

**AFFILIATED INSTITUTIONS**  
**ANNA UNIVERSITY, CHENNAI**  
**REGULATIONS – 2013**  
**M.E. EMBEDDED SYSTEM TECHNOLOGIES**  
**I TO IV SEMESTERS (FULL TIME) CURRICULUM AND SYLLABUS**  
**SEMESTER I**

SI.No	CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1	MA7163	Applied Mathematics for Electrical Engineers	3	1	0	4
2	ET7101	Advanced Digital System Design	3	0	0	3
3	ET7102	Microcontroller Based System Design	3	0	0	3
4	ET7103	Real Time Systems	3	0	0	3
5	ET7104	Design of Embedded Systems	3	0	0	3
6		Elective - I	3	0	0	3
<b>PRACTICAL</b>						
7	ET7111	Embedded System Laboratory I	0	0	3	2
<b>TOTAL</b>			<b>18</b>	<b>1</b>	<b>3</b>	<b>21</b>

**SEMESTER II**

SI.No	CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1	ET7201	VLSI Architecture and Design Methodologies	3	0	0	3
2	ET7202	Embedded Networking	3	1	0	4
3	ET7203	Wireless and Mobile Communication	3	0	0	3
4	ET7204	Software for Embedded Systems	3	0	0	3
5		Elective - II	3	0	0	3
6		Elective - III	3	0	0	3
<b>PRACTICAL</b>						
7	ET7211	Embedded System Laboratory II	0	0	3	2
<b>TOTAL</b>			<b>18</b>	<b>1</b>	<b>3</b>	<b>21</b>

**SEMESTER III**

SI.No	CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1		Elective – IV	3	0	0	3
2		Elective – V	3	0	0	3
3		Elective – VI	3	0	0	3
<b>PRACTICAL</b>						
4	ET7311	Project Work (Phase I)	0	0	12	6
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>12</b>	<b>15</b>

SEMESTER IV						
Sl.No	CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1	ET7411	Project Work (Phase II)	0	0	24	12
<b>TOTAL</b>			<b>0</b>	<b>0</b>	<b>24</b>	<b>12</b>

**TOTAL NUMBER OF CREDITS = 69**

**ELECTIVES FOR M.E. EMBEDDED SYSTEM TECHNOLOGIES**

ELECTIVE I						
Sl. No	CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1	ET7001	Digital Instrumentation	3	0	0	3
2	ET7002	Real Time Operating Systems	3	0	0	3
3	ET7016	Parallel Processing Architecture	3	0	0	3

**ELECTIVE II & III**

4	ET7003	Design of Embedded Control Systems	3	0	0	3
5	ET7004	Programming with VHDL	3	0	0	3
6	ET7005	Adhoc Networks	3	0	0	3
7	ET7006	Advanced Digital Signal Processing	3	0	0	3
8	CL7204	Soft Computing Techniques	3	0	0	3
9	ET7007	RISC Processor Architecture and Programming	3	0	0	3

**ELECTIVE IV ,V & VI**

10	ET7008	Advanced Embedded Systems	3	0	0	3
11	ET7009	Pervasive Devices and Technology	3	0	0	3
12	ET7010	Cryptography and Network Security	3	0	0	3
13	ET7011	Smart Meter and Smart Grid Communication	3	0	0	3
14	ET7012	Computer in Networking and Digital Control	3	0	0	3
15	ET7013	Distributed Embedded Computing	3	0	0	3
16	CL7004	Robotics and Control	3	0	0	3
17	ET7014	Application of MEMS Technology	3	0	0	3
18	ET7015	Digital Image Processing and Applications	3	0	0	3



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