Computer lab - II (System S/W& DBMS Lab)	0	0	6	2
MCS109 / MCS694	Term Paper/Seminar	0	0	6	2
MCS196 / MCS696	Industrial Training/ Interdepartmental Project	0	0	3	1

Subtotal : 14(2)

Semester – V Theory

Course Code OLD/ NEW	Course Titles	L	T	P	C
MCSE01/ MCSE19	Distributed Computing	3	1	0	4
MCSE13	Network Security	3	0	0	3
MCSE11/ MCSE15 MCSE25/ MCSE31 MCSE33/ MCSE35	Elective V	3	0(1)	0	3(1)

Practical:

MCS291/ MCS791	Project Work Phase-1	0	0	12	6

Subtotal : 16(1)

Semester – VI Practical:

MCS204/ MCS792	Project work Phase -II	0	0	24	15

Subtotal : 15

Total credits to be earned for the award of the Degree: 75

LIST OF ELECTIVES

I ELECTIVE

MCSE15/MCSE01 Object Oriented Analysis and Design	3	0	0	3
MCS107/MCS607 Microprocessor Based System Design	3	0	0	3
MCSE03/MCSE05 Agent Based Systems	3	0	0	3
MCSE05/MCSE07 Neural Networks	3	0	0	3

II ELECTIVE

MCSE27/MCSE18 TCP/IP Design and Implementation	3	1	0	4
MCSE28/MCSE20 Communication Protocol Engineering	3	0	0	3
MCSE30/MCSE22 Reliable Computing	3	0	0	3
MCSE16/MCSE16 Embedded Systems	3	0	0	3

III ELECTIVE

MCSE34/MCSE24 Real Time Computing Systems	3	0	0	3
MCSE02/MCSE04 Soft Computing	3	0	0	3
MCSE06/MCSE08 Internet Programming	3	1	0	4
MCSE31/MCSE26 Multimedia Networking	3	0	0	3

IV ELECTIVE

MCSE33/MCSE27 Performance Evaluation of Computer Systems and Networks	3	0	0	3
MCSE09/MCSE09 Mobile Communication	3	1	0	4
MCSE29/MCSE29 Fiber Optic Communication	3	0	0	3
MCSE20/MCSE23 Client Server Computing	3	0	0	3

V ELECTIVE

MCSE26/MCSE33 Advanced Computer Networks	3	0	0	3
MCSE32/MCSE31 Satellite Communication	3	0	0	3
MCSE10/MCSE11 Advanced Web Technology	3	1	0	4
MCSE14/MCSE15 High Speed Networks	3	1	0	4
MCSE35 Special Elective	3	0	0	3

For syllabus refer M.Tech (CSN)(Full Time of regulation 2010)