

Department of Electrical Engineering

NEP courses for the batch admitted from AY 2024-25

Details of Departmental Compulsary (DC) Courses

Departmental Compulsary (DC) Courses					
S. No.	Course Code	Course Name	L-T-P	Credit	Course Type
1	NEEC501	Advanced control system	3-1-0	4	Theory
2	NEEC502	Power system analysis	3-1-0	4	Theory
3	NEEC503	HVDC transmission and FACTS	3-1-0	4	Theory
4	NEEC504	Advanced power system lab	0-0-3	1.5	Practical
5	NEEC505	Advanced electrical machine lab	0-0-3	1.5	Practical
6	NEEC506	Advanced control system lab	0-0-3	1.5	Practical
7	NEEC507	Smart grid technology	3-1-0	4	Theory
8	NEEC508	Soft computing techniques	3-1-0	4	Theory
9	NEEC509	Advanced power system protection	3-1-0	4	Theory
10	NEEC510	Electromagnetic compatibility of power converters	3-1-0	4	Theory
11	NEEC511	Digital control of power electronics and drives	3-1-0	4	Theory
12	NEEC512	Electric and hybrid electric vehicles	3-1-0	4	Theory
13	NEEC513	Advanced power system protection lab	0-0-3	1.5	Practical
14	NEEC514	Modelling of electrical machines	3-1-0	4	Theory
15	NEEC515	Converter controlled machine drives	3-1-0	4	Theory
16	NEEC516	Advanced power electronics lab	0-0-3	1.5	Practical
17	NEEC517	Advanced drives lab	0-0-3	1.5	Practical
18	NEEC518	Advanced simulation lab	0-0-3	1.5	Practical
19	NEEC519	Advanced measurement and instrumentation lab	0-0-3	1.5	Practical
20	NEEC595	Research methodology and statistics for electrical engineering	3-0-0	3	Theory
21	NEEC596	Research methodology and statistics for ee	3-0-0	3	Audit
22	NEEC597	Thesis	0-0-0	20	Non-contact
23	NEEC598	Thesis	0-0-0	20	Non-contact
24	NEEC599	Thesis	0-0-0	20	Audit

Details of Departmental Elective (DE) Courses

Departmental Elective (DE) