

THIAGARAJAR COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
PERCENTAGE OF REVISION OF B.E. ELECTRICAL AND ELECTRONICS ENGINEERING CURRICULUM 2014-2015

Sl. No.	Course Code	Course Name	Change Details	% of Change	weightage	Course Code	Course Name
1	H11	Engineering Mathematics – I		10	0.1	14MA110	Engineering Mathematics I
2	H12	Physics		10	0.1	14PH120	Physics
3	H13	Chemistry		10	0.1	14CH130	Chemistry
4	H14	English		10	0.1	14EG140	English
5	H15	Basics of Civil and Mechanical Engineering		10	0.1	14ES150	Basics of Civil and Mechanical Engineering
6	H16	Basics of EE and ECE		10	0.1	14ES160	Basics of Electrical and Electronics Engineering
7	H17	Physics Lab		10	0.1	14PH180	Physics Lab
8	H18	Chemistry Lab		10	0.1	14CH190	Chemistry Lab
9	H19	Engineering Graphics		10	0.1	14ME170	Engineering Graphics
10	E21	Engineering Mathematics – II		40	0.4	14EE210	Engineering Mathematics II
11	E22	Electric Circuit Analysis		30	0.3	14EE270	Electric Circuit Analysis
12	E23	Analog Circuits and Systems		10	0.1	14EE250	Analog Devices and Circuits
13	E24	Computers and programming		90	0.9	14EE370	Problem solving using Computers
14	E25	Material Science		40	0.4	14EE220	Materials Science for Electrical Engineering
15	E26	Environment and Ecology	Dropped		0	REMOVED	
16	E27	Analog Circuits and Systems Lab		20	0.2	14EE280	Analog Devices and Circuits Lab
17	E28	Computer programming lab	Dropped		0		
18	E29	Workshop		100	1	14ES290	Workshop
19	E31	Engineering Mathematics – III		5	0.05	14EE310	Engineering Mathematics III
20	E32	Electromagnetics 4:0		10	0.1	14EE240	Electromagnetic Fields
21	E33	DC Machines and Transformers		10	0.1	14EE330	DC machines
22	E34	Digital Systems		40	0.4	14EE350	Digital Systems
23	E35	Data Structures			0	14EPU0	Data Structures
24	E36	Control Systems		40	0.4	14EE430	Control Systems

25	E37	Digital Systems Lab		50	0.5	14EE390	Digital Systems lab
26	E38	DC Machines and Transformers Lab		25	0.25	14EE380	DC Machines and Transformers Lab
27	E41	Engineering Mathematics – IV		40	0.4	14EE410	Engineering Mathematics IV
28	E42	AC Machines		10	0.1	14EE440	AC Machines
29	E43	Microprocessors and microcontrollers		50	0.5	14EE460	Microcontrollers
30	E44	Thermal Engineering	Dropped		0	REMOVED	
31	E45	Digital Signal Processing		20	0.2	14EE550	Digital Signal Processing
32	E46	Electrical & Electronic Measurements		25	0.25	14EE340	Measurement Systems (
33	E47	AC Machines Lab.		20	0.2	14EE480	AC Machines Lab
34	E48	Thermal Engineering Lab 0:1	Dropped		0	REMOVED	
35	E49	Professional Communications		30	0.3	14EE670	Professional Communication
36	E51	Numerical Methods		30	0.3	14EE510	Numerical Methods
37	E52	Generation, Transmission and Distribution		20	0.2	14EE630	Transmission and Distribution
38	E53	Power Electronics		30	0.3	14EE620	Power Electronics
39	E54	Embedded Systems 3:0		90	0.9	14EEPNO	Embedded Systems Design
40	E55	Mixed Signal Circuits	Dropped		0	REMOVED	
41	E56	Design of Electrical Machines		10	0.1	14EE320	Transformers
42	E57	Digital Signal Processing Lab		30	0.3	14EE580	Digital Signal Processing Lab
43	E58	Microprocessor and Microcontroller Lab.		90	0.9	14EE490	Microcontrollers Lab
44	E59	Instrumentation and Control		80	0.8	14EE590	Control and Instrumentation Lab
45	E61	Accounting and Finance		10	0.1	14EE610	Accounting and Finance
46	E62	Power System Analysis		10	0.1	14EEPBO	Power system Analysis
47	E63	Electric Drives		10	0.1	14EE720	Drives and Control
48	E64	VLSI design		20	0.2	14EEPH0	VLSI design
49	E67	Power System Simulation Lab		40	0.4	14EE680	Power Systems Lab
50	E68	Power Electronics and Drives Lab		30	0.3	14EE690	Power Electronics and Drives Lab

