



**CURRICULUM SCHEME
FOR
B.TECH. ELECTRICAL ENGINEERING
(W.E.F. 2022-23)**

2nd YEAR

SEMESTER-III

Scheme of Teaching & Examination of Bachelor of Technology III Semester B. Tech. (Electrical Engineering)										
Sr. No.	Course Code	Course Title	Hours per week			Credits	Maximum Marks			ESE
			L	T	P		Continuous Evaluation	End Sem Exam	Total	Duration (Hrs)
1	BSCEE301T	Engineering Mathematics-III	3	1	0	4	40	60	100	3
2	PCCEE301T	Linear Electric Circuits	3	1	0	4	40	60	100	3
3	PCCEE301P	Linear Electric Circuits Lab	0	0	2	1	25	25	50	-
4	PCCEE302T	Analog Electronics	3	0	0	3	40	60	100	3
5	PCCEE302P	Analog Electronics Lab	0	0	2	1	25	25	50	-
6	PCCEE303T	Electrical Measurement and Instrumentation	2	0	0	2	20	30	50	2
7	PCCEE303P	Electrical Measurement and Instrumentation Lab	0	0	2	1	25	25	50	-
8	PCCEE304P	Algorithms & Data Structures Lab	0	0	4	2	25	25	50	-
9	CCEE301T	Electric Vehicles & Mobility	1	0	0	0	25	-	25	-
10	MCEE301	Essence of Indian Traditional knowledge	2	0	0	0	50	-	50	-
11	PROJEE301	Practice School-I (Internship of 1-2 week)	-	-	-	1	During Summer Vacations after II Semester			
		TOTAL	14	2	10	19	315	310	625	



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2nd YEAR

SEMESTER-IV

Scheme of Teaching & Examination of Bachelor of Technology IV Semester B. Tech. (Electrical Engineering)

Sr. No.	Course Code	Course Title	Hours per week			Credits	Maximum Marks			ESE
			L	T	P		Continuous Evaluation	End Sem Exam	Total	Duration (Hrs)
1	PCCEE401T	Signal Processing	2	1	0	3	40	60	100	3
2	PCCEE402T	Digital Electronics & Microprocessor	3	0	0	3	40	60	100	3
3	PCCEE402P	Digital Electronics & Microprocessor Lab	0	0	2	1	25	25	50	-
4	PCCEE403T	Electrical Machines - I	3	1	0	4	40	60	100	3
5	PCCEE403P	Electrical Machines – I Lab	0	0	2	1	25	25	50	-
6	OEC	Open Elective - I	3	0	0	3	40	60	100	3
7	PCCEE404T	Elements of Electromagnetics	3	1	0	4	40	60	100	3
8	PCCEE405P	Electrical Drawing & Simulation Lab	0	0	2	1	25	25	50	-
9	PCCEE406P	Python Programming Lab	0	0	2	1	25	25	50	-
10	CCEE401P	Programming with IoT Boards	0	0	2	0	25	-	25	-
11	HSMCEE401P	Soft Skills-1	0	0	2	1	25	25	50	-
		TOTAL	14	3	12	22	350	425	775	



3rd YEAR

SEMESTER-V

Scheme of Teaching & Examination of Bachelor of Technology V Semester B. Tech. (Electrical Engineering)										
Sr. No.	Course Code	Course Title	Hours per week			Credits	Maximum Marks			ESE
			L	T	P		Continuous Evaluation	End Sem Exam	Total	Duration (Hrs)
1	PCCEE501T	Electrical Power System - I	2	1	0	3	40	60	100	3
2	PCCEE502T	Non Conventional Energy Sources	2	0	0	2	20	30	50	2
3	PCCEE503P	Embedded Systems Lab	0	0	2	1	25	25	50	-
4	PCCEE504T	Power Electronics	3	1	0	4	40	60	100	3
5	PCCEE504P	Power Electronics Lab	0	0	2	1	25	25	50	-
6	PCCEE505T	Electrical Machines - II	3	1	0	4	40	60	100	3
7	PCCEE505P	Electrical Machines – II Lab	0	0	2	1	25	25	50	-
8	PEC	Program Elective - I	3	0	0	3	40	60	100	3
9	HSMCEE501T	Economics and Finance for Engineers	2	0	0	2	20	30	50	2
10	OEC	Open Elective - II	3	0	0	3	40	60	100	3
11	CCEE501P	Interfacing with the Raspberry Pi	0	0	2	0	25	-	25	-
12	HSMCEE502P	Soft Skills-2	0	0	2	1	25	25	50	-
13	PROJEE501	Practice School-II (Internship of 2-3 week)	-	-	-	1	During Summer Vacations after IV Semester			
		TOTAL	18	3	10	26	365	460	825	

