



SCHOOL OF ENGINEERING & TECHNOLOGY
PG PROGRAM: M Tech in Electrical Engineering

Course Structure

SEMESTER I								
Sl. No	Type	Course code	Course Title	L	T	P	Contact Hrs/wk	Credits
2	Theory	EEE61101	Power System analysis and Operation	3	1	0	4	4.0
3	Theory	EEE61103	Advanced Control Theory	3	1	0	4	4.0
4	Theory		Elective I	3	0	0	3	3.0
5	Theory		Elective II	3	0	0	3	3.0
3	Theory		Elective III	3	0	0	3	3.0
6	Practical	EEE61201	Power System Lab-I	0	0	3	3	2
7	Practical	EEE61203	Advanced control Lab	0	0	3	3	2
8	Seminar	EEE61301	Seminar-I					2
			Total	15	2	6	23	23

SEMESTER II								
Sl. No	Type	Course code	Course Title	L	T	P	Contact Hrs/wk	Credits
1	Theory	EEE61102	Power System Dynamics and Control	3	1	0	4	4.0
2	Theory	EEE61104	Power electronics in power system	3	1	0	4	4.0
4	Theory		FACTS	3	0	0	3	3.0
5	Theory		Elective IV	3	0	0	3	3.0
6	Theory		Elective V	3	0	0	3	3.0
7	Practical	EEE61202	Power Electronics Lab	0	0	3	3	2
8	Practical		Power System Lab-II	0	0	3	3	2
9	Seminar	EEE61302	Seminar-II					2
			Total	18	2	6	23	23

Total Credit (First Year): 46

SEMESTER III								
Sl. No	Type	Course code	Course Title	L	T	P	Contact Hrs/wk	Credits
1	Dissertation	EEE62401	Thesis Part I	0	0	21	21	14.0
2	Seminar	EEE62301	Seminar and Technical Writing I					4.0
Total				0	0	0	21	18

SEMESTER IV								
Sl. No	Type	Course code	Course Title	L	T	P	Contact Hrs/wk	Credits
1	Dissertation	EEE62402	Thesis Part II	0	0	21	21	14.0
2	Seminar	EEE62302	Seminar and Technical Writing II					4.0
3	Sessional	EEE62502	Grand Viva					4.0
Total				0	0	0	21	22

Total Credit (Second Year): 40

Total Credit (over two years): 86



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List of Core Subjects (M Tech in Electrical Engineering):

1. Power System analysis and Operation
2. Advanced Control Theory
3. FACTS
4. Power System Dynamics and Control
5. Power electronics in power system

List of Elective Subjects (M Tech in EEE):

1. Energy management and environment
1. Power Systems Transients and Protection (3-1-0)
2. EHV AC transmission (3-10)
3. Electrical Distribution System (3-1-0)
4. High Voltage Direct Current (HVDC) Transmission (3-1-0)
5. Renewable Energy Resources (3-1-0)
6. Industrial Instrumentation (3-1-0)
7. Power System Transients and Protection (3-1-0)



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