



SAVEETHA ENGINEERING COLLEGE

AUTONOMOUS


Affiliated to Anna University | Approved by AICTE

REGULATIONS 2019

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

M.E - EMBEDDED SYSTEM TECHNOLOGIES
CURRICULUM and SYLLABUS

S.No.	Category	Course Code	Course Title	Contact Hours per Week			Credits	Prerequisite
				L	T	P		
1	FC	19MMA06	Applied Mathematics for Electrical Engineers	4	0	0	4	-
2	PC	19MET01	Advanced Digital Principles and Design	3	2	0	4	-
3	PC	19MET02	Microcontroller Based System Design	3	0	0	3	-
4	PC	19MET03	Design of Embedded Systems	3	0	0	3	-
5	PC	19MET04	Software for Embedded Systems	3	0	0	3	-
6	PC	19MET05	Embedded System Laboratory I	0	0	4	2	-
7	PC	19MET06	Real Time Operating Systems	3	0	0	3	-
8	PC	19MET07	Pervasive Devices and Technology	3	0	0	3	-
9	PC	19MET08	RISC Processor Architecture and Programming	3	2	0	4	-
10	PC	19MCS09	Internet of Things	3	0	0	3	-
11	PC	19MET10	Embedded System Laboratory II	0	0	4	2	-
12	EEC	19MET32	Project Work Phase I	0	0	12	6	-
13	EEC	19MET33	Technical Seminar	0	0	2	1	-
14	EEC	19MET34	Project Work Phase II	0	0	24	12	-
15	PE	19MET11	MEMS Technology	3	0	0	3	-
16	PE	19MET12	Advanced Computer Architecture and Parallel Proc	3	0	0	3	-
17	PE	19MET13	Digital Instrumentation	3	0	0	3	-
18	PE	19MET14	Embedded Linux	3	0	0	3	-
19	PE	19MET15	Advanced Digital Signal Processing	3	0	0	3	-
20	PE	19MET16	Python Programming	3	0	0	3	-
21	PE	19MET17	Embedded Product Development	3	0	0	3	-
22	PE	19MET18	Automotive Embedded System	3	0	0	3	-
23	PE	19MET19	Reconfigurable Processor and SoC Design	3	0	0	3	-
24	PE	19MET20	Digital Image Processing	3	0	0	3	-
25	PE	19MET21	Embedded Networking and Automation of Electrical	3	0	0	3	-
26	PE	19MET22	Smart System Design	3	0	0	3	-
27	PE	19MET23	Entrepreneurship Development	3	0	0	3	-
28	PE	19MET24	Nano Electronics	3	0	0	3	-
29	PE	19MET25	Distributed Embedded Computing	3	0	0	3	-
30	PE	19MET26	Smart Grid	3	0	0	3	-
31	PE	19MET27	Electric Vehicles and Power Management	3	0	0	3	-
32	PE	19MET28	Soft Computing and Optimization Techniques	3	0	0	3	-
33	PE	19MET29	Wireless and Mobile Communication	3	0	0	3	-
34	PE	19MET30	Cryptography and Network Security	3	0	0	3	-
35	PE	19MET31	Robotics and Control	3	0	0	3	-

SEMESTER I

S.No.	Course Code	Course Title	Contact Hours per Week			Credits
			L	T	P	
1	19MMA06	Applied Mathematics for Electrical Engineers	4	0	0	4
2	19MET01	Advanced Digital Principles and Design	3	2	0	4
3	19MET02	Microcontroller Based System Design	3	0	0	3

4	19MET03	Design of Embedded Systems	3	0	0	3
5	19MET04	Software for Embedded Systems	3	0	0	3
6		Professional Elective I	3	0	0	3
7	19MET05	Embedded System Laboratory I	0	0	4	2
		Total	19	2	4	22

SEMESTER II						
S.No.	Course Code	Course Title	Contact Hours per Week			Credits
			L	T	P	
1	19MET06	Real Time Operating Systems	3	0	0	3
2	19MET07	Pervasive Devices and Technology	3	0	0	3
3	19MET08	RISC Processor Architecture and Programming	3	2	0	4
4	19MCS09	Internet of Things	3	0	0	3
5		Professional Elective II	3	0	0	3
6		Professional Elective III	3	0	0	3
7	19MET10	Embedded System Laboratory II	0	0	4	2
		Total	18	2	4	21

SEMESTER III						
S.No.	Course Code	Course Title	Contact Hours per Week			Credits
			L	T	P	
1		Professional Elective IV	3	0	0	3
2		Professional Elective V	3	0	0	3
3		Professional Elective VI	3	0	0	3
4	19MET32	Project Work Phase I	0	0	12	6
5	19MET33	Technical Seminar	0	0	2	1
		Total	9	0	14	16

SEMESTER IV						
S.No.	Course Code	Course Title	Contact Hours per Week			Credits
			L	T	P	
1	19MET34	Project Work Phase II	0	0	24	12
		Total	0	0	24	12

TOTAL CREDITS: 71