

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 (any 4 courses)			
1		U24MDEE1001	Basic Electrical Circuits/Network Analysis	8-12	
2	Core Courses	U24MDEE1002	Electrical Machines-I	8-12	8-12
3		U24MDEE1003	Electrical Machines-II	8-12	
4		U24MDEE1004	Power Systems Engineering	8-12	
5]	U24MDEE1005	Fundamentals of Power Electronics	8-12	
6		U24MDEE1006	Power Electronics with Wide Band Gap Devices	8-12	
_		Elective Courses (any 2 courses)			
7	Elective	U24MDEE1007	Control Engineering	8-12	
8	Courses	U24MDEE1008	Electrical Measurement and Electronic	8-12	4-6
		CZIVIE	Instruments		
9		U24MDEE1009	Fundamentals of Electric Drives	8-12	
10		U24MDEE1010	A Basic Course on Electric and Magnetic Circuits	8-12	
11		U24MDEE1011	Power System Protection	8-12	
12		U24MDEE1012	Smart Grid: Basics to Advanced Technologies	8-12	
13		U24MDEE1013	Power Quality	8-12	
14		U24MDEE1014	Design of Electric Motor	8-12	
-		Laboratory Courses (any 2 courses)			
16	Laboratory	U24MDEE1015	Electrical Circuits & Simulation Lab	2	
17	Courses	U24MDEE1016	Electrical Machines Lab	2	
18]	U24MDEE1017	Power Systems Lab	2	2
19]	U24MDEE1018	Power Electronics & Drives Lab	2	
20	Mini-	U24MDEE1019	Mini-project (Optional)		2
	project				
	(Optional)				
Total Credits					18