

**AFFILIATED INSTITUTIONS**  
**ANNA UNIVERSITY, CHENNAI**  
**REGULATIONS – 2013**  
**M.E. COMPUTER SCIENCE AND ENGINEERING**  
**I TO VI SEMESTERS CURRICULUM (PART - TIME)**

**SEMESTER I**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
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
<b>PRACTICAL</b>						
4.	CP7111	Advanced Data Structures Laboratory	0	0	4	2
5.	CP7112	Case Study - Network Design (Team Work)	0	0	2	1
<b>TOTAL</b>			<b>9</b>	<b>1</b>	<b>6</b>	<b>13</b>

**SEMESTER II**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	CP7201	Theoretical Foundations of Computer Science	3	1	0	4
2.	CP7202	Advanced Databases	3	0	0	3
4.	CP7204	Advanced Operating Systems	3	0	0	3
<b>PRACTICAL</b>						
7.	CP7211	Advanced Databases Laboratory	0	0	4	2
8.	CP7212	Case Study - Operating Systems Design (Team Work)	0	0	2	1
<b>TOTAL</b>			<b>9</b>	<b>1</b>	<b>6</b>	<b>13</b>

**SEMESTER III**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	CP7103	Multicore Architectures	3	0	0	3
2.	E1	Elective I	3	0	0	3
3.	E2	Elective II	3	0	0	3
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>0</b>	<b>9</b>

**SEMESTER IV**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	CP7203	Principles of Programming Languages	3	0	0	3
2.	E3	Elective III	3	0	0	3
3.	E4	Elective IV	3	0	0	3
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>0</b>	<b>9</b>

**SEMESTER V**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	CP7301	Software Process and Project Management	3	1	0	4
2.	E5	Elective V	3	0	0	3
3.	E6	Elective VI	3	0	0	3
<b>PRACTICAL</b>						
4.	CP7311	Project Work (Phase I)	0	0	12	6
<b>TOTAL</b>			<b>9</b>	<b>1</b>	<b>12</b>	<b>16</b>

**SEMESTER VI**

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	E7	Elective VII	3	0	0	3
<b>PRACTICAL</b>						
2.	CP7411	Project Work ( Phase II)	0	0	24	12
<b>TOTAL</b>			<b>3</b>	<b>0</b>	<b>24</b>	<b>15</b>

**TOTAL NO.OF CREDITS:75**

**LIST OF ELECTIVES**  
**ELECTIVE I**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
1.	SE7103	Formal models of Software Systems	3	0	0	3
2.	CP7001	Performance Evaluation of Computer Systems	3	0	0	3
3.	CP7002	Probabilistic Reasoning Systems	3	0	0	3
4.	CP7003	Data Analysis and Business Intelligence	3	0	0	3
5.	CP7004	Image Processing and Analysis	3	0	0	3
6.	NE7001	Sensing Techniques and Sensors	3	0	0	3

**ELECTIVE II**

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	CP7005	Randomized Algorithms	3	0	0	3
2.	NE7002	Mobile and Pervasive Computing	3	0	0	3
3.	CP7006	Parallel Programming Paradigms	3	0	0	3
4.	CP7007	Software Requirements Engineering	3	0	0	3
5.	CP7008	Speech Processing and Synthesis	3	0	0	3
6.	CP7009	Machine Learning Techniques	3	0	0	3

**ELECTIVE III**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
1.	CP7010	Concurrency Models	3	0	0	3
2.	CP7011	Real Time Systems	3	0	0	3
3.	CP7012	Computer Vision	3	0	0	3
4.	NE7202	Network and Information Security	3	0	0	3
5.	CP7013	Design and Analysis of Parallel Algorithms	3	0	0	3
6.	CP7014	Software Architectures	3	0	0	3

**ELECTIVE IV**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
1.	CP7015	Model Checking and Program Verification	3	0	0	3
2.	CP7016	Embedded Software Development	3	0	0	3
3.	IF7202	Cloud Computing	3	0	0	3
4.	CP7017	Data Visualization Techniques	3	0	0	3
5.	NE7005	Protocols and Architecture for Wireless Sensor Networks	3	0	0	3
6.	CP7018	Language Technologies	3	0	0	3

**ELECTIVE V**

<b>SL. NO</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1.	NE7012	Social Networks Analysis	3	0	0	3
2.	CP7019	Managing Big Data	3	0	0	3
3.	NE7011	Mobile Application Development	3	0	0	3
4.	CP7020	Bio - inspired Computing	3	0	0	3
5.	CP7021	Medical Image Processing	3	0	0	3
6.	CP7022	Software Design	3	0	0	3

**ELECTIVE VI**

<b>SL. NO</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1.	CP7023	Reconfigurable Computing	3	0	0	3
2.	IF7013	Energy Aware Computing	3	0	0	3
3.	CP7024	Information Retrieval Techniques	3	0	0	3
4.	CP7025	Data Mining Techniques	3	0	0	3
5.	IF7002	Bio Informatics	3	0	0	3
6.	CP7026	Software Quality Assurance	3	0	0	3

**ELECTIVE VII**

<b>SL. NO</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1.	CP7027	Multi Objective Optimization Techniques	3	0	0	3
2.	CP7028	Enterprise Application Integration	3	0	0	3
3.	CP7029	Information Storage Management	3	0	0	3
5.	CP7030	Robotics	3	0	0	3
6.	CP7031	Compiler Optimization Techniques	3	0	0	3