

**AFFILIATED INSTITUTIONS**  
**ANNA UNIVERSITY, CHENNAI**  
**REGULATIONS - 2013**  
**M.E. SOFTWARE 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.	SE7102	Advances in Software Engineering	3	0	0	3
3.	CP7102	Advanced Data Structure and Algorithms	3	0	0	3
<b>PRACTICAL</b>						
4.	SE7111	Software Requirements and Design Laboratory	0	0	4	2
5.	SE7112	Advanced Data Structures Laboratory	0	0	4	2
<b>TOTAL</b>			<b>9</b>	<b>1</b>	<b>8</b>	<b>14</b>

**SEMESTER II**

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	SE7201	Software Project Planning and Management	3	0	0	3
2.	SE7202	Software Testing	3	0	0	3
3.	SE7203	Software Metrics and Quality Assurance	3	0	0	3
<b>PRACTICAL</b>						
4.	SE7211	Software Testing Laboratory	0	0	4	2
5.	SE7212	Socially Relevant Mini Project	0	0	4	2
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>8</b>	<b>13</b>

**SEMESTER III**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	SE7101	Software Risk Management and Maintenance	3	0	0	3
2.	SE7103	Formal Models of Software Systems	3	0	0	3
3.	E1	Elective I	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.	IF7203	Data Warehousing and Data Mining	3	0	0	3
2.	SE7204	Big Data Analytics	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 V**

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	SE7301	Software Design Patterns	3	0	0	3
2.	E3	Elective III	3	0	0	3
3.	E4	Elective IV	3	0	0	3
<b>PRACTICAL</b>						
4.	SE7311	Project Work (Phase I)	0	0	12	6
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>12</b>	<b>15</b>

**SEMESTER VI**

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	E5	Elective V	3	0	0	3
<b>PRACTICAL</b>						
2.	SE7411	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.	IF7013	Energy Aware Computing	3	0	0	3
2.	IF7202	Cloud Computing	3	0	0	3
3.	NE7002	Mobile and Pervasive Computing	3	0	0	3
4.	SE7001	Distributed System	3	0	0	3
5.	CP7028	Enterprise Application Integration	3	0	0	3

### ELECTIVE II

6.	SE7010	Software Architecture	3	0	0	3
7.	MU7011	Video Compression	3	0	0	3
7.	SE7002	Pattern Classification and Analysis	3	0	0	3
8.	CP7012	Computer Vision	3	0	0	3
9.	MU7008	User Interface Design	3	0	0	3

### ELECTIVE III

10.	IF7301	Soft Computing	3	0	0	3
11.	SE7003	Machine Learning	3	0	0	3
12.	CP7024	Information Retrieval Techniques	3	0	0	3
13.	SE7004	Software Agents	3	0	0	3

### ELECTIVE IV

14.	MP7001	XML and Web Services	3	0	0	3
15.	SE7005	Web Engineering and Management	3	0	0	3
16.	NE7011	Mobile Application Development	3	0	0	3
17.	NE7012	Social Network Analysis	3	0	0	3

### ELECTIVE V

18.	SE7006	Software Reliability	3	0	0	3
19.	SE7007	Software Documentation	3	0	0	3
20.	SE7008	Software Refactoring	3	0	0	3
21.	CP7015	Model Checking and Program Verification	3	0	0	3
22.	CP7006	Parallel Programming Paradigms	3	0	0	3
23.	SE7009	Software Process Models	3	0	0	3