ACADEMIC CURRICULUM

(REGULATIONS 2019)

FOR

POST GRADUATE PROGRAMMES CHOICE BASED CREDIT SYSTEM

(Applicable to the students admitted from the Academic Year 2019-20 onwards)

M.E. - STRUCTURAL ENGINEERING

M.E. - COMPUTER SCIENCE AND ENGINEERING

M.E. - COMMUNICATION SYSTEMS

M.E. - EMBEDDED SYSTEM TECHNOLOGIES

M.E. - ENGINEERING DESIGN

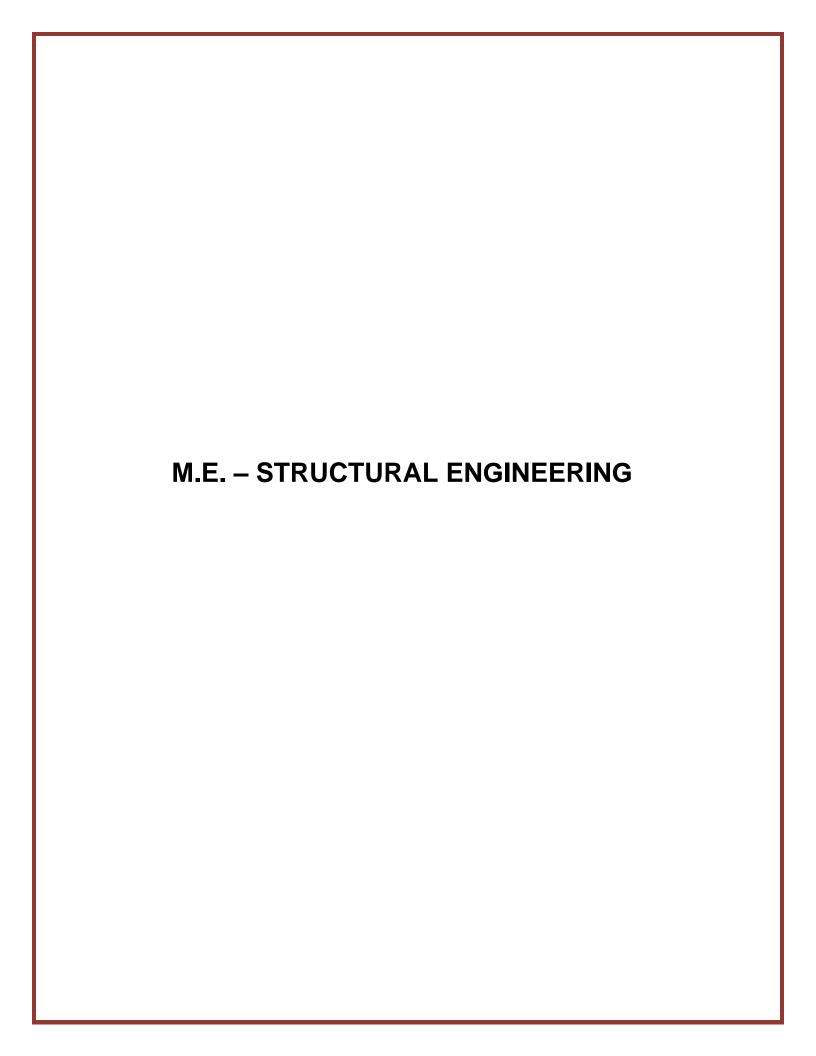
M.B.A- MASTER OF BUSINESS ADMINISTRATION



EASWARI ENGINEERING COLLEGE

(AUTONOMOUS INSTITUTION)

Bharathi Salai, Ramapuram, Chennai - 600 089



		SEMESTER I						
SI NO	Cauras Cada	Course Title	Cotomony	Н	ours	/ We	ek	Credits
SI. NO.	Course Code	Course Title	Category	L	Т	Р	R	Credits
Theory								
1	192MAB101T	Advanced Mathematical Methods	Н	3	2	-	-	4
2	192CEC101T	Dynamics of Structures	С	3	-	-	-	3
3	192CEC102T	Theory of Elasticity and Plasticity	С	3	-	-	-	3
4	192CEC103T	Advanced Concrete Structures	С	3	-	-	-	3
5		Professional Elective - I	Е	3	-	-	-	3
Practical								
6	192CEC111L	Structural Engineering Laboratory	С	-	-	3	1	2
Employability I	Enhancement / C	areer Advancement Course						
7	192CEA111L	Term Paper Writing and Technical Seminar	А	-	-	4	-	2
8	192CEA112L	Online course (Optional)	А	-	-	-	1	THREE
9	192CEA113L	Industry Supported Employability Enhancement Course - I (optional)	А	-	-	-	-	THREE
	Total						1	20

		SEMESTER II						
SI NO	Course Code	Course Title	Cotomomy	Н	ours	/ We	ek	Cuadita
SI. NO.	Course Code	Course Title	Category	L	Т	Р	R	Credits
Theory			•			•		•
1	192CEC201T	Finite Element Analysis of Structures	С	3	-	-	-	3
2	192CEC202T	Advanced Steel Structures	С	3	-	-	-	3
3	192CEC203T	Experimental Techniques and Instrumentation	С	3	-	-	-	3
4	192CEC204T	Earthquake Resistant Design of Structures	С	3	-	-	-	3
5		Professional Elective - II	E	3	-	-	-	3
6		Open Elective - I	0	3	-	-	-	3
Mandatory Cou	ırse							
7	192GEM201T	Research Methodology / Foreign Language / Value Education	М	2	-	-	-	TWO
Employability I	Enhancement / C	areer Advancement Course						
8	192CEP211L	Minor Project	А	-	-	-	4	2
9	192CEA211L	Internship / Industrial Training	Α	-	-	-	-	1
10	192CEA212L	Online course (Optional)	Α	-	-	-	-	THREE
11	192CEA213L	Industry Supported Employability Enhancement Course - I (optional)	А	-	-	-	-	THREE
	Total						4	21

