

Department of Electrical Engineering
Curriculum for M Tech in High Voltage Engineering (EEE)

Semester 1

Sl. No	Code	Title	L	T	P/S	C
1	MA6003	Mathematical Methods for Power Engineering	3	0	-	3
2	EE6501	High Voltage Engineering	3	0	-	3
3	EE6503	Power System Transients	3	0	-	3
4	EE6301	Power Electronics Circuits	3	0	-	3
5		Elective -1 *	3	0	-	3
6		Elective -2	3	0	-	3
7	EE6591	High Voltage Lab	-	-	3	2
		Total Credits	18	0	3	20

Semester 2

Sl. No	Code	Title	L	T	P/S	C
1	EE6504	Physics of Dielectrics	3	0	-	3
2	EE6502	Computational Electromagnetics	3	0	-	3
3	EE6506	EHV Power Transmission	3	0	-	3
4		Elective -1 *	3	0	-	3
5		Elective -2	3	0	-	3
6		Elective -3	3	0	-	3
7	EE6592	Mini Project			3	1
8	EE6594	Seminar			3	1
		Total Credits	18	0	3	20

Semester 3

Sl. No	Code	Title	L	T	P/S	C
1	EE7591	Main Project -1	0	0	16	8
Total credits			0	0	16	8

Semester 4

Sl. No	Code	Title	L	T	P/S	C
1	EE7592	Main Project -2	0	0	24	12
Total credits			0	0	24	12

Minimum Requirements for M Tech Degree: 60 credits

LIST OF ELECTIVES: HIGH VOLTAGE ENGINEERING

Sl. No	Code	Title	C
1	EE6201	Computer Methods in Power Systems	3
2	EE6222	Power Quality	3
3	EE6308	FACTS and Custom Power	3
4	EE 6505	HVDC Transmission	3
5	EE6426	Distribution Systems Management & Automation	3
6	EE6122	Biomedical Instrumentation	3
7	EE6103	Applied Instrumentation	3
8	EE6428	SCADA Systems & Applications	3
9	EE6129	Artificial Neural Networks and Fuzzy Systems	3
10	EE6304	Advanced Digital Signal Processing	3
11	EE6323	Digital Simulation of Power Electronic Systems	3
12	EE6422	Engineering Optimization	3
13	NS6101	Structure of Nanomaterials	3
14	NS6112	Experimental Techniques in Nanotechnology	3
15	NS6124	Computational Nanotechnology	3
16	EE6121	Data Acquisition and Signal Conditioning	3
17	EE6221	Distributed Generation	3
18	EE6302	Advanced Power Electronic Circuits	3
19	EE6508	High Voltage Testing Techniques	3
20	EE6507	High Voltage Power Transformers and Circuit Breakers	3
21	EE6204	Digital Protection of Power Systems	3
22	EE6509	Electromagnetic Interference and Compatibility	3
23	EE6510	Pulsed Power Engineering	3
24	EE6401	Energy Auditing & Management	3

*Electives: Any other subject offered in the Institute with approval from the Programme Coordinator can also be credited. List of Electives offered in each semester will be announced by the Dept.