M.Tech. in Electrical Engineering

Semester I			
Code	**Course Name**	**L-T-P**	**Credits**
EE6xx	Core Course	3-0-0	3
EE6xx	Core Course	3-0-0	3
EE6xx	Elective Course	3-0-0	3
EE6xx	Elective Course	3-0-0	3
EE6xx	Core Laboratory	0-0-3	2
			14
Semester II			
Code	**Course Name**	**L-T-P**	**Credits**
EE6xx	Core Course	3-0-0	3
EE6xx	Core Course	3-0-0	3
EE6xx	Elective Course	3-0-0	3
EE6xx	Elective Course	3-0-0	3
EE6xx	Core Laboratory	0-0-3	2
HSS	HSS Course	3-0-0	3
			17
Semester III			
Code	**Course Name**	**L-T-P**	**Credits**
EEP600	M.Tech. Project I[#]	0-0-20	20
Semester IV			
Code	**Course Name**	**L-T-P**	**Credits**
EEP601	M.Tech. Project II	0-0-20	20

Starts in the summer term

The outcome of the M.Tech. project work can be published in reputed journals/conferences or can be patented. The candidate has to submit a report and take a viva voce examination. If required, one external member may be invited to evaluate the report and viva voce exam/presentation.

Core and Elective courses:

This list will be revised from time to time to reflect the latest trends in the area.

Core Courses for EE GATE stream		Core Courses for EC GATE stream	
EE610	Power Systems Dynamics and Control	EE638	System Design using HDL
EE611	Modelling and Analysis of Electrical Machines	EE621	Advance Digital Signal Processing
EE612	Insulation in Power Apparatus and System	EE639	Embedded System Design
EE613	Power Electronic Converters	EE635	Digital Integrated Circuit Design
EE603	Power and Control Laboratory	EE629	Advanced Digital Signal Processing Laboratory
EE614	Power Electronics Laboratory	EE660	VLSI Design Laboratory

Elective Courses for EE GATE stream		Elective Courses for EC GATE stream	
EE640	Electrical Discharge Plasma Technology: Basic Concepts & Applications	EE604	Applied Linear Algebra
EE604	Applied Linear Algebra	EE607	AI and Machine Learning
EE622	Electromagnetic Compatibility	EE624	Image Signal Processing
EE615	Control of Electric Drives	EE627	Wireless Communication
EE616	Power Electronics for Renewable Energy	EE630	Introduction to Photonic Integrated Circuits
EE619	FACTS and HVDC	EE631	Sensors and Actuators: Fabrication and Applications
EE639	Embedded System Design	EE632	Analog Integrated Circuit Design
		EE633	VLSI Technology
		EE634	Circuits and Systems for Communication
		EE628	Random Variables and Stochastic Processes
		EE637	VLSI CMOS Subsystem Design

*Students can choose courses outside this list as electives in consultation with their advisors.