51	E71	Management theory and practice	Dropped		0	REMOVED	
52	E72	Protection and Switchgear		5	0.05	14EEPG0	Switchgear and Protection
53	E84	Project			0	14EE880	Project
54	ECA	Special Machines			0	14EEPZ0	Special Machines and Drives
55	ECB	Digital Control Systems	Dropped		0	REMOVED	
56	ECC	High Voltage Engineering	Dropped		0	REMOVED	
57	ECD	Soft Computing		20	0.2	14EEPS0	Soft Computing
58	ECE	Analog Integrated Circuit Design	Dropped		0	REMOVED	
59	ECF	Digital Systems Design with PLDs and FPGAs		30	0.3	14EEPJ0	FPGA based System Design
60	ECG	Power System Control		40	0.4	14EEPE0	Power System Operation and Control
61	ECH	Robotics		5	0.05	14EEPP0	Robotics
62	ECJ	Operation and Maintenance of Electrical Equipment		30	0.3	14EERD0	Operation and Maintenance of Electrical equipment
63	ECK	Power plant Economics	Dropped		0	REMOVED	
64	ECL	Instrumentation Systems		30	0.3	14EE450	Instrumentation Systems
65	ECM	Flexible AC Transmission Systems		20	0.2	14EEPV0	FACTS and Custom Power Devices
66	ECN	Power System Stability		40	0.4	14EEPF0	Power System Stability
67	ECO	Electrical Power Quality		10	0.1	14EOPY0	Power Quality
68	ECP	Real Time Operating Systems		60	0.6	14EEPM0	Real Time Operating System
69	ECQ	Computer Networks	Dropped		0	REMOVED	
70	ECR	Distributed Generation Systems	Dropped		0	REMOVED	
71	ECS	Automotive Electronics		40	0.4	14EEPQ0	Automotive Electronics
72	ECT	Industrial Controllers	Dropped		0	REMOVED	
73	ECU	Gas Insulated Sub Stations	Dropped		0	REMOVED	
74	ECV	Operations Research	Dropped		0	REMOVED	
75	ECW	Smart Grid			0	14EEPD0	Smart Grid
76			New core courses	100	1	14EE450	Engineering Design

77				100	1	14EE230	Environmental Science and Ethics
78				100	1	14EE4C0	Capstone Course-I
79				100	1	14EE520	Power Semiconductor Devices
80				100	1	14EE540	Energy Resources and Utilization
81				100	1	14EE550	Control system design
82				100	1	14EE710	Project Management
83				100	1	14EE730	Industrial Automation
84				100	1	14EE780	Automation Lab
85				100	1	14EE7C0	Capstone Course-II
86			New Elective courses	100	1	14EEPA0	Modeling of Electrical Machines
87				100	1	14EEPC0	Design of Electrical Installations
88				100	1	14EERC0	Principles of Energy conservation
89				100	1	14EERG0	Electrical Machine Design
90				100	1	14EEPK0	Digital Signal Processors
91				100	1	14EEPL0	Biomedical Instrumentation
92				100	1	14EEPT0	Virtual Instrumentation
93				100	1	14EEPR0	Automotive Fundamentals and Manufacturing
94				100	1	14EERE0	Autonomous Vehicles
95				100	1	14EERF0	Industrial Instrumentation
96				100	1	14EEPW0	HVDC Transmission
97				100	1	14EERA0	Power Electronics for Renewable Energy Systems
98				100	1	14EERB0	Simulation of Power Electronic Systems
99	E1B	Design of LV Robust Distribution System	One credit courses		0	14EE1H0	Design of LV Robust Distribution System
100	E1M	Lead Acid Battery Technology			0	14EE1J0	Lead Acid Battery Technology
101	E1H	Design of Power Supplies			0	14EE1K0	Design of Power Supplies
102	E1J	Micro Grid			0	14EE1L0	Micro Grid
103	E1K	Safety Engineering			0	14EE1M0	Safety Engineering

