

KIET GROUP OF INSTITUTIONS
(An Autonomous Institution, Affiliated to AKTU, Lucknow, UP)

Approved by AICTE, New Delhi

Delhi-NCR, Ghaziabad-Meerut Road, Ghaziabad-201206

Electrical and Electronics Engineering (EEE)

2nd Year

EVALUATION SCHEME

Effective from the Session: 2025-26

B.Tech 2nd Year (2024-2028 Batch)**B.Tech (EEE) 3rd Sem**

S No.	Course Category (AICTE)	Course Category (UGC)	BOS	Course Code	Course Name	Type	Academic Learning (AL)			Continuous Internal Examination (CIE)			End Sem Examination (ESE)	Total Marks	Total Credits
							L	T	P	MSE	CA	TOTAL			
1	PC	Major (Core)	EEE	EE106L	Signals & Systems	L	2	0	0	40	10	50	50	100	2
2	PC	Major (Core)	EEE	EE107L	Electrical Measurements and Data Acquisition	L	3	0	0	60	15	75	75	150	3
3	BS	Major (Core)	ASH	MA105L	Probability and Statistics	L	3	0	0	60	15	75	75	150	3
4	PC	Major (Core)	EEE	EE202L	Electrical Machine-I	L	3	0	0	60	15	75	75	150	3
5	PC	Major (Core)	EEE	EE108L	Analog Electronics	L	2	0	0	40	10	50	50	100	2
6	MC	Value Added	ASH	HS109L	Constitution of India	L	2	0	0	25	-	25	25	-	NC
7	HS	AEC	ASH	HS110L	Aptitude-1	L	1	0	0	-	25	25	25	50	1
8	HS	AEC	ASH	HS111L	Soft Skills Essential-1	L	1	0	0	-	25	25	25	-	NC
Blended															
9	ES	Major (Core)	ELCE	EL106B	Introduction to AI & ML	B	2	0	2	60	15	75	75	150	3
10	PE	Major (Core)/SEC	-	-	Professional Elective-I	B	3	0	2	80	20	100	100	200	4
Lab/Practical															
11	PC	Major (Core)	EEE	EE107P	Electrical Measurements and Data Acquisition Lab	P	0	0	2	-	25	25	25	50	1
12	PC	Major (Core)	EEE	EE202P	Electrical Machine-I Lab	P	0	0	2	-	25	25	25	50	1
13	PC	Major (Core)	EEE	EE108P	Analog Electronics Lab	P	0	0	2	-	25	25	25	50	1
14	PW	Summer internship	CSIT	IT105P	Social Internship Assessment	P	0	0	0	-	50	50	-	50	1
Total Hours : 32 hrs.							22	0	10					1250	25

B.Tech 2nd Year (2024-2028 Batch)**B. Tech (EEE) 4th Sem**

S No.	Course Category	Course Category (UGC)	BOS	Course Code	Course Name	Type	Academic Learning (AL)			Continuous Internal Examination (CIE)			End Sem Examination (ESE)	Total Marks	Total Credits
							L	T	P	MSE	CA	TOTAL			
1	PC	Major (Core)	EEE	EE203L	Electrical Machine-II	L	3	1	0	80	20	100	100	200	4
2	PC	Major (Core)	EEE	EE204L	Control Systems	L	3	0	0	60	15	75	75	150	3
3	PC	Major (Core)	EEE	EE109L	Network Analysis and Synthesis	L	3	1	0	80	20	100	100	200	4
4	ES	Major (Core)	EEE	EE110L	Data Base and Applications	L	2	0	0	40	10	50	50	100	2
5	MC	Value Added	HSS	HS112L	Universal Human Values-II	L	3	0	0	60	15	75	75	150	3
6	HS	AEC	ASH	HS113L	Aptitude-2	L	1	0	0	-	25	25	25	50	1
7	HS	AEC	ASH	HS114L	Soft Skills Essential 2	L	1	0	0	-	25	25	25	-	NC
Blended															
8	PE	Major (Core)/SEC	-	-	Professional Elective-II	B	3	0	2	80	20	100	100	200	4
Lab/Practical															
9	PC	Major (Core)	EEE	EE203P	Electrical Machine-II Lab	P	0	0	2	-	25	25	25	50	1
10	PC	Major (Core)	EEE	EE204P	Control Systems Lab	P	0	0	2	-	25	25	25	50	1
11	PC	Major (Core)	EEE	EE109P	Network Analysis and Synthesis Lab	P	0	0	2	-	25	25	25	50	1
12	ES	Major (Core)	EEE	EE110P	Data Base and Applications Lab	P	0	0	2	-	25	25	25	50	1
Total Hours : 31 hrs.							19	2	10					1250	25