	SEMESTER III									
SI. NO.	Course Code	Course Title	Cotogory	Н	ours	/ Wee	k	Credits		
SI. NO.	Course Code	Course Title	Category	L	Т	Р	R	Credits		
Theory	Theory									
1		Professional Elective - III	Е	3	-	-	-	3		
2		Professional Elective - IV	Е	3	-	-	-	3		
Practical										
3	192CEP311L	Project Work /Start-up (Phase I)	А	-	-	-	16	8		
Employa	Employability Enhancement / Career Advancement Course									
4	192CEA311L	Internship / Industrial Training	Α	-	-	-	-	2		
Total	tal				0	0	16	16		

SEMESTER IV										
SI. NO.	Cauras Cada	Course Title	Cotogony	Н	ours	/ Wee	ek	Credits		
SI. NO.	Course Code	Course Title	Category	L	Т	Р	R	Credits		
Practical										
1	192CEP411L	Project Work /Start-up (Phase II)	Α	-	-	-	28	14		
Total	Total 0 0 0 28						14			
Total Credit							70			

Subject Area Semester	I	II	III	IV	Credit
Foundation Course (H)	4				4
Professional Core (C)	11	12			23
Professional Electives (E)	3	3	6		12
Open Electives (O)		3			3
Employability Enhancement Courses (A)	2	3	10	14	29
Credit	20	21	16	14	71

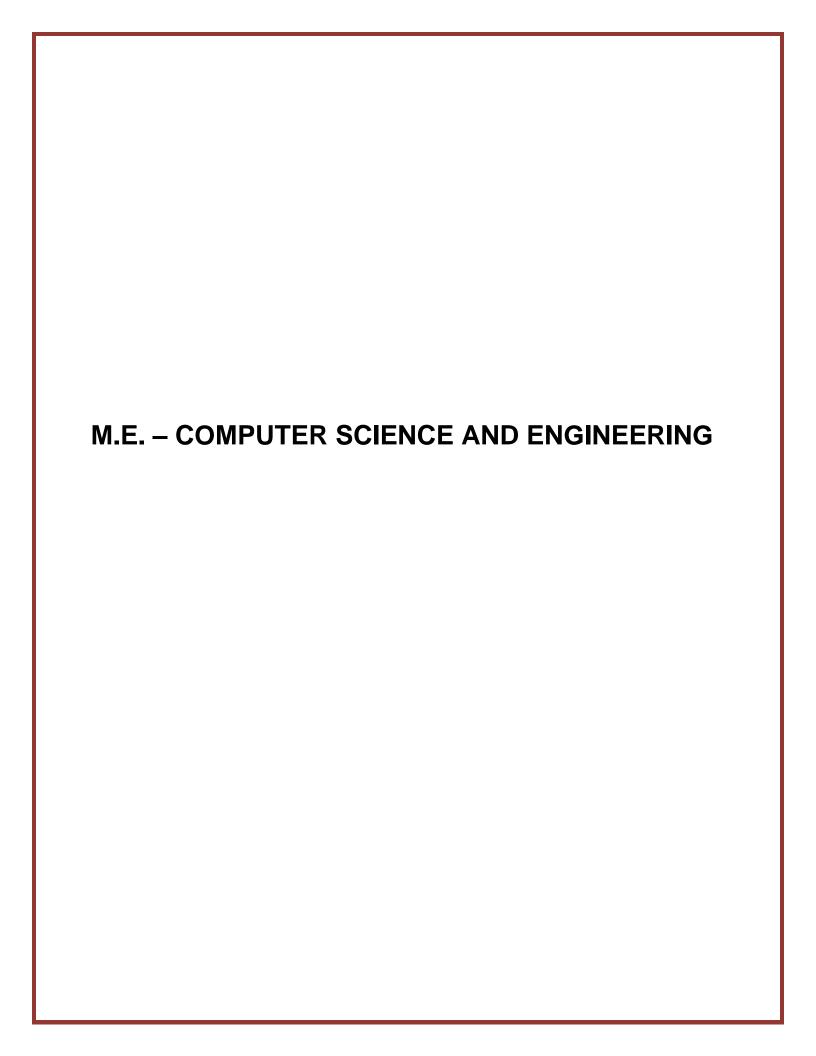
	PROFESSIONAL ELECTIVE – I										
SI.	Course Code	Course Title	Cotogony	Н	ours	/ We	ek	Credits			
No.	Course Code	Course Title	Category	Г	Т	Р	R	С			
1	192CEE001T	Advanced Concrete Technology	PE	3	-	-	-	3			
2	192CEE002T	Maintenance and Rehabilitation of Structures	PE	3	ı	1	-	3			
3	192CEE003T	Smart Materials and Smart Structures	PE	3	1	-	-	3			
4	192CEE004T	Matrix Methods of Structural Analysis	PE	3	1	-	-	3			

	PROFESSIONAL ELECTIVE – II									
SI.	Course Code	Code Course Title Categ			ours	/ We	ek Credit			
No.	Course Code	Course Title	Category	L	Т	Р	R	С		
1	192CEE005T	Prefabricated Structures	PE	3	1	-	-	3		
2	192CEE006T	Prestressed Concrete Structures	PE	3	1	-	-	3		
3	192CEE007T	Theory of Plates	PE	3	-	-	-	3		
4	192CEE008T	Stability of Structures	PE	3	-	-	-	3		

	PROFESSIONAL ELECTIVE – III										
SI.	Course Code	Course Title	Cotogory	Н	ours	/ We	ek	Credits			
No.	Course Code	Course Title	Category	L	T	Р	R	С			
1	192CEE009T	Optimization of Structures	PE	3	1	1	-	3			
2	192CEE010T	Design of Tall Buildings	PE	3	1	-	-	3			
3	192CEE011T	Design of Steel Concrete Composite Structures	PE	3	1	1	-	3			
4	192CEE012T	Design of Bridges	PE	3	1	-	-	3			

