

AFFILIATED INSTITUTIONS

ANNA UNIVERSITY, CHENNAI – 600 025

REGULATIONS - 2013

**M.E. COMPUTER SCIENCE AND ENGINEERING
(With Specialisation in Networks)**

I TO VI SEMESTERS CURRICULUM AND SYLLABUS (PART TIME)

SEMESTER – I

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	MA7155	Applied Probability and Statistics	3	1	0	4
2.	CP7101	Design and Management of Computer Networks	3	0	0	3
3.	CP7102	Advanced Data Structures and Algorithms	3	0	0	3
PRACTICAL						
4.	NE7111	Advanced Data Structures Laboratory	0	0	4	2
TOTAL			9	1	4	12

SEMESTER – II

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	CP7201	Theoretical Foundations of Computer Science	3	1	0	4
2.	NE7201	Network Programming	3	0	0	3
3.	NE7202	Network and Information Security	3	0	0	3
PRACTICAL						
4.	NE7212	Case Study - Network Protocol and Security Implementation (Team Work)	0	0	2	1
TOTAL			9	1	2	11

SEMESTER – III

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	CP7103	Multicore Architectures	3	0	0	3
2.		Elective I	3	0	0	3
3.		Elective II	3	0	0	3
PRACTICAL						
4.	NE7112	Case Study – Network Design (Team Work)	0	0	2	1
TOTAL			9	0	2	10

SEMESTER – IV

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	CP7202	Advanced Databases	3	0	0	3
2.		Elective III	3	0	0	3
3.		Elective IV	3	0	0	3
PRACTICAL						
4.	NE7211	Advanced Database Laboratory	0	0	4	2
TOTAL			9	0	4	11

SEMESTER V

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	NE7301	Wireless Networks	3	1	0	4
2.		Elective V	3	0	0	3
3.		Elective VI	3	0	0	3
PRACTICAL						
4.	NE7311	Project Work (Phase I - Network Based)	0	0	12	6
TOTAL			9	1	12	16

SEMESTER VI

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.		Elective VII	3	0	0	3
PRACTICAL						
2.	NE7411	Project Work (Phase II - Network Based)	0	0	24	12
TOTAL			3	0	24	15

TOTAL NO. OF CREDITS: 75

LIST OF ELECTIVE COURSES
ELECTIVE I

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	CP7001	Performance Evaluation of Computer Systems	3	0	0	3
2.	CP7003	Data Analysis and Business Intelligence	3	0	0	3
3.	CP7004	Image Processing and Analysis	3	0	0	3
4.	CP7008	Speech Processing and Synthesis	3	0	0	3
5.	CP7006	Parallel Programming Paradigms	3	0	0	3

ELECTIVE II

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
6.	MU7102	Multimedia Communication Networks	3	0	0	3
7.	NE7001	Sensing Techniques and Sensors	3	0	0	3
8.	NE7002	Mobile and Pervasive Computing	3	0	0	3
9.	NE7003	Web Engineering	3	0	0	3
10.	NE7004	Network Protocols	3	0	0	3

ELECTIVE III

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
11.	CP7010	Concurrency Models	3	0	0	3
12.	CP7011	Real Time Systems	3	0	0	3
13.	CP7012	Computer Vision	3	0	0	3
14.	CP7014	Software Architectures	3	0	0	3
15.	CP7007	Software Requirements Engineering	3	0	0	3

ELECTIVE IV

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
16.	NE7005	Protocols and Architecture for Wireless Sensor Networks	3	0	0	3
17.	NE7006	Simulation of Computer Systems and Networks	3	0	0	3
18.	NE7007	Network Management	3	0	0	3
19.	IF7014	4G Technologies	3	0	0	3
20.	NE7008	High Speed Switching Architecture	3	0	0	3

ELECTIVE V

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
21.	CP7019	Managing Big data	3	0	0	3
22.	CP7020	Bio-Inspired Computing	3	0	0	3
23.	CP7021	Medical Image Processing	3	0	0	3
24.	CP7022	Software Design	3	0	0	3
25.	CP7009	Machine Learning Techniques	3	0	0	3

ELECTIVE VI

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
26.	NE7009	Networks Performance Analysis	3	0	0	3
27.	NE7010	Next Generation Networks	3	0	0	3
28.	NE7011	Mobile Application Development	3	0	0	3
29.	CU7201	Wireless Communication Networks	3	0	0	3
30.	NE7012	Social Networks Analysis	3	0	0	3

ELECTIVE VII

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
31.	CP7027	Multiobjective Optimization Techniques	3	0	0	3
32.	CP7028	Enterprise Application Integration	3	0	0	3
33.	CP7029	Information Storage Management	3	0	0	3
34.	CP7030	Robotics	3	0	0	3
35.	CP7031	Compiler Optimization Techniques	3	0	0	3