

SECOND YEAR: ELECTRICAL & ELECTRONICS ENGINEERING**SCHEME OF INSTRUCTION AND EXAMINATION REVISED COURSE 2019-2020****SEMESTER - III**

Subject Code	Name of the Subject	Scheme of Instruction Hrs/Week				Scheme of Examination							Credit
		L	T	P	H	ThDuration (Hrs)	Marks						
							Th	S	TW**	P	O	Total	
EE310	Mathematics-III	3	1	0	4	3	100	25	25	0	0	150	4
EE320	Electromagnetic Fields	3	0	0	3	3	100	25	0	0	0	125	3
EE330	Digital Electronics	4	0	0	4	3	100	25	0	0	0	125	4
EE340	Electrical Machines - I	4	0	0	4	3	100	25	0	0	0	125	4
EE350	Electrical Circuit Analysis	3	1	0	4	3	100	25	25	0	0	150	4
EE360	Digital Electronics Lab	0	0	2	2	-	0	0	25	50	0	75	1
EE370	Electrical Machines-I Lab	0	0	2	2	-	0	0	25	50	0	75	1
HM001	Technical Communication	2	0	0	2	-	0	0	75	0	0	75	2
AC390	Mathematics-I & II (Bridge Course)*	2	0	0	2	-	0	0	0	0	0	0	0
TOTAL		21	2	4	27	--	500	125	175	100	0	900	23

*Applicable to direct second year /lateral entry students

**Term Work marks are to be awarded through continuous evaluation

SECOND YEAR: ELECTRICAL & ELECTRONICS ENGINEERING**SCHEME OF INSTRUCTION AND EXAMINATION REVISED COURSE 2019-2020****SEMESTER - IV**

Subject Code	Name of the Subject	Scheme of Instruction Hrs/Week				Scheme of Examination							Credit
		L	T	P	H	ThDuration (Hrs)	Marks						
							Th	S	TW*	P	O	Total	
EE410	Numerical Methods	3	1	0	4	3	100	25	25	0	0	150	4
EE420	Electrical Machines - II	4	0	0	4	3	100	25	0	0	0	125	4
EE430	Analog Electronics	4	0	0	4	3	100	25	0	0	0	125	4
EE440	Fundamentals of Signal Processing	3	1	0	4	3	100	25	25	0	0	150	4
EE450	Renewable Energy	3	0	0	3	3	100	25	0	0	0	125	3
EE460	Electrical Machines - II Lab	0	0	2	2	-	0	0	25	50	0	75	1
EE470	Analog Electronics Lab	0	0	2	2	-	0	0	25	50	0	75	1
HM003	Economics for Engineers	3	0	0	3	-	100	25	0	0	0	125	3
TOTAL		20	2	4	26	--	600	150	100	100	0	950	24

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THIRD YEAR: ELECTRICAL & ELECTRONICS ENGINEERING
SCHEME OF INSTRUCTION AND EXAMINATION REVISED COURSE 2019-2020
SEMESTER - V

Subject Code	Name of the Subject	Scheme of Instruction Hrs/Week				Scheme of Examination							Credit
		L	T	P	H	ThDuration (Hrs)	Marks						
							Th	S	TW*	P	O	Total	
EE510	Control Systems	3	1	0	4	3	100	25	0	0	0	125	4
EE520	Microprocessors	4	0	0	4	3	100	25	0	0	0	125	4
EE531	Digital Signal Processing	3	0	0	3	3	100	25	0	0	0	125	3
EE532	Illumination Engineering												
EE533	Electrical Machines Design												
EE534	Hybrid Vehicles												
EE541	Testing & Maintenance of Electrical Machines	3	0	0	3	3	100	25	0	0	0	125	3
EE542	Analog and Digital Communication												
EE543	Bio-Medical Instrumentation												
EE544	Electrical Energy Conservation & Auditing												
EE550	Control Systems Lab	0	0	2	2	-	0	0	25	50	0	75	1
EE560	Microprocessor Lab	0	0	2	2	-	0	0	25	50	0	75	1
**	Open Elective	3	0	0	3	3	100	25	0	0	0	125	3
HM004	Management & Organizational Behavior	3	0	0	3	3	100	25	0	0	0	125	3
TOTAL		19	1	4	24	--	600	150	50	100	0	900	22