	PROFESSIONAL ELECTIVE – IV										
SI.	Course Code	Course Title	Catagory	Н	ours	/ We	ek	Credits			
No.	Course Code	Course Title	Category	L	T	Ρ	R	С			
1	192CEE013T	Design of Substructure	PE	3	1	-	-	3			
2	192CEE014T	Industrial Structures	PE	3	1	-	-	3			
3	192CEE015T	Wind and Cyclone Effects on Structures	PE	3	-	-	-	3			
4	192CEE016T	Offshore Structures	PE	3	-	-	-	3			

	OPEN ELECTIVE										
SI.	Course Code	Course Title	Catagory	Н	ours	/ We	ek	Credits			
No.	Course Code	Course Title	Category	L	Т	Р	R	С			
1	192CEO001T	Industrial Safety	OE	3	-	-	-	3			
2	192CEO002T	Cost Management of Engineering Projects	OE	3	-	-	-	3			
3	192CEO003T	Operations Research	OE	3	-	-	-	3			
4	192CEO004T	Energy Auditing	OE	3	-	-	-	3			
5	192CEO005T	Business Analytics	OE	3	-	-	-	3			



		SEMESTER I						
OL NO	0		0-1	Н	ours	/ We	ek	0
SI. NO.	Course Code	Course Title	Category	L	Т	Р	R	Credits
Theory			•					
1	192MAH101T	Applied Probability and Statistics	Н	3	2	-	-	4
2	192CSC101T	Advanced Data Structures and Algorithms	С	4	-	-	-	4
3	192CSC102T	Machine Learning Techniques	С	3	-	-	-	3
4	192CSC103T	Advanced Operating Systems	С	3	-	-	-	3
5		Professional Elective – I	Е	3	-	-	-	3
Practical								
6	192CSC111L	Machine Learning Laboratory	С	-	-	3	1	2
Employal	oility Enhanceme	ent / Career Advancement Course	•					
7	192CSA111L	Term Paper Writing and Technical Seminar	А	-	-	4	-	2
8	192CSA112L	Online course (Optional)	А	-	-	-	-	THREE
9	192CSA113L	Industry Supported Employability Enhancement Course - I (optional)	А	-	-	-	-	THREE
	Total					7	1	21

	SEMESTER II											
OL NO	0		0-1	Н	ours	/ We	ek	0 124				
SI. NO.	Course Code	Course Title	Category	L	Т	Р	R	Credits				
Theory			•									
1	192CSC201T	Network Design And Technologies	С	3	-	-	-	3				
2	192CSC202T	Data Science and Big Data Analytics	С	3	-	-	-	3				
3	192CSC203T	Agile Software Engineering	С	3	-	-	-	3				
4		Professional Elective - II	Е	3	-	-	-	3				
5		Open Elective - I	0	3	-	-	-	3				
Practical			•									
6	192CSC211L	Data Analytics Laboratory	С	-	-	3	1	2				
Mandato	ry Course		•									
7	192GEM201T	Research Methodology / Foreign Language / Value Education	М	2	-	-	-	TWO				
Employa	bility Enhanceme	ent / Career Advancement Course										
8	192CSP211L	Minor Project	А	-	-	-	4	2				
9	192CSA211L	Internship / Industrial Training	А	-	-	-	-	1				
10	192CSA212L	Online course (Optional)	А	-	-	-	-	THREE				
11	192CSA213L	Industry Supported Employability Enhancement Course - I (optional)	А	-	-	-	-	THREE				
Total				17	0	3	5	20				

	SEMESTER III									
SI. NO.	Course Code	Course Title	Cotogory	Н	ours	/ Wee	k	Credits		
31. NO.	Course Code	Course Title	Category	L	Т	Р	R	Credits		
Theory										
1		Professional Elective - III	Е	3	-	-	-	3		
2		Professional Elective - IV	Е	3	-	-	-	3		
Practical										
3	192CSP311L	Project Work /Start-up (Phase I)	А	-	-	-	16	8		
Employa	Employability Enhancement / Career Advancement Course									
4	192CSA311L	Internship / Industrial Training	А	-	-	-	-	1		
	Total					0	16	15		

SEMESTER IV										
SI. NO.	Course Code	Course Title	Cotogory	Hours /		/ Wee	Credits			
SI. NO.	Course Code	Course Title	Category	L	Т	Р	R	Credits		
Practical										
1	192CSP411L	Project Work /Start-up (Phase II)	Α	-	-	-	28	14		
Total							28	14		
Total Credit								69		

Subject Area Semester	ı	II	III	IV	Credit
Foundation Course (H)	4	-	-	-	4
Professional Core (C)	12	11	-	-	23
Professional Electives (E)	3	3	6	-	12
Open Electives (O)	-	3	-	-	3
Employability Enhancement Courses (A)	2	3	9	14	28
Credit	21	20	15	14	70

