

Curriculum Structure

EE Department

3rd Semester

Theory:

Sl. No.	Code	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EE301	Electric Circuit Theory	3	1	0	4	4
2	PC-EE302	Analog Electronics	3	0	0	3	3
3	PC-EE303	Electromagnetic field theory	3	0	0	3	3
4	ES-ME301	Engineering Mechanics	3	0	0	3	3
5	BS-M301	Mathematics-III	3	0	0	3	3
6	BS-EE301	Biology for Engineers	3	0	0	3	3
7	MC-EE301	Indian Constitution	3	0	0	3	0
		TOTAL OF SEMESTER:				22	19

Practical / Sessional:

Sl. No.	Code	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EE391	Electric Circuit Theory Laboratory	0	0	2	2	1
2	PC-EE392	Analog Electronics laboratory	0	0	2	2	1
3	PC-CS391	Numerical Methods laboratory	0	0	2	2	1
		Total of Practical/ Sessional				06	3
		TOTAL OF SEMESTER:				28	22

4th Semester

Theory:

Sl. No.	Code	Paper	Contact periods Per	Total Contact	Credits
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			week			Hrs	
			L	T	P		
1	PC-EE401	Electric machine-I	3	0	0	3	3
2	PC-EE402	Digital Electronic	3	0	0	3	3
3	PC-EE403	Electrical and Electronics Measurement	3	0	0	3	3
4	ES-EE401	Thermal Power Engineering	3	0	0	3	3
5	HM-EE401	Values and Ethics in profession	3	0	0	3	3
6	MC-EE401	Environmental Science	3	0	0	3	0
		TOTAL OF SEMESTER:				18	15

Practical / Sessional:

Sl. No.	Code	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EE491	Electric machine-I laboratory	0	0	2	2	1
2	PC-EE492	Digital electronics laboratory	0	0	2	2	1
3	PC-EE493	Electrical and electronic measurement laboratory	0	0	2	2	1
4	ES-ME491	Thermal power Engineering laboratory	0		2	2	1
		Total of Practical/ Sessional				08	4
		TOTAL OF SEMESTER:				26	19

5th Semester

Theory:

Sl. No.	Code	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EE501	Electric machine-II	3	0	0	3	3

2	PC-EE502	Power system-I	3	0	0	3	3
3	PC-EE503	Control system	3	0	0	3	3
4	PC-EE504	Power electronics	3	0	0	3	3
5	PE-EE501	A. Highvoltage Engineering B. Power Plant Engineering C. Renewable & Non conventional energy	3	0	0	3	3
6	OE-EE501	A. Data structure & algorithm B. Object oriented programming C. Computer organization & architecture	3	0	0	3	3
		TOTAL OF SEMESTER:				18	18

Practical / Sessional:

Sl. No.	Code	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EE591	Electric Machine-II laboratory	0	0	2	2	1
2	PC-EE592	Power system-I laboratory	0	0	2	2	1
3	PC-EE593	Control system laboratory	0	0	2	2	1
4	PC-EE594	Power Electronics laboratory	0	0	2	2	1
		Total of Practical/ Sessional				08	4
TOTAL OF SEMESTER:						26	22

6th Semester

Theory:

Sl. No.	Code	Paper	Contact periods Per	Total Contact	Credits
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			week			Hrs	
			L	T	P		
1	PC-EE601	Power System-II	3		0	3	3
2	PC-EE-602	Microprocessor & micro controller	3	0	0	3	3
3	PE-EE601	A. Digital control system B. HVDC transmission C. Electrical Machine Design	3	0	0	3	3
4	PE-EE602	A. Electrical and Hybrid vehicle B. Power quality & FACTS C. Industrial Electrical systems	3	0	0	3	3
5	OE-EE601	A. Digital Signal Processing B. Communication Engineering C. VLSI & Microelectronics	3	0	0	3	3
6	HM-EE601	Economics for Engineers	3	0	0	3	3
		TOTAL OF SEMESTER:				18	18

Practical / Sessional:

Sl. No.	Code	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EE691	Power system-II laboratory	0	0	2	2	1
2	PC-EE692	Microprocessor& Microcontroller laboratory	0	0	2	2	1
2	PC-EE681	Electrical & Electronic design laboratory	1	0	4	5	3
		Total of Practical/ Sessional				09	05

TOTAL OF SEMESTER:				27	23
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7th Semester

Theory:

Sl. No.	Code	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EE701	Electric Drive	3	0	0	3	3
2	PE-EE701	A. Control system Design B. Electrical Energy conservation & Auditing C. Power generation economics	3	0	0	3	3
3	OE-EE701	A. Artificial intelligence B. Internet of things C. Computer graphics	3	0	0	3	3
4	OE-EE702	A. Embedded system B. Digital image processing C. Computer network	3		0	3	3
5	HM-EE701	Principle of Management	3	0	0	3	3
		TOTAL OF SEMESTER:				15	15

Practical / Sessional:

Sl. No.	Code	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EE791	Electric Drive laboratory	0	0	2	2	1
2	PW-EE781	Project stage-I	0	0	4	4	2
3	PW-EE782	Seminar	0	0	0	0	1
		Total of Practical/ Sessional				06	04
		TOTAL OF SEMESTER:				21	19

8th Semester

Theory:

Sl. No.	Code	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PC-EE801	Utilization of Electric Power	3	0	0	3	3
2	PE-EE801	A. Line-commutated and active PWM rectifiers B. Power system dynamics & control C. Advanced Electric Drives D. Industrial Automation E. and Control	3	0	0	3	3
3	OE-EE801	A. Soft computing Techniques B. Biomedical Instrumentation. C. Introduction to Machine learning D. Sensors and Transducers	3	0	0	3	3
		TOTAL OF SEMESTER:				09	09

Practical / Sessional:

Sl. No.	Code	Paper	Contact periods Per week			Total Contact Hrs	Credits
			L	T	P		
1	PW-EE881	Project stage-II	0	0	16	16	8
		Total of Practical/ Sessional				16	08
		TOTAL OF SEMESTER:				25	17