

## EE M.Tech Curriculum

Course No.	Course Title	Contact Hour			Credit	Prerequisite
		L	T	P		
<b>Semester-I</b>						
EE501	Core Course-I	3	0	0	3	
	<b>Power System Interconnection &amp; Control</b>					
EE503	Core Course-II	3	0	0	3	
	<b>Advance Power Converter</b>					
MA701	Core Course-III (Math course)	3	0	0	3	
	<b>Advanced Engineering Mathematics</b>					
EE5XX	Elective Course-I	3	0	0	3	
EE5XX	Elective Course-II	3	0	0	3	
EE551	Core course Lab	0	0	2	1	
	<b>Power System Interconnection &amp; Control Lab</b>					
EE5XX	Elective course Lab	0	0	2	1	
	<b>Any one Lab corresponds to Elective Course-I</b>					
EE555	Computing Lab <b>Soft Computing Lab</b>	0	0	2	1	
EE505	Seminar & Technical report writing	0	0	2	1	
		15	0	8		
		23			19	
<b>List of Elective Courses for 1st Semester</b>						
Course No.	Course Title	Contact Hour			Credit	Prerequisite
		L	T	P		
Elective Course-I (with Lab)						
EE511	Advanced Relaying & Protection	3	0	0	3	
EE513	Smart Grid Technology	3	0	0	3	
EE515	Synchrophasor Technology	3	0	0	3	
EE517	Non-Linear Systems & Chaos	3	0	0	3	
Elective Course-II						
EE519	Power System Dynamics	3	0	0	3	
EE521	Instrumentation & Control in Energy Systems	3	0	0	3	
EE523	FACTS Controller	3	0	0	3	
Course No.	Course Title	Contact Hour			Credit	Prerequisite
		L	T	P		
<b>Semester-II</b>						
EE502	Core Course-IV	3	0	0	3	
	<b>Computer Aided Power Systems</b>					
EE504	Core Course-V	3	0	0	3	
	<b>Renewable &amp; Distributed Energy Systems</b>					
EE5XX	Elective Course-III	3	0	0	3	

EE5XX	Elective Course-IV	3	0	0	3	
EE552	Core course Lab	0	0	2	1	
	<b>Computer Aided Power System Lab</b>					
EE5XX	Elective course Lab	0	0	2	1	
	<b>Any one Lab corresponds to Elective Course-III</b>					
EE556	Computing Lab <b>Optimization Technique Lab</b>	0	0	2	1	
EE506	Seminar & Technical report writing	0	0	2	1	
EE508	Review work for project	0	0	4	2	
		12	0	12		
		24			18	
Non Credit Compulsory Course: Internship/Mini Project						
<b>List of Elective Courses for 2nd Semester</b>						
Course No.	Course Title	Contact Hour			Credit	Prerequisite
		L	T	P		
Elective Course-III (With Lab)						
EE510	Advanced Control System	3	0	0	3	
EE512	Advanced DSP	3	0	0	3	
EE514	Power Quality Assessment & Remedial Measures	3	0	0	3	
Elective Course-IV						
EE516	Restructured Power System	3	0	0	3	
EE518	Power System Reliability	3	0	0	3	
EE520	Power System Transients	3	0	0	3	
<b>Semester-III</b>						
EE603	Technical Report and presentation on mini project/internship work	0	0	4	2	
EE601	Project-I	0	0	22	11	
		0	0	26	13	
		26			13	
<b>Semester-IV</b>						
EE602	Project-II	0	0	28	14	
		0	0	28	14	
		28			14	