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	Curriculum 2014-2015					Curriculum 2016-2017	
Sl. No.	Course Code	Course Name	Change Details	% of Change	weightage	Course Code	Course Name
1	14MA110	Engineering Mathematics I		0	0	14MA110	Engineering Mathematics I
2	14PH120	Physics		0	0	14PH120	Physics
3	14CH130	Chemistry		0	0	14CH130	Chemistry
4	14EG140	English		0	0	14EG141	English
5	14ES150	Basics of Civil and Mechanical Engineering		0	0	14ES150	Basics of Civil and Mechanical Engineering
6	14ES160	Basics of Electrical and Electronics Engineering		0	0	14ES160	Basics of Electrical and Electronics Engineering
7	14PH180	Physics Lab		0	0	14PH180	Physics Lab
8	14CH190	Chemistry Lab		0	0	14CH190	Chemistry Lab
9	14ME170	Engineering Graphics		0	0	14ME170	Engineering Graphics
10	14EE210	Engineering Mathematics II		0	0	14EE210	Engineering Mathematics II
11	14EE270	Electric Circuit Analysis		0	0	14EE270	Electric Circuit Analysis
12	14EE250	Analog Devices and Circuits		5	0.05	16EE250*	Electronic devices and circuits
13	14EE370	Problem solving using Computers	DROPPED / NEW	100	1	16ES370	C and C++ Programming
14	14EE220	Materials Science for Electrical Engineering		0	0	14EE220	Materials Science for Electrical Engineering
15	14EE280	Analog Devices and Circuits Lab		0	0	16EE280*	Electronic Devices and Circuits Lab
16	14ES290	Workshop		0	0	14ES290	Workshop
17	14EE310	Engineering Mathematics III		0	0	14EE310	Engineering Mathematics III
18	14EE240	Electromagnetic Fields		0	0	14EE240	Electromagnetic Fields
19	14EE330	DC machines		10	0.1	16EE330*	DC Machines and Transformers
20	14EE350	Digital Systems		0	0	14EE350	Digital Systems
21	14EEPU0	Data Structures		0	0	14EEPU0	Data Structures
22	14EE430	Control Systems		0	0	14EE430	Control Systems