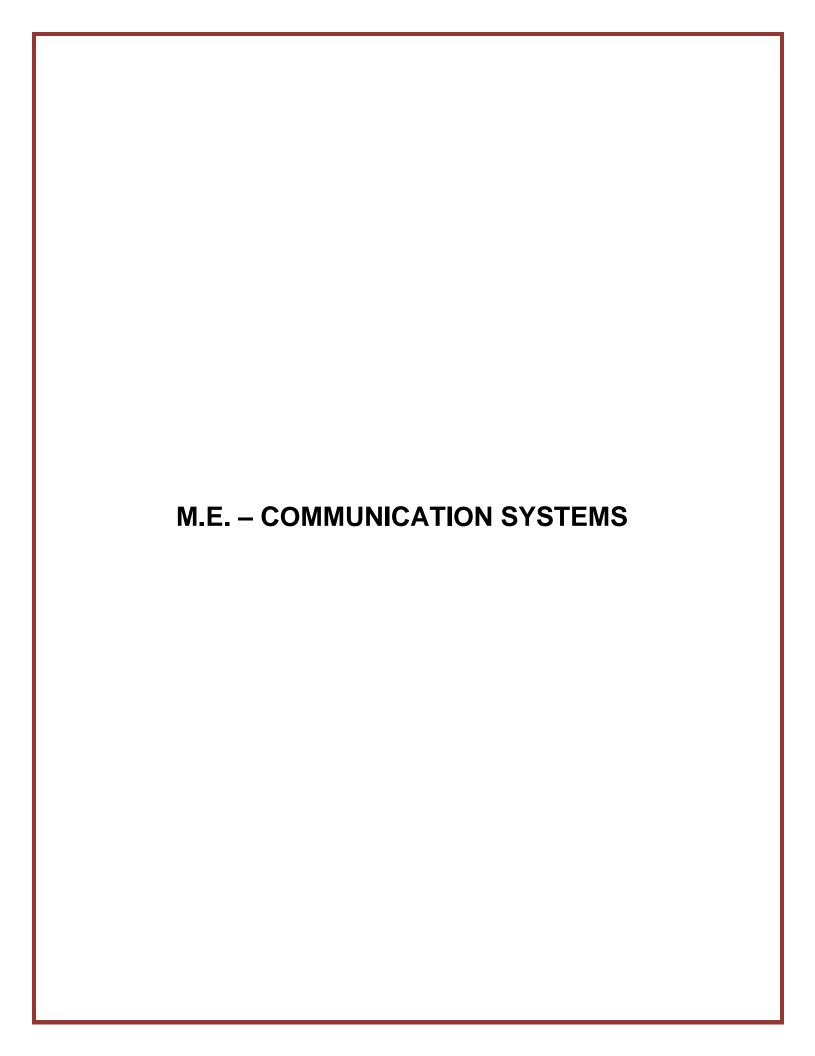
	PROFESSIONAL ELECTIVE – I											
SI.	Course Code	Course Title	Cotogony	Н	ours	/ We	ek	Credits				
No.	Course Code	Course Title	Category	L	Т	Р	R	С				
1	192CSE001T	Compiler Optimization Techniques	Е	3	1	-	-	3				
2	192CSE002T	Robotics	Е	3		-	-	3				
3	192CSE003T	Information Retrieval Techniques	Е	3	1	-	-	3				
4	192CSE004T	Wireless Sensor Networks	Е	3	1	-	-	3				
5	192CSE005T	Bio Inspired Computing	Е	3	-	-	-	3				
6	192CSE006T	Advanced Database Design and Management	Е	3	-	-	-	3				

	PROFESSIONAL ELECTIVE – II										
SI.	Course Code	Course Title Category		Н	ours	/ We	ek	Credits			
No.	Course Coue	Course Title	Category	L	Т	Ρ	R	С			
1	192CSE007T	XML and Web Services	Е	3	ı	ı	ı	3			
2	192CSE008T	Internet of Things	Е	3	ı	ı	ı	3			
3	192CSE009T	Data Visualization Techniques	Е	3	-	1	-	3			
4	192CSE010T	TCP/IP Technologies	Е	3	-	-	-	3			
5	192CSE011T	Virtual Reality	Е	3	-	ı	-	3			
6	192CSE012T	Embedded Software Development	Е	3	ı		-	3			

	PROFESSIONAL ELECTIVE – III										
SI.	Course Code	Course Title	Cotogony	Н	ours	/ We	ek	Credits			
No.	Course Code	Course Title	Category	L	Т	Р	R	С			
1	192CSE013T	Software Testing and Quality Assurance	Е	3	-	ı	i	3			
2	192CSE014T	Parallel Programming Paradigms	E	3	-	•	-	3			
3	192CSE015T	Speech Processing and Synthesis	Е	3	-	1	-	3			
4	192CSE016T	Semantic web and Social Networks	Е	3	-	1	-	3			
5	192CSE017T	Cyber Security	Е	3	-	-	-	3			
6	192CSE013T	Software Testing and Quality Assurance	Е	3	-	1	-	3			
7	192CSE014T	Parallel Programming Paradigms	Е	3	-	-	-	3			

	PROFESSIONAL ELECTIVE – IV										
SI.	Course Code	Course Title	Cotogory	Н	ours	/ We	ek	Credits			
No.	Course Code	Course Title	Category	L	Т	Р	R	С			
1	192CSE209T	Quantum Computing	Е	3	-	ı	ı	3			
2	192CSE021T	Natural Language Processing	Е	3	-	-	-	3			
3	192CSE022T	Real Time Systems	Е	3	-	-	-	3			
4	192CSE023T	Medical Image Processing	Е	3	-	-	-	3			
5	192CSE024T	Foundation of Block chain technology	Е	3	-	-	-	3			
6	192CSE025T	Cognitive computing	E	3	-	-	-	3			
7	192CSE026T	Formal Models Of Software Systems	Е	3	-	-	-	3			

		OPEN ELECTIVE						
SI.	Course Code	Course Title	Category	Н	ours	/ We	ek	Credits
No.				L	T	Р	R	С
1	192CSO001T	Java Programming	Е	3	1	ı	ı	3
2	192CSO002T	Data Structures and Algorithms	Е	3	1	ı	ı	3
3	192CSO003T	Big Data Analytics	Е	3	1	-	-	3
4	192CSO004T	cloud computing techniques	Е	3	1	-	-	3
5	192CSO005T	software engineering	Е	3	1	-	-	3
6	192CSO006T	Database Design and Management	Е	3	1	-	-	3
7	192CSO007T	Artificial Intelligence	Е	3	1	-	-	3
8	192CSO008T	Python Programming	Е	3	1	-	-	3



