

**M.Tech. & Ph.D. Courses**  
in  
**DEPARTMENT OF ELECTRICAL ENGINEERING**

**M. Tech. (Electrical Energy System)**

**Program Core Courses**

TEE 531	Distributed Generation	3(3-0-0)
TEE 532	Digital Power System Protection	3(3-0-0)
TEE 533	Renewable Energy Systems and Applications	3(3-0-0)
TEE 534	Modelling and Analysis of Electrical Machines	3(3-0-0)
TEE 545	Power and Energy Lab	2(0-0-2)
TEE 546	Energy Systems Simulation Lab	2(0-0-2)

**Seminar**

TEE 688	Master's Seminar I	1
TEE 689	Master's Seminar II	1

**Program Electives**

19

- I. Will be taken from the list of post graduate courses of Electrical Engineering/other departments of College of Technology and Department of Mathematics, Statistics and Computer Science, CBSH as per recommendation of the advisory committee (500/600 series).
- II. A relevant course of 3 credits can be taken from the MOOC courses available on SWAYAM portal in lieu of listed programme electives.

**Common Courses**

BHS 611	Library and Information Services	1(1-1-0)
TEC/TIP/ TIT 649	Research Methodology and IPR	2(2-0-0)

**Research**

TEE 690	Master's Thesis Research	30
<b>Total</b>		<b>70</b>

**Ph.D. (Electrical Engineering)**

**Program Core Courses**

Courses as advised by advisory committee from the list of post graduate courses of Electrical Engineering, 700 series 9

**Seminar**

TEE 788	Doctoral Seminar I	1
TEE 789	Doctoral Seminar II	1

**Supporting Courses**

BHS 652	Research Methodology I	1(1-0-0)
BPS 653	Research Methodology II	3(2-0-1)
BHS 654	Research and Publication Ethics	2(1-0-1)

**Research**

TEE 790	Ph.D. Thesis Research	84
---------	-----------------------	----

**Total** 101

**List of the Post Graduate Courses**

TEE 531	Distributed Generation	3(3-0-0)
TEE 532	Digital Power System Protection	3(3-0-0)
TEE 533	Renewable Energy Systems and Applications	3(3-0-0)
TEE 534	Modelling and Analysis of Electrical Machines	3(3-0-0)
TEE 545	Power and Energy Lab	2(0-0-2)

TEE 546	Energy Systems Simulation Lab	2(0-0-2)
TEE 629	Power System Stability and Control	3(3-0-0)
TEE 630	Advanced High Voltage Engineering	3(3-0-0)
TEE 632	FACTS and Custom Power Devices	3(3-0-0)
TEE 633	Artificial Intelligence and Soft Computing Techniques	3(3-0-0)
TEE 635	Electric and Hybrid Vehicles	3(3-0-0)
TEE 636	Power Quality	3(3-0-0)
TEE 637	Advanced Power System Analysis	3(3-0-0)
TEE 638	Power System Transients	3(3-0-0)
TEE 639	SCADA System And Applications	3(3-0-0)
TEE 640	Power Apparatus Design	3(3-0-0)
TEE 641	Intelligent Control	3(3-0-0)
TEE 645	Electrical Machines and Drive System	3(3-0-0)
TEE 647	Nonlinear and Digital Control	3(3-0-0)
TEE 654	Computer Methods in Power Systems	3(3-1-0)
TEE 674	Extra High Voltage Direct Current Transmission	3(3-0-0)
TEE 686	Advanced Topics in Electrical Energy System	3(3-0-0)
TEE 687	Master's Special Problem	1 or 2
TEE 688	Master's Seminar I	1
TEE 689	Master's Seminar II	1
TEE 690	Master's Thesis Research	30
TEE 731	High Power Converters	3(3-0-0)
TEE 734	Smart Grids	3(3-0-0)
TEE 742	Optimal and Adaptive Control	3(3-0-0)
TEE 746	Special Electrical Machines	3(3-0-0)
TEE 748	Energy Management	3(3-0-0)
TEE 787	Doctoral Special Problem	1 or 2
TEE 788	Doctoral Seminar I	1
TEE 789	Doctoral Seminar II	1
TEE 790	Ph.D. Thesis Research	84