

**AFFILIATED INSTITUTIONS
ANNA UNIVERSITY, CHENNAI
REGULATION – 2013
M.E. APPLIED ELECTRONICS
I TO VI SEMESTERS CURRICULUM (PART - TIME)**

SEMESTER I

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	MA7157	Applied Mathematics for Electronics Engineers	3	1	0	4
3	AP7102	Advanced Digital Logic System Design	3	0	0	3
4	AP7103	Advanced Microprocessor and Microcontroller	3	0	0	3
PRACTICAL						
1	AP7111	Electronics System Design Laboratory I	0	0	3	2
TOTAL			9	1	0	12

SEMESTER II

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	AP7201	Analysis and Design of Analog Integrated Circuits	3	0	0	3
2	AP7202	ASIC and FPGA Design	3	0	0	3
3	AP7203	Embedded Systems	3	0	0	3
PRACTICAL						
1	AP7211	Electronics System Design Laboratory II	0	0	3	2
TOTAL			9	0	3	11

SEMESTER III

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	AP7101	Advanced Digital Signal Processing	3	1	0	4
2.	E1	Elective I	3	0	0	3
3.	E2	Elective II	3	0	0	3
TOTAL			9	1	0	10

SEMESTER IV

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	CP7103	Multicore Architectures	3	0	0	3
2.	E3	Elective III	3	0	0	3
3.	E4	Elective IV	3	0	0	3
TOTAL			9	0	0	9

SEMESTER V

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	AP7301	Electromagnetic Interference and Compatibility	3	0	0	3
2	E5	Elective V	3	0	0	3
3	E6	Elective VI	3	0	0	3
PRACTICAL						
4	AP7311	Project Work (Phase I)	0	0	12	6
TOTAL			9	0	12	15

SEMESTER VI

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
PRACTICAL						
1	AP7411	Project Work (Phase II)	0	0	24	12
TOTAL			0	0	24	12

TOTAL NO. OF CREDITS : 69

LIST OF ELECTIVES

ELECTIVE I

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	DS7201	Advanced Digital Image Processing	3	0	0	3
2	CU7006	Wavelet Transforms and Applications	3	0	0	3
3	IF7301	Soft Computing	3	0	0	3
4	AP7001	Computer Architecture and Parallel Processing	3	0	0	3
5	AP7002	Three Dimensional Network on Chip	3	0	0	3

ELECTIVE II

1	VL7201	CAD for VLSI Circuits	3	0	0	3
2	AP7003	Digital Control Engineering	3	0	0	3
3	AP7004	Hardware - Software Co Design	3	0	0	3
4	AP7005	Quantum Electronics	3	0	0	3
5	AP7006	Sensors and Signal Conditioning	3	0	0	3

ELECTIVE III

1	VL7102	VLSI Design Techniques	3	0	0	3
2	VL7202	Low Power VLSI Design	3	0	0	3
3	AP7007	Fiber Optic Sensors	3	0	0	3
4	AP7008	DSP Integrated Circuits	3	0	0	3
5	AP7009	RF System Design	3	0	0	3
6	VL7001	Analog and Mixed Mode VLSI Design	3	0	0	3

ELECTIVE IV

1	VL7006	Analog VLSI Design	3	0	0	3
2	VL7005	Physical Design of VLSI Circuits	3	0	0	3
3	VL7101	VLSI Signal Processing	3	0	0	3
4	AP7010	Data Converters	3	0	0	3
5	VL7103	Solid State Device Modeling and Simulation	3	0	0	3
6	NC7101	High Performance Networks	3	0	0	3

ELECTIVE V

1	VL7301	Testing of VLSI Circuits	3	0	0	3
2	VL7013	VLSI for Wireless Communication	3	0	0	3
3	AP7011	Photonics	3	0	0	3
4	AP7012	Nano Electronics	3	0	0	3
5	AP7013	Pattern Recognition	3	0	0	3
6	AP7014	Optical Computing	3	0	0	3

ELECTIVE VI

1	CP7030	Robotics	3	0	0	3
2	AP7015	Optical Imaging Techniques	3	0	0	3
3	CU7002	MEMS and NEMS	3	0	0	3
4	DS7301	Speech and Audio Signal Processing	3	0	0	3
5	AP7016	System on Chip Design	3	0	0	3
6	CP7023	Reconfigurable Computing	3	0	0	3
7	NC7202	Wireless Adhoc and Sensor Networks	3	0	0	3