		SEMESTER I						
SI. NO.	Course Code	Course Title	Cotomony	ı	Hours	/ Wee	P R	Cradita
SI. NO.	Course Code	Course Title	Category	L	Т	Р	R	Credits
Theory								
1	192MAB103T	Applied Mathematics for Communication Engineers	Н	3	2	-	1	4
2	192ECC101T	Advanced Digital Communication Techniques	С	3	ı	-	ı	3
3	192ECC102T	Advanced Digital Signal Processing	С	3	ı	-	1	3
4	192ECC103T	Optical Networks	С	3	-	-	ı	3
5		Professional Elective I	Е	3	•	-	1	3
Practical								
6	192ECC111L	Communication Systems Laboratory	С	-	-	3	1	2
Employa	ability Enhancem	ent / Career Advancement Course						
7	192ECA111L	Term Paper Writing and Seminar	А	-	-	4	-	2
8	192ECA112L	Online Courses(Optional)	Α	-	-	-	-	THREE
9	192ECA113L	Industry Supported Employability Enhancement Course - I (optional)	А	-	-	-	-	THREE
Total			15	2	7	1	20	

		SEMESTER II						
01.110	0	O	0-1	Н	ours .	/ Wee	k	0
SI. NO.	Course Code	Course Title	Category	L	Т	Р	R	Credits
Theory					•			
1	192ECC201T	Advanced Wireless Communication Systems	С	3	-	-	-	3
2	192ECC202T	MIC and RF System Design	O	3	-	-	-	3
3	192ECC203T	Electromagnetic Interference and Compatibility	С	3	-	-	-	3
4		Professional Elective - II	E	3	-	-	-	3
5		Open Elective I	0	3	-	-	-	3
Practical	-		•			l	l.	
6	192ECC211L	RF System Design Laboratory	С	-	-	3	1	2
Mandate	ory Courses		•			ı		
7	192ECMXXXT	Research Methodology and IPR / Human Values /Foreign Language	М	2	-	-	-	TWO
Employ	ability Enhanceme	ent / Career Advancement Course						
8	192ECP211L	Minor Project	А	-	-	-	4	2
9	192ECA211L	Internship / Industrial Training	А	-	-	-	-	1
10	192ECA212L	Online Courses(Optional)	А	-	-	-	-	THREE

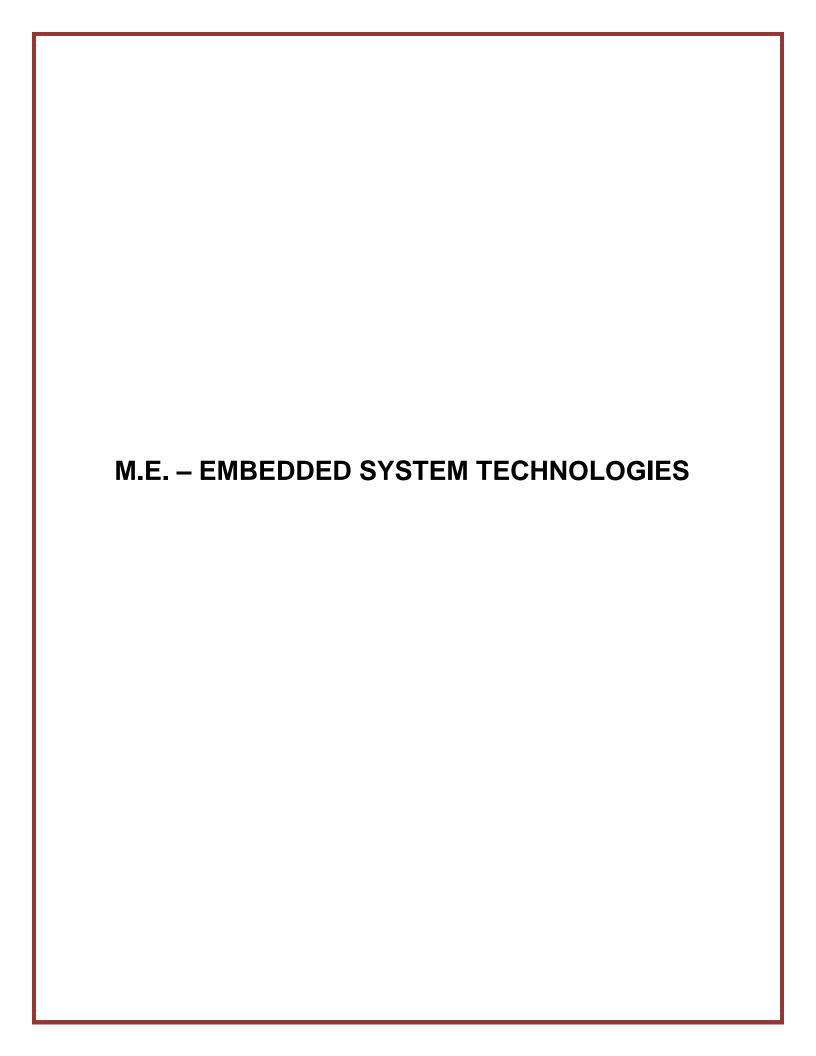
11	192ECA213L	Industry Supported Employability Enhancement Course - I (optional)	А	-	-	-	-	THREE
Total				17	0	3	5	20

		SEMESTER III									
SI. NO.	Course Code	Course Title	Catagory	Н	lours	/ Wee	₽k	Credits			
SI. NO.	Course Code	Course Title	Category	L	Т	Р	R	Credits			
	Theory										
1		Professional Elective III	Е	3	-	-	-	3			
2		Professional Elective IV	Е	3	-	-	-	3			
Practical			•								
3	192ECP311L	Project Work /Start-up (Phase I)	Р	-	-	-	16	8			
Employa	Employability Enhancement / Career Advancement Course										
4	192ECA311L	Internship / Industrial Training	А	-	-	-	-	1			
	Total					0	16	15			

		SEMESTER IV						
SI. NO.	Course Code	Course Title	Cotogory	Н	ours	/ Wee	ek	Credits
31. NO.	Course Code	Course Title	Category	L	Т	Р	R	Credits
Practical								
1	192ECP411L	Project Work / Start-up (Phase II)	Р	-	-	-	28	14
Total				0	0	0	28	14
	Total Credit						69	