23	14EE390	Digital Systems lab		0	0	16EE390*	Integrated Circuits Lab
24	14EE380	DC Machines and Transformers Lab		0	0	14EE380	DC Machines and Transformers Lab
25	14EE410	Engineering Mathematics IV		0	0	14EE410	Engineering Mathematics IV
26	14EE440	AC Machines		10	0.1	16EE440*	AC Machines
27	14EE460	Microcontrollers		0	0	14EE460	Microcontrollers
28	14EE550	Digital Signal Processing		0	0	14EE550	Digital Signal Processing
29	14EE340	Measurement Systems (0	0	14EE340	Measurement Systems (
30	14EE480	AC Machines Lab		0	0	14EE480	AC Machines Lab
31	14EE670	Professional Communication		0	0	14EE670	Professional Communication
32	14EE510	Numerical Methods		0	0	14EE510	Numerical Methods
33	14EE630	Transmission and Distribution		0	0	14EE630	Transmission and Distribution
34	14EE620	Power Electronics		10	0.1	15EE520*	Power Electronics
35	14EEPNO	Embedded Systems Design		0	0	14EEPNO	Embedded Systems Design
36	14EE320	Transformers		10	0.1	16EE320*	Linear Integrated Circuits
37	14EE580	Digital Signal Processing Lab		0	0	14EE580	Digital Signal Processing Lab
38	14EE490	Microcontrollers Lab		0	0	14EE490	Microcontrollers Lab
39	14EE590	Control and Instrumentation Lab		0	0	14EE590	Control and Instrumentation Lab
40	14EE610	Accounting and Finance		0	0	14EE610	Accounting and Finance
41	14EEPBO	Power system Analysis		0	0	15EE620	Power system Analysis
42	14EE720	Drives and Control		0	0	14EE720	Drives and Control
43	14EEPHO	VLSI design		0	0	14EEPHO	VLSI design
44	14EE680	Power Systems Lab		0	0	14EE680	Power Systems Lab
45	14EE690	Power Electronics and Drives Lab		0	0	14EE690	Power Electronics and Drives Lab
46	14EEPGO	Switchgear and Protection		0	0	14EEPGO	Switchgear and Protection
47	14EE880	Project		0	0	14EE880	Project
48	14EEPZO	Special Machines and Drives		0	0	14EEPZO	Special Machines and Drives
49	14EEPJO	FPGA based System Design		0	0	14EEPJO	FPGA based System Design
50	14EEPEO	Power System Operation and Control		0	0	14EEPEO	Power System Operation and Control
51	14EEPP0	Robotics		0	0	14EEPP0	Robotics

52	14EERD0	Operation and Maintenance of Electrical equipment		0	0	14EERD0	Operation and Maintenance of Electrical equipment
53	14EE450	Instrumentation Systems		0	0	14EE450	Instrumentation Systems
54	14EEPVO	FACTS and Custom Power Devices		0	0	14EEPVO	FACTS and Custom Power Devices
55	14EEPF0	Power System Stability		0	0	14EEPF0	Power System Stability
56	14EEPY0	Power Quality		0	0	14EEPY0	Power Quality
57	14EETM0	Real Time Operating System		0	0	14EETM0	Real Time Operating System
58	14EETQ0	Automotive Electronics		0	0	14EETQ0	Automotive Electronics
59	14EETD0	Smart Grid		0	0	14EETD0	Smart Grid
60	14EE450	Engineering Design		0	0	14EE450	Engineering Design
61	14EE230	Environmental Science and Ethics		0	0	14EE230	Environmental Science and Ethics
62	14EE4C0	Capstone Course-I		0	0	14EE4C0	Capstone Course-I
63	14EE520	Power Semiconductor Devices	DROPPED	0			
64	14EE540	Energy Resources and Utilization		0	0	14EE540	Energy Resources and Utilization
65	14EE550	Control system design		0	0	14EE550	Control system design
66	14EE710	Project Management		0	0	14EE710	Project Management
67	14EE730	Industrial Automation		0	0	14EE730	Industrial Automation
68	14EE780	Automation Lab		0	0	14EE780	Automation Lab
69	14EE7C0	Capstone Course-II		0	0	14EE7C0	Capstone Course-II
70	14EERG0	Electrical Machine Design		0	0	14EERG0	Electrical Machine Design
71	14EETK0	Digital Signal Processors		0	0	14EETK0	Digital Signal Processors
72	14EETL0	Biomedical Instrumentation		0	0	14EETL0	Biomedical Instrumentation
73	14EETP0	Virtual Instrumentation		0	0	14EETP0	Virtual Instrumentation
74	14EETR0	Automotive Fundamentals and Manufacturing		0	0	14EETR0	Automotive Fundamentals and Manufacturing
75	14EERE0	Autonomous Vehicles		0	0	14EERE0	Autonomous Vehicles
76	14EERF0	Industrial Instrumentation		0	0	14EERF0	Industrial Instrumentation
77	14EETW0	HVDC Transmission		0	0	14EETW0	HVDC Transmission
78	14EERA0	Power Electronics for Renewable Energy Systems		0	0	14EERA0	Power Electronics for Renewable Energy Systems

