

ANNA UNIVERSITY, CHENNAI
AFFILIATED INSTITUTIONS
REGULATIONS – 2017
CHOICE BASED CREDIT SYSTEM
M.E. EMBEDDED SYSTEM TECHNOLOGIES
I TO VI SEMESTERS CURRICULUM (PART TIME)

SEMESTER I

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA5155	Applied Mathematics for Electrical Engineers	FC	4	4	0	0	4
2.	ET5101	Advanced Digital Principles and Design	PC	5	3	2	0	4
3.	ET5151	Microcontroller Based System Design	PC	3	3	0	0	3
TOTAL				12	10	2	0	11

SEMESTER II

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	ET5251	Real Time Operating Systems	PC	3	3	0	0	3
2.	ET5201	Pervasive Devices and Technology	PC	3	3	0	0	3
3.	ET5202	RISC Processor Architecture and Programming	PC	5	3	2	0	4
TOTAL				11	9	2	0	10

SEMESTER III

1.	ET5152	Design of Embedded Systems	PC	3	3	0	0	3
2.	ET5191	Software for Embedded Systems	PC	3	3	0	0	3
3.		Professional Elective I	PE	3	3	0	0	3
PRACTICALS								
4.	ET5111	Embedded System Lab I	PC	4	0	0	4	2
TOTAL				13	9	0	4	11

SEMESTER IV

1.	ET5203	Internet of Things	PC	3	3	0	0	3
2.		Professional Elective II	PE	3	3	0	0	3
3.		Professional Elective III	PE	3	3	0	0	3
PRACTICALS								
4.	ET5211	Embedded System Lab II	PC	4	0	0	4	2
5.	ET5312	Technical Seminar	EEC	2	0	0	2	1
TOTAL				15	9	0	6	12

SEMESTER V

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.		Professional Elective IV	PE	3	3	0	0	3
2.		Professional Elective V	PE	3	3	0	0	3
3.		Professional Elective VI	PE	3	3	0	0	3
PRACTICALS								
4.	ET5311	Project Work Phase I	EEC	12	0	0	12	6
TOTAL				21	9	0	12	15

SEMESTER VI

SI.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
PRACTICALS								
1.	ET5411	Project Work Phase II	EEC	24	0	0	24	12
TOTAL				24	0	0	24	12

TOTAL NO. OF CREDITS : 71

PROFESSIONAL ELECTIVES (PE)*
SEMESTER I
ELECTIVE I

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	ET5091	MEMS Technology	PE	3	3	0	0	3
2.	ET5001	Advanced Computer Architecture and Parallel Processing	PE	3	3	0	0	3
3.	IN5092	Digital Instrumentation	PE	3	3	0	0	3

SEMESTER II
ELECTIVE II AND III

1.	ET5002	Embedded Linux	PE	3	3	0	0	3
2.	ET5071	Advanced Digital Signal Processing	PE	3	3	0	0	3
3.	ET5003	Python Programming	PE	3	3	0	0	3
4.	ET5004	Embedded Product Development	PE	3	3	0	0	3
5.	ET5005	Automotive Embedded System	PE	3	3	0	0	3
6.	ET5006	Reconfigurable Processor and SoC Design	PE	3	3	0	0	3

SEMESTER III
ELECTIVE IV, V AND VI

1.	ET5092	Digital Image Processing	PE	3	3	0	0	3
2.	ET5007	Embedded Networking and Automation of Electrical System	PE	3	3	0	0	3
3.	ET5008	Smart System Design	PE	3	3	0	0	3
4.	ET5009	Entrepreneurship Development	PE	3	3	0	0	3
5.	ET5010	Nano Electronics	PE	3	3	0	0	3
6.	ET5011	Distributed Embedded Computing	PE	3	3	0	0	3
7.	PS5091	Smart Grid	PE	3	3	0	0	3
8.	PS5073	Electric Vehicles and Power Management	PE	3	3	0	0	3
9.	ET5012	Soft Computing and Optimization Techniques	PE	3	3	0	0	3
10.	ET5013	Wireless And Mobile Communication	PE	3	3	0	0	3
11.	ET5014	Cryptography And Network Security	PE	3	3	0	0	3
12.	IN5079	Robotics and Control	PE	3	3	0	0	3

*Professional Electives are grouped according to elective number as was done previously.