

**Koneru Lakshmaiah Education Foundation**  
**Department of Electrical & Electronics Engineering**  
**M.Tech - Power Electronics and Drives**

Sl No	Course Code	Course Title	Category	L	T	P	S	Cr	CH	Pre-requisite
1	21EE5111	Modeling and Analysis of Electrical Machines	PC	3	1	0	0	4	4	Nil
2	21EE5112	Analysis of Power Converters	PC	3	1	2	0	5	6	Nil
3	21EE5113	Power Electronic Control Of Drives	PC	3	0	2	0	4	5	Nil
4	21EE5114	Modern Control Theory	PC	3	1	0	0	4	4	Nil
5	21EE5211	Switched Mode Power Supplies	PC	3	1	2	0	5	6	Nil
6	21EE5212	Advanced Electrical Drives	PC	3	1	0	0	4	4	Nil
7	21EE5213	Electric Vehicle Technology	PC	3	1	0	0	4	4	Nil
8	21EE5214	Smart Grids Technologies	PC	3	1	0	0	4	4	Nil
9		Elective-1	PE	3	0	0	0	3	3	Nil
10		Elective-2	PE	3	0	0	0	3	3	Nil
11		Elective-3	PE	3	0	0	0	3	3	Nil
12		Elective-4	PE	3	0	0	0	3	3	Nil
13	21IE5149	Seminar	PR	0	0	4	0	2	4	Nil
14	21IE5250	Term Paper	PR	0	0	4	0	2	4	Nil
15	21IE6150	Dissertation	PR	0	0	36	0	18	36	Nil
16	21IE6250	Dissertation	PR	0	0	36	0	18	36	Nil
<b>Grand Total Credits</b>								<b>86</b>		
<b>Elective – 1</b>										
1	21EE51A1	Soft Computing Techniques	PE-1	3	0	0	0	3	3	Nil
2	21EE51A2	Distributed generation systems	PE-1	3	0	0	0	3	3	Nil
3	21EE51S3	Floating Solar and off shore wind technologies	PE-1	3	0	0	0	3	3	Nil
<b>Elective – 2</b>										
4	21EE51B1	Green Building and Energy systems	PE-2	3	0	0	0	3	3	Nil
5	21EE51B2	Digital Signal Processors and Applications	PE-2	3	0	0	0	3	3	Nil
6	21EE51B3	Optimization Techniques	PE-2	3	0	0	0	3	3	Nil
<b>Elective – 3</b>										
7	21EE52C1	FACTS	PE-3	3	0	0	0	3	3	Nil
8	21EE52N2	Energy Storage Systems	PE-3	3	0	0	0	3	3	Nil
9	21EE52N3	Grid integration of Renewable energy systems	PE-3	3	0	0	0	3	3	Nil

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Elective – 4											
10	21EE52E1	Charging Technology for Electric Vehicles	PE-4	3	0	0	0	0	3	3	Nil
11	21EE52E2	Battery Management Systems for Electric Vehicle	PE-4	3	0	0	0	0	3	3	Nil
12	21EE52D2	Power Quality	PE-4	3	0	0	0	0	3	3	Nil

  
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