Subject Area Semester	I	II	III	IV	Credit
Foundation Course (H)	4				4
Professional Core (C)	11	11			22
Professional Electives (E)	3	3	6		12
Open Electives (O)		3			3
Employability Enhancement Courses (A)	2	3	9	14	28
Credit	20	20	15	14	69

PROFESSIONAL ELECTIVE										
SI.	Course Code	Course Title	0-1	Н	ours	/ We	ek	Credits		
No.	Course Code	Course Title	Category	L	Т	Р	R	С		
1	192ECE001T	Advanced Radiation Systems	Е	3	-	-	-	3		
2	192ECE002T	Millimeter Wave Communication	Е	3	-	-	-	3		
3	192ECE003T	Advanced Satellite Communication and Navigation Systems	E	3	-	-	-	3		
4	192ECE004T	DSP Processor Architecture and Programming	E	3	-	-	-	3		
5	192ECE005T	Analog and Mixed Mode VLSI Design	Е	3	-	-	-	3		
6	192ECE006T	Real Time Embedded Systems	Е	3	-	-	-	3		
7	192ECE007T	MEMS and NEMS	Е	3	-	-	-	3		
8	192ECE008T	Digital Communication Receivers	Е	3	-	-	-	3		
9	192ECE009T	Detection and Estimation Theory	Е	3	-	-	-	3		
10	192ECE010T	VLSI for Wireless Communication	Е	3	-	-	-	3		
11	192ECE011T	Cognitive Networks and Software Defined Radio	Е	3	-	-	-	3		
12	192ECE012T	Advanced Digital Image Processing	E	3	-	-	-	3		
13	192ECE013T	Radar Signal Processing	Е	3	-	-	-	3		
14	192ECE014T	Speech Processing and Synthesis	Е	3	-	-	-	3		
15	192ECE015T	Advanced Wireless Networks	Е	3	-	-	-	3		
16	192ECE016T	Wavelet Transforms and its Applications	E	3	-	-	-	3		
17	192ECE017T	Broadband Access Technologies	E	3	-	-	-	3		
18	192ECE018T	Pattern Recognition and Machine Learning	Е	3	-	-	-	3		
19	192ECE019T	Wireless Adhoc and Sensor Networks	Е	3	-	-	-	3		
20	192ECE020T	Internet of Things	Е	3	-	-	-	3		
21	192ECE021T	Multimedia Compression Techniques	Е	3	-	-	-	3		
22	192ECE022T	Ultra Wide Band Communication	Е	3	-	-	-	3		
23	192ECE023T	Soft Computing Techniques	Е	3	-	-	-	3		
24	192ECE024T	Network Processors	Е	3	-	-	-	3		
25	192ECE025T	Communication Network Security	Е	3	-	-	-	3		
26	192ECE026T	High Performance Switching Architectures	Е	3	-	-	-	3		



		SEMESTER I						
SI. NO.	Course Code	Course Title	Cotogony	Но	Hours / Week			Credits
31. NO.	Course Code	Course Title	Category	L	Т	Р	R	Credits
Theory								
1	192MAB104T	Applied Mathematics for Electrical Engineers	Н	3	2	-	-	4
2	192EEC101T	ARM Processors and Controllers	С	3	-	-	-	3
3	192EEC102T	Advanced Digital System Design	С	3	-	-	-	3
4	192EEC103T	Embedded Sensor Networks	С	3	-	-	-	3
5		Professional Elective - I	Е	3	-	-	-	3
Practical								
6	192EEC111L	Embedded Systems Laboratory	С	-	-	3	1	2
Employal	oility Enhancemen	t / Career Advancement Course						
7	192EEA111L	Term Paper Writing and Seminar	А	-	-	4	-	2
8	192EEA112L	Online Courses(Optional)	А	-	-	-	-	THREE
9	192EEA113L	Industry Supported Employability Enhancement Course - I (optional)	А	-	-	-	-	THREE
		Total		15	2	7	1	20

