

Revised Curriculum for M. Tech. Power Systems

SEMESTER I

Code	Course of study	L	T	P	C
MA603	Optimization Techniques	3	0	0	3
EE601	Advanced Power System Analysis	3	0	0	3
EE603	Power System Stability	3	0	0	3
	Elective I	3	0	0	3
	Elective II	3	0	0	3
	Elective III	3	0	0	3

SEMESTER II

Code	Course of study	L	T	P	C
EE602	Power System Operation and Control	3	0	0	3
EE604	High Voltage DC Transmission	3	0	0	3
EE606	Flexible AC Transmission Systems	3	0	0	3
	Elective IV	3	0	0	3
	Elective V	3	0	0	3
	Elective VI	3	0	0	3
EE608	Power System Simulation Lab	0	0	3	2

SEMESTER III

Code	Course of study	L	T	P	C
MA647	Project Work	0	0	24	12

SEMESTER IV

Code	Course of study	L	T	P	C
EE648	Project Work	0	0	24	12

ELECTIVES

Code	Course of study	L	T	P	C
EE 611	Power Conversion Techniques*	3	0	0	3
EE612	Industrial Control Electronics	3	0	0	3
EE613	System Theory	3	0	0	3
EE614	Analysis and Design of Artificial Neural Networks	3	0	0	3
EE615	Advanced Digital Signal Processing	3	0	0	3
EE616	Digital System Design	3	0	0	3
EE617	Power Electronic Drives	3	0	0	3
EE618	Digital Controllers in Power Electronics Applications	3	0	0	3
EE619	Computer Networking	3	0	0	3
EE620	Electrical Distribution Systems	3	0	0	3
EE621	Fuzzy Systems	3	0	0	3
EE622	Transient Over Voltages In Power Systems	3	0	0	3
EE623	Stochastic Models And Applications	3	0	0	3
EE624	Renewable Power Generation Technologies	3	0	0	3
EE625	Power System Planning And Reliability	3	0	0	3

Department of EEE, NITT

EE626	Advanced Power System Protection	3	0	0	3
EE627	Modeling And Analysis Of Electrical Machines	3	0	0	3
EE628	Power Quality	3	0	0	3
EE629	Microcontroller Applications in Power Converters	3	0	0	3
EE630	Power System Restructuring and Pricing	3	0	0	3
EE631	Computer Relaying And Wide Area Measurement Systems	3	0	0	3
EE632	Advanced DSP Architecture And Programming	3	0	0	3
EE633	Swarm Intelligent Techniques	3	0	0	3
EE634	Smart Grid Technologies	3	0	0	3
EE635	Electric Systems in Wind Energy	3	0	0	3
EE636	Embedded Processors and Controllers	3	0	0	3
EE637	Distributed Generation and Micro-grids	3	0	0	3
EE638	Control Design Techniques for Power Electronic Systems	3	0	0	3
EE639	Energy Auditing and Management	3	0	0	3
EE640	Electric and Hybrid Vehicles	3	0	0	3

* will be offered as an Essential Elective for the benefit of M.Tech. (Power Systems) students