Program Elective –I

Sr. No.	Course Code	Course Title
1	PECEE501T	Utilization of Electrical Energy
2	PECEE502T	Industrial Instrumentation and Automation
3	PECEE503T	Electric Drives



3rd YEAR

SEMESTER-VI

Scheme of Teaching & Examination of Bachelor of Technology VI Semester B. Tech. (Electrical Engineering)

Sr. No.	Course Code	Course Title	Hours per week			Credits	Maximum Marks			ESE
			L	T	P		Continuous Evaluation	End Sem Exam	Total	Duration (Hrs)
1	PCCEE601T	Electrical Power System-II	2	1	0	3	40	60	100	3
2	PCCEE602T	Control System	3	1	0	4	40	60	100	3
3	PCCEE602P	Control System Lab	0	0	2	1	25	25	50	-
4	PEC	Program Elective - II	3	0	0	3	40	60	100	3
5	PEC	Program Elective-III	3	0	0	3	40	60	100	3
6	OEC	Open Elective-III	3	0	0	3	40	60	100	3
7	PCCEE603P	Electrical Engineering Workshop	0	0	2	1	25	25	50	-
8	CCEE601P	Web Designing	0	0	2	0	25	-	25	-
9	HSMCEE601P	Soft Skills-3	0	0	2	1	25	25	50	-
		TOTAL	14	2	8	19	300	375	675	

Program Elective – II

Sr. No.	Course Code	Course Title
1	PECEE601T	Renewable Energy & Green Building Entrepreneurship
2	PECEE602T	PLC & SCADA
3	PECEE603T	Motors and Motor Control Circuits

Program Elective – III

Sr. No.	Course Code	Course Title
1	PECEE604T	Solar Energy & Electrical System Design
2	PECEE605T	Advanced Industrial Automation
3	PECEE606T	Advanced Electric Drives

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4th YEAR

SEMESTER-VII

Scheme of Teaching & Examination of Bachelor of Technology VII Semester B. Tech. (Electrical Engineering)

Sr. No.	Course Code	Course Title	Hours per week			Credits	Maximum Marks			ESE
			L	T	P		Continuous Evaluation	End Sem Exam	Total	Duration (Hrs)
1	PCCEE701T	High Voltage Engineering	3	0	0	3	40	60	100	3
2	PCCEE701P	High Voltage Engineering Lab	0	0	2	1	25	25	50	-
3	PCCEE702P	Computer Applications in Power Systems Lab	0	0	2	1	25	25	50	-
4	PEC	Program Elective-IV	3	0	0	3	40	60	100	3
5	OEC	Open Elective-IV	3	0	0	3	40	60	100	3
6	HSMCEE701T	Entrepreneurship Development	2	0	0	2	20	30	50	2
7	PROJEE701	Practice School-III Evaluation (Internship of 4-6 weeks during Summer Vacations after VI Semester)	-	-	-	2	100	-	100	-
8	PROJEE702	Project - I	0	0	6	3	100	-	100	-
		TOTAL	11	0	10	18	390	260	650	

Program Elective – IV

Sr. No	Course Code	Course Title
1	PECEE701T	Electrical Installation Design
2	PECEE702T	Mechatronics
3	PECEE703T	Power Quality & FACTS



4th YEAR

SEMESTER-VIII

Scheme of Teaching & Examination of Bachelor of Technology VIII Semester B. Tech. (Electrical Engineering)										
Sr. No.	Course Code	Course Title	Hours per week			Credits	Maximum Marks			ESE
			L	T	P		Continuous Evaluation	End Sem Exam	Total	Duration (Hrs)
1	PCCEE801T	Switchgear and Protection	3	0	0	3	40	60	100	3
2	PCCEE801P	Switchgear and Protection Lab	0	0	2	1	25	25	50	-
3	PEC	Program Elective - V	3	0	0	3	40	60	100	3
4	PEC	Program Elective-VI	3	0	0	3	40	60	100	3
5	PROJEE801	Project-II/One Semester Industry Project / Incubation	0	0	12	6	100	100	200	-
		TOTAL	9	0	14	16	245	305	550	

Program Elective –V

Sr. No	Course Code	Course Title
1	PECEE801T	EHV Substation Design & Erection
2	PECEE802T	Fuzzy & Neural Applications
3	PECEE803T	Power System Dynamics and Control

Program Elective –VI

Sr. No	Course Code	Course Title
1	PECEE804T	HVDC Transmission System
2	PECEE805T	Applications of Artificial Intelligence in Electrical Engineering
3	PECEE806T	Smart Grid Technologies and its applications