

**13. Courses of Study and Scheme of Assessment
ME APPLIED ELECTRONICS**

**(2021 REGULATIONS)
(Minimum No. of credits to be earned: 70*)**

Course Code	Course Title	Periods / Week			Credits	Maximum Marks			CAT
		Lecture	Tutorial	Practical		CA	FE	Total	
III SEMESTER									
21EA__	Professional Elective IV	3	-	-	3	50	50	100	PE
21EA__	Open Elective	3	-	-	3	50	50	100	OE
21EA71	Project Work I	-	-	12	6	100	-	100	EEC
Total 18 Periods		6	0	12	12	200	100	300	
IV SEMESTER									
21EA81	Project Work II	-	-	24	12	50	50	100	EEC
PROFESSIONAL ELECTIVE THEORY COURSES (Four to be opted)									
21EA21	Algorithms for VLSI Design Automation	3	-	-	3	50	50	100	PE
21EA22	Analog VLSI Design	3	-	-	3	50	50	100	PE
21EA23	Hardware Design Verification Techniques	3	-	-	3	50	50	100	PE
21EA24	ASIC Design	3	-	-	3	50	50	100	PE
21EA25	System on Chip	3	-	-	3	50	50	100	PE
21EA26	Computer Architecture and Parallel Processing	3	-	-	3	50	50	100	PE
21EA27	Internet Working and its Applications	3	-	-	3	50	50	100	PE
21EA28	Real-Time Operating Systems	3	-	-	3	50	50	100	PE
21EA29	Linux Architecture and Device Drivers	3	-	-	3	50	50	100	PE
21EA30	Virtual Instrumentation Systems	3	-	-	3	50	50	100	PE
21EA31	Artificial Intelligence and Machine learning	3	-	-	3	50	50	100	PE
21EA32	Optimisation Techniques	3	-	-	3	50	50	100	PE
21EA33	Wireless Sensor Networks	3	-	-	3	50	50	100	PE
21EA34	Bio Signal Processing	3	-	-	3	50	50	100	PE
21EA35	Wavelets and Applications	3	-	-	3	50	50	100	PE
21EA36	Electronic Product Design	3	-	-	3	50	50	100	PE
21EA37	Digital Image Processing	3	-	-	3	50	50	100	PE
21EA38	Soft Computing	3	-	-	3	50	50	100	PE
21EA39	Industrial Drives for Automation	3	-	-	3	50	50	100	PE
21EA40	Python Programming	3	-	-	3	50	50	100	PE
21EA41	Automotive Embedded Systems	3	-	-	3	50	50	100	PE
21EA42	Machine Vision	3	-	-	3	50	50	100	PE
21EA43	Digital Control Engineering	3	-	-	3	50	50	100	PE
21EA44	Robotics and its Applications	3	-	-	3	50	50	100	PE
21EA45	Sensors, Actuators and Interface Electronics	3	-	-	3	50	50	100	PE

21EA46	Electromagnetic Interference and Compatibility	3	-	-	3	50	50	100	PE
OPEN ELECTIVE THEORY COURSES (One to be opted)									
21EA91	Business Analytics	3	-	-	3	50	50	100	OE
21EA92	Electronic Waste Management	3	-	-	3	50	50	100	OE
21EA93	Industrial Safety and Standards	3	-	-	3	50	50	100	OE
21EA94	Innovation and Product Development	3	-	-	3	50	50	100	OE

* Indicated is the minimum number of credits to be earned by a student.

CAT – Category; PC – Professional Core; PE - Professional Elective; EEC – Employability Enhancement Course; MC - Mandatory Course; RMC - Research Methodology Course; OE – Open Elective; Grade – Completed / Not Completed