

GALGOTIAS UNIVERSITY
Department of Electrical, Electronics and Communication Engineering
PROGRAM STRUCTURE (2025-2027)

Curriculum Structure of M.Tech. in Power System Engineering

Semester 1																
Sl. No	Name of the Course	Course Code	L	T	P	S	C	IA 1	MT E	IA 2	La b	Lab Exam	Course Based Project	Total CIE marks	ET E	COURSE TYPE
1	Advanced Numerical & Statistical Methods	C1PC120T	3	1	0		4	25	50	25				100	100	THEORY
2	Analysis of Power Electronics Circuits	G2PI103B	3	0	1		4		50		25	25		100	100	INT
3	Power System Operation and Control	G2PI101T	3	0	0		3	25	50	25				100	100	THEORY
4	Advanced Power System Analysis	G2PI104C	3	0	1	1	5		50		25		25	100	100	COMP
5	FACTS and HVDC	G2PI102T	3	0	0		3	25	50	25				100	100	THEORY
6	Professional and Communication Skills	CENG5001	0	0	4		2		50		25	25		100		INT
7	Foundations of Research Inclined Design Thinking (RIDT)	G2PH107T	1	0	0	0	1	25	50	25				100	100	THEORY
					Total		21									

Semester 2																
Sl. No	Name of the Course	Course Code	L	T	P	S	C	IA 1	MT E	IA 2	La b	Lab Exam	Course Based Project	Total CIE marks	ET E	COURSE TYPE
1	Advanced Power System Protection	MPSE1601	3	0	0		3	25	50	25				100	100	THEORY
2	Power Electronics Applications in Renewable Energy Systems	MPSE1504	3	0	1		4		50		25	25		100	100	INT
3	Power Quality	MPSE1606	3	0	1	1	5		50		25		25	100	100	COMP
4	Electric and Hybrid Vehicles	MPSE2506	3	0	0		3	25	50	25				100	100	THEORY
5	Power System Dynamics and Stability	MPSE2502	3	0	0		3	25	50	25				100	100	THEORY
6	Applications of Research Inclined Design Thinking (RIDT)	*****	1	0	0		1	25	50	25				100	100	THEORY

Total 20
1

Semester 3																
Sl. No	Name of the Course	Course Code	L	T	P	S	C	IA 1	MT E	IA 2	La b	Lab Exam	Course Based Project	Total CIE marks	ET E	COURSE TYPE
1	Program Elective-1	*****	3	0	0		3	25	50	25				100	100	THEORY
2	Program Elective-2	*****	3	0	0		3	25	50	25				100	100	THEORY

3	Capstone Design-I	MPSE9998	0	0	20		13							100	100	100	Project
4	Specialized Topics in Research Centric Design Thinking	*****	1	0	0	0	1	25	50	25					100	100	THEORY

Total
1 **20**

Semester 4																
Sl. No	Name of the Course	Course Code	L	T	P	S	C	IA 1	MT E	IA 2	La b	Lab Exam	Course Based Project	Total CIE marks	ET E	COURSE TYPE
1	Capstone Design-II	MPSE9999	0	0	30		19						100	100	100	Project
2	Capstone Project and Research Dissemination	*****	0	0	0	1	1									
					Total		20									

Semeters	Credit
Semeters-1	21
Semeters-2	20
Semeters-3	20
Semeters-4	20
Total	81