Professional Electives (PE)

S.No.	Course Type (PE)	Basket-1 (AI and Data-Driven Smart Grid Technologies) Powered by: Tata Power DDL, Delhi	Basket-2 (Intelligent Electric Vehicle) Powered by: Imperial Society of Innovative Engineers and National Skill Development Corporation (NSDC)	Basket-3 (Next-Gen Automation: IIoT & Gateways) Powered by: Usha Automation, India and Phoenix Contact, Germany
1	BOS	ELCE	EEE	EEE
	PE I-(3 rd Sem)	Smart Grid Fundamentals and Applications (EL206E)	Modelling Dynamic Systems and Physical Components using MATLAB (EE205E)	Sensors & Automation Essentials (EE207E)
2	BOS	ELCE	EEE	EEE
	PE II-(4 th Sem)	AI and Machine Learning for Smart Grids (EL207E)	Integration of Systems of EVs (EE206E)	Integration of SCADA and PLC with IIOT Gateways (EE208E)

Honors Degree may be awarded by achieving extra 20 credits either by completing NPTEL Courses

Odd Semester

S No.	Name of the Course	Faculty	Institute	No. of weeks
1	Developing Soft Skills and Personality	Prof. T Ravichandran	IIT Kanpur	8 weeks
2	A Basic Course on Electric and Magnetic Circuits	Prof. Ashok Kumar Pradhan	IIT Kharagpur	12 weeks
3	Power Network Analysis	Prof. Abheejeet Mohapatra	IIT Kanpur	12 weeks
4	Advanced Distribution System Analysis and Operation	Prof. N. P. Padhy & Prof. Subho Paul	IIT Roorkee	12 weeks
5	Mathematical Methods and Techniques in Signal Processing	Prof. Shayan Srinivasa Garani	IISc Bangalore	12 weeks
6	Electronic Modules for Industrial App. using Op-Amps	Prof. Hardik Jeetendra Pandya	IISc Bangalore	8 weeks
7	Electronic Systems Design: Hands-on Circuits and PCB Design with CAD software	Prof. Ankur Gupta	IIT Delhi	12 weeks
8	Programming in Modern C++	Prof. Partha Pratim Das	IIT Kharagpur	12 weeks
9	Introduction to Algorithms and Analysis	Prof. Sourav Mukhopadhyay	IIT Kharagpur	12 weeks
10	Programming With Generative AI	Prof. Viraj Kumar	IISc Bangalore	8 weeks

Even Semester

S No.	Name of the Course	Faculty	Institute	No. of weeks
1	Emotional Intelligence	Prof. Rabindra Kumar Pradhan	IIT Kharagpur	8 weeks
2	Operation and Planning of Power Distribution Systems	Prof. Sanjib Ganguly	IIT Guwahati	12 weeks
3	Computer-Aided Design of Electrical Machines	Prof. Bhim Singh	IIT Delhi	12 weeks
4	Fuzzy Sets, Logic and Systems & Applications	Prof. Nishchal Kumar Verma	IIT Kanpur	12 weeks
5	Analog IC Design	Prof. Aniruddhan S & Prof. Nagendra Krishnapura	IIT Madras	12 weeks
6	Digital Electronic Circuits	Prof. Goutam Saha	IIT Kharagpur	12 weeks
7	Analog Circuits	Prof. Jayanta Mukherjee	IIT Bombay	8 weeks
8	Machine Learning for Engineering and science applications	Prof. Balaji Srinivasan & Prof. Ganapathy Krishnamurthi	IIT Madras	12 weeks
9	Fundamentals of Object Oriented Programming	Prof. Balasubramanian Raman	IIT Roorkee	12 weeks
10	Data Analytics with Python	Prof. A Ramesh	IIT Roorkee	12 weeks