Students to select ANY ONE subject from EE531, EE532, EE533 and EE534 as Professional elective I and ANY ONE subject from EE541, EE542, EE543 and EE544 as Professional elective II

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THIRD YEAR: ELECTRICAL & ELECTRONICS ENGINEERING
SCHEME OF INSTRUCTION AND EXAMINATION REVISED COURSE 2019-2020
SEMESTER - VI

Subject Code	Name of the Subject	Scheme of Instruction Hrs/Week				Scheme of Examination							Credit
		L	T	P	H	ThDuration (Hrs)	Marks						
							Th	S	TW*	P	O	Total	
EE610	Power System - I	3	1	0	4	3	100	25	25	0	0	150	4
EE620	Power Electronics	4	0	0	4	3	100	25	0	0	0	125	4
EE631	Smart Grid	3	0	0	3	3	100	25	0	0	0	125	3
EE632	Power Quality												
EE633	Digital Control System												
EE634	Artificial Neural Network & Fuzzy Logic												
EE641	Power System Protection	3	0	0	3	-	100	25	0	0	0	125	3
EE642	VLSI												
EE643	Electric Drives												
EE644	Operation Research												
EE650	Measurement & Instrumentation Lab	0	0	2	2	-	0	0	25	0	25	50	1
EE660	Power Electronics Lab	0	0	2	2	-	0	0	25	50	0	75	1
**	Open Elective	3	0	0	3	3	100	25	0	0	0	125	3
HM005	Entrepreneurship & Intellectual Property	3	0	0	3	3	100	25	0	0	0	125	3
TOTAL		19	1	4	24	--	600	150	75	50	25	900	22

Students to select ANY ONE subject from EE631, EE632, EE633 and EE634 as Professional elective III and ANY ONE subject from EE641, EE642, EE643 and EE644 as Professional elective IV

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FOURTH YEAR: ELECTRICAL & ELECTRONICS ENGINEERING**SCHEME OF INSTRUCTION AND EXAMINATION REVISED COURSE 2019-2020****SEMESTER - VII**

Subject Code	Name of the Subject	Scheme of Instruction Hrs/Week				Scheme of Examination							Credit
		L	T	P	H	ThDuration (Hrs)	Marks						
							Th	S	TW*	P	O	Total	
EE710	Power Systems - II	3	1	0	4	3	100	25	25	0	0	150	4
EE721	Flexible AC Transmission	3	0	0	3	3	100	25	0	0	0	125	3
EE722	Image Processing												
EE723	Distributed Generation & Microgrids												
EE724	PLC & Its Applications												
EE730	Power System Lab	0	0	2	2	--	0	0	25	0	25	50	1
**	Open Elective	3	0	0	3	3	100	25	0	0	0	125	3
EE740	Internship	0	0	6	6	-	0	0	50	0	50	100	3
EE750	Project Work - Phase I	0	0	6	6	-	0	0	50	0	75	125	3
TOTAL		9	1	14	24	--	300	75	150	0	150	675	17

Students to select ANY ONE subject from EE721, EE722, EE723 and EE724 as Professional elective V

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FOURTH YEAR: ELECTRICAL & ELECTRONICS ENGINEERING**SCHEME OF INSTRUCTION AND EXAMINATION REVISED COURSE 2019-2020****SEMESTER - VIII**

Subject Code	Name of the Subject	Scheme of Instruction Hrs/Week				Scheme of Examination							Credit
		L	T	P	H	ThDuration (Hrs)	Marks						
							Th	S	TW*	P	O	Total	
EE810	High Voltage Engineering	3	0	0	3	3	100	25	0	0	0	125	3
EE821	Embedded Systems	3	0	0	3	3	100	25	0	0	0	125	3
EE822	Power System Operation & Control												
EE823	Reliability of electrical system												
EE824	PV & Its Applications												
EE830	Elective - NPTEL / MOOC / SWAYAM	0	0	0	3	--	0	0	50	0	50	100	3
EE840	Project Work - Phase II	0	0	18	18	--	0	0	200	0	200	400	9
TOTAL		6	0	18	24	--	200	50	250	0	250	750	18

Students to select ANY ONE subject from EE821, EE822, EE823 and EE824 as Professional elective VI

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