



KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING MINOR DOMAIN: POWER SYSTEMS AND POWER ELECTRONICS IN ELECTRICAL ENGINEERING (MEE) - MINOR DOMAIN: POWER SYSTEMS AND POWER ELECTRONICS CURRICULUM (Through NPTEL Domain certification)
--

S.No	Course Type	Course Code	Course Name (NPTEL Course Id)	Course Duration (weeks)	Credits
-	Core Courses	Core Courses (any 4 courses)			
1		U18MDEE1001	Basic Electrical Circuits/Network Analysis	8-12	8-12
2		U18MDEE1002	Electrical Machines-I	8-12	
3		U18MDEE1003	Electrical Machines-II	8-12	
4		U18MDEE1004	Power Systems Engineering	8-12	
5		U18MDEE1005	Fundamentals of Power Electronics	8-12	
6		U18MDEE1006	Power Electronics with Wide Band Gap Devices	8-12	
-	Elective Courses	Elective Courses (any 2 courses)			
7		U18MDEE1007	Control Engineering	8-12	4-6
8		U18MDEE1008	Electrical Measurement and Electronic Instruments	8-12	
9		U18MDEE1009	Fundamentals of Electric Drives	8-12	
10		U18MDEE1010	A Basic Course on Electric and Magnetic Circuits	8-12	
11	U18MDEE1011	Power System Protection	8-12		
12		U18MDEE1012	Smart Grid: Basics to Advanced Technologies	8-12	
13		U18MDEE1013	Power Quality	8-12	
14		U18MDEE1014	Design of Electric Motor	8-12	
-	Laboratory Courses	Laboratory Courses (any 2 courses)			
16		U18MDEE1015	Electrical Circuits & Simulation Lab	2	2
17		U18MDEE1016	Electrical Machines Lab	2	
18		U18MDEE1017	Power Systems Lab	2	
19		U18MDEE1018	Power Electronics & Drives	2	
20	Mini-project (Optional)	U18MDEE1019	Mini project (Optional)		2
Total Credits					18