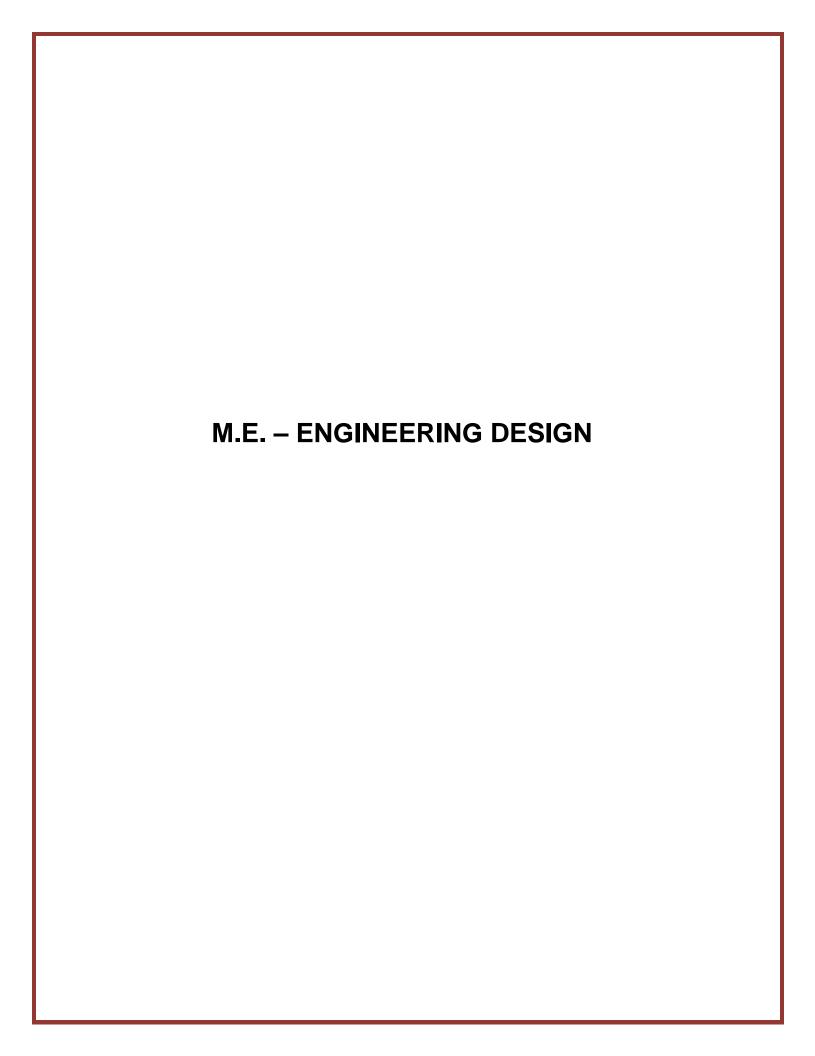
		SEMESTER II						
SI. NO.	Cauras Cada	Course Title	Cotomomy	Но	urs /	Wee	k	Cuadita
51. NO.	Course Code	Course Title	Category	L	Т	Р	R	Credits
Theory					•			
1	192EEC202T	Real Time Operating Systems	С	3	-	-	-	3
2	192EEC203T	Digital Controllers in Power Electronics Application	С	3	-	-	-	3
3	192EEC204T	Embedded Linux	С	3	-	-	-	3
4		Professional Elective – II	Е	3	-	-	-	3
5		Open Elective – I	0	3	-	-	-	3
Practical							•	
6	192EEC211L	Real Time Operating Systems Laboratory	С	-	-	3	1	2
Mandator	y Course (Choice)							
7	192GEM201T	Research Methodology / Foreign Language / Value Education	М	2	-	-	-	TWO
Employal	oility Enhancemen	t / Career Advancement Course						
8	192EEP211L	Minor Project	А	-	-	-	4	2
9	192EEA211L	Internship / Industrial Training	А		-	-	-	1
10	192EEA212L	Online course (Optional)	А	1	-	-	-	TWO
11	192CEA213L	Industry Supported Employability Enhancement Course - I (optional)	А	1	-	2	-	ONE
Total				17	0	9	5	20

		SEMESTER III						
SI. NO.	Course Code	Course Title	Catagory	Н	ours	/ Wee	k	Credits
SI. NO.	Course Code	Course Title	Category	L	Т	Р	R	Credits
Theory								
1		Professional Elective - III	E	3	1	1	-	3
2		Professional Elective - IV	Е	3	-	-	1	3
Practical								
3	192EEP311L	Project Work /Start-up (Phase I)	Р	-	-	-	16	8
Employa	bility Enhancem	ent / Career Advancement Course						
	192EEA311L	Internship / Industrial Training	А	-	-	-	-	1
Total				6	0	0	16	15

		SEMESTER IV						
SI. NO.	Cauras Cada	Course Title	Cotogory	Н	ours	/ Wee	₽k	Credits
31. NO.	Course Code	Course Title	Category	L	Т	Р	R	Credits
Practical								
1	192EEP411L	Project Work /Start-up (Phase II)	Р	-	-	-	28	14
Total								14
	Total Credit						69	

Subject Area Semester	I	II	III	IV	Credit
Foundation Course (H)	4	-			4
Professional Core (C)	11	11	-	-	22
Professional Electives (E)	3	3	6	-	12
Open Electives (O)	-	3	-	-	3
Employability Enhancement Courses (A)	2	3	9	14	28
Credit	20	20	15	14	69

		PROFESSIONAL ELECTIVE							
SI.	Course Code	Course Title	Catagory	Н	lours / Week		Hours / Week		Credits
No.	Course Code	Course Title	Category	L	Т	Р	R	С	
1	192EEE001T	Digital Image Processing	Е	3	ı	ı	-	3	
2	192EEE002T	Real Time Embedded Systems	Е	3	ı	ı	-	3	
3	192EEE003T	Low Power VLSI Design	Е	3	ı	ı	-	3	
4	192EEE004T	Digital Instrumentation	Е	3	-	-	-	3	
5	192EEE005T	Software For Embedded Systems	Е	3	-	-	-	3	
6	192EEE006T	Wireless And Mobile Communication	Е	3	-	-	-	3	
7	192EEE007T	Machine Learning And Applications	Е	3	-	-	-	3	
8	192EEE008T	Embedded System Network	Е	3	1	ı	-	3	
9	192EEE009T	Information Theory And Coding	Е	3	ı	ı	-	3	
10	192EEE010T	Internet Of Things	Е	3	-	-	-	3	
11	192EEE011T	Robotics And Control	Е	3	-	-	-	3	
12	192EEE012T	Electric Vehicles And Power Management	Е	3	-	-	-	3	



		SEMESTER I						
SI. NO.	Course Code	Course Title	Cotogony	Но	Hours / Week			Credits
SI. NO.	Course Code	Course Title	Category	L	Т	Р	R	Credits
Theory								
1	192MAB101T	Applied Mathematics for Engineers	Н	3	2	-	-	4
2	192MEC101T	Engineering Fracture Mechanics	С	3	-	-	-	3
3	192MEC102T	Computer Applications in Design	С	3	-	-	-	3
4	192MEC103T	Advanced Finite Element Analysis	С	3	-	-	-	3
5		Professional Elective - I	Е	3	-	-	-	3
Practical								
6	192MEC111L	CAD and Analysis Laboratory	С	-	-	3	1	2
Employal	bility Enhanceme	nt / Career Advancement Course						
7	192MEA111L	Term Paper Writing and Technical Seminar	А	-	-	4	-	2
8	192MEA112L	Online course (Optional)	Α	-	-		-	THREE
9	192MEA113L	Industry Supported Employability Enhancement Course - I (optional)	А	-	-	-	-	THREE
Total				15	2	7	1	20

