

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 Computer Engineering (ELCE)

2nd Year

EVALUATION SCHEME

Effective from the Session: 2025-26

B.Tech 2nd Year (2024-2028 Batch)**B.Tech (ELCE) 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)	ELCE	EL101L	Basic System Analysis	L	2	0	0	40	10	50	50	100	2
2	PC	Major (Core)	ELCE	EL102L	Circuit Analysis and Networks	L	2	0	0	40	10	50	50	100	2
3	BS	Major (Core)	ASH	MA105L	Probability and Statistics	L	3	0	0	60	15	75	75	150	3
4	PC	Major (Core)	ELCE	EL104L	Electrical Machines	L	3	0	0	60	15	75	75	150	3
5	MC	Value Added	ASH	HS109L	Constitution of India	L	2	0	0	25	-	25	25	-	NC
6	HS	AEC	ASH	HS110L	Aptitude-1	L	1	0	0	-	25	25	25	50	1
7	HS	AEC	ASH	HS111L	Soft Skills Essential-1	L	1	0	0	-	25	25	25	-	NC
Blended															
8	ES	Major (Core)	ELCE	EL106B	Introduction to AI & ML	B	2	0	2	60	15	75	75	150	3
9	PC	Major (Core)	ELCE	EL201B	Advanced Data Structures and Applications	B	2	0	2	60	15	75	75	150	3
10	PC	Major (core)	ELCE	EL103B	Morden Instrumentation and Data Acquisition	B	1	0	2	40	10	50	50	100	2
11	PE	Major (Core)/SEC	-	-	Professional Elective-I	B	3	0	2	80	20	100	100	200	4
Lab/Practical															
12	PC	Major (core)	ELCE	EL104P	Electrical Machines Lab	P	0	0	2	-	25	25	25	50	1
13	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 (ELCE) 4th Sem**

Total Credits	Total Marks	End Sem Examination (ESE)	Continuous Internal Examination (CIE)			Academic Learning (AL)			Type	Course Name	Course Code	BOS	Course Category (UGC)	Course Category (AICTE)	S No.
	CIE+ ESE		MSE	CA	TOTAL	L	T	P							
3	150	75	75	15	60	0	0	3	L	Control Engineering	EL202L	ELCE	Major (Core)	PC	1
3	150	75	75	15	60	0	0	3	L	Electrical Power Systems	EL203L	ELCE	Major (Core)	PC	2
3	150	75	75	15	60	0	0	3	L	Universal Human Values	HS112L	ASH	Value Added	MC	3
1	50	25	25	25	-	0	0	1	L	Aptitude-2	HS113L	ASH	AEC	HS	4
NC	-	25	25	25	-	0	0	1	L	Soft Skills Essential 2	HS114L	ASH	AEC	HS	5
Blended															
3	150	75	75	15	60	2	2	0	B	Data Analytics	IT202B	CSIT	Major (Core)	PC	6
3	150	75	75	15	60	2	2	0	B	Object-Oriented Programming using C++	EL204B	ELCE	Major (Core)	PC	7
3	150	75	75	15	60	2	2	0	B	Database Management and Operating Systems for Engineers	EL205B	ELCE	Major (Core)	PC	8
4	200	100	100	20	80	2	0	3	B	Professional Elective-II	-	-	Major (Core)/SEC	PE	9
Lab/Practical															
1	50	25	25	25	-	2	0	0	P	Control Engineering Lab	EL202P	ELCE	Major (Core)	PC	10
1	50	25	25	25	-	2	0	0	P	Electrical Power Systems Lab	EL203P	ELCE	Major (Core)	PC	11
25	1250					12	0	20				Total Hours : 32 hrs.			

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	Basket-4 Bio-Medical Electronics	Basket-5 VLSI Design
1	BOS	ELCE	EEE	EEE	ECE	ECE
	PE I-(3 rd Sem)	Smart Grid Fundamentals and Applications (EL206E)	Modelling Dynamic Systems and Physical Components using MATLAB (EE205E)	Sensors & Automation Essentials (EE207E)	Biology For Engineers (EC210E)	Digital Integrated Circuit Design (EC212E)
2	BOS	ELCE	EEE	EEE	ECE	ECE
	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)	Bio-Medical Electronics & Devices (EC211E)	Analog Integrated Circuit Design (EC213E)