		SEMESTER II						
SI NO	Cauras Cada	Course Title	Catamami	Hours / Week	Cuadita			
SI. NO.	Course Code	Course Title	Category	L	Т	Р	R	Credits
Theory							•	
1	192MEC201T	Mechanisms Design and Simulation	С	3	-	-	-	3
2	192MEC202T	Mechanical Behavior of Materials	С	3	-	-	-	3
3	192MEC203T	Vibration Analysis and Control	С	3	-	-	-	3
4		Professional Elective - II	E	3	-	-	-	3
5		Open Elective - I	0	3	-	-	-	3
Practical								
6	192MEC201L	Vibration lab	С	-	-	3	1	2
Mandator	ry Course		•				•	
7	192GEM201T	Research Methodology and IPR/ Foreign Language/ Human Values	М	2	-	-	-	TWO
Employal	bility Enhancemer	nt / Career Advancement Course						
8	192MEP211L	Design Project	Α	1	-	-	4	2
9	192MEA211L	Internship / Industrial Training	А	1	_	-	-	1
10	192MEA212L	Online course (Optional)	А	-	-	-	-	THREE
11	192MEA213L	Industry Supported Employability Enhancement Course - I (optional)	А	-	-	-	-	THREE
Total				17	0	3	5	20

		SEMESTER III						
SI. NO.	Course Code	Course Title	Cotogory	Н	ours	/ Wee	k	Credits
SI. NO.	Course Code	Course Title	Category	L	Т	Р	R	Credits
Theory								
1		Professional Elective-III	Е	3	-	-	-	3
2		Professional Elective-IV	Е	3	-	-	-	3
Practical								
3	192MEP311P	Project Work /Start-up (Phase I)	А	-	-	-	16	8
Employa	bility Enhancem	ent / Career Advancement Course						
4	192MEA311L	Industry Internship	А	-	-	-	-	2
Total				6	0	0	16	16

		SEMESTER IV						
SI. NO.	Course Code	le Course Title	Category	Н	Cua dita			
	Course Code			L	Т	Р	R	Credits
Practical								
1	192MEP411P	Project Work /Start-up (Phase II)	EEC	-	-	-	28	14
Total	Total					0	28	14
Total Credit							70	

Subject Area Semester	I	II	III	IV	Credit
Foundation Course (H)	4				4
Professional Core (C)	11	11			22
Professional Electives (E)	3	3	6		12
Open Electives (O)		3			3
Employability Enhancement Courses (A)	2	3	10	14	29
Credit	20	20	16	16	70

	PROFESSIONAL ELECTIVE – I								
SI.	0	Course Title	Cotogory	Н	ours	ek	Credits		
No.	Course Code	Course Title	Category	L	Т	Р	R	С	
1	192MEE101T	Quality Concepts in Design	Е	3	1	-	-	3	
2	192MEE102T	Optimization Techniques in Design	Е	3	1	-	-	3	
3	192MEE103T	Design of Pressure Vessel and Piping	E	3	-	-	-	3	
4	192MEE104T	Design of Material Handling Equipments	Е	3	-	-	-	3	
5	192MEE105T	Additive Manufacturing and Tooling	E	3	-	-	-	3	
6	192MEE106T	Information Analytics	Е	3	-	-	-	3	

		PROFESSIONAL ELECTIVE – II						
SI.	Course Code Course Title	Category	Н	ours	ek	Credits		
No.			L	Т	Р	R	С	
1	192MEE201T	Integrated Mechanical Design	Е	3	-	-	-	3
2	192MEE202T	Modal Analysis of Mechanical Systems	Е	3	-	-	-	3
3	192MEE203T	Advanced Metal Forming Techniques	Е	3	-	-	-	3
4	192MEE204T	Tribology in Design	Е	3	-	-	-	3
5	192MEE205T	Surface Engineering	E	3	-	-	-	3
6	192MEE206T	Advanced Mechanics of Materials	E	3	-	1	-	3

	PROFESSIONAL ELECTIVE – III									
SI.	Course Code Course Title	Catagory	Н	ours	/ We	ek	Credits			
No.		Category	L	Т	Р	R	С			
1	192MEE301T	Product Lifecycle Management	Е	3	1	1	-	3		
2	192MEE302T	Design for Internet of Things	Е	3	1	-	-	3		
3	192MEE303T	Design of Hydraulic and Pneumatic Systems	Е	3	-	-	-	3		
4	192MEE304T	Computational Fluid Dynamics	E	3	-	-	-	3		
5	192MEE305T	Biomechanics	Е	3	-	-	-	3		

		PROFESSIONAL ELECTIVE – IV						
SI.	SI. No. Course Code Course Title	Course Title	Catagory	Н	ours	/ We	ek	Credits
No.		Course Title	Category	L	Т	Р	R	С
1	192MEE306T	Design for Manufacture, Assembly and Environments	Е	3	-	1	-	3
2	192MEE307T	Product Design for Sustainability	E	3	-	-	-	3
3	192MEE308T	Bearing Design and Rotor Dynamics	Е	3	-	-	-	3
4	192MEE309T	Composite Materials and Mechanics	Е	3	-	-	-	3
5	192MEE310T	Plates and Shells	Е	3	-	-	-	3

		OPEN ELECTIVE						
SI. Court	Course Code	Course Title	0-1	Hours / Week				Credits
No.	Course Code Course Title	Category	L	Т	Р	R	С	
1		Machine Learning	0	3	-	-	-	3
2		Artificial Intelligence	0	3	-	-	-	3
3		Internet of Things	0	3	-	-	-	3

		MANDATORY COURSES						
SI. No.	Course Code Course Title	Course Code Course Title Category	Catagory	Н	ours	/ We	ek	Credits
	Course Code		Category	L	T	Р	R	С
1	192MEM201T	Research Methodology and IPR	M	2	-	-	-	-
2	192MEM202T	Foreign Language	М	2	-	-	-	-
3	192MEM203T	Human Values	М	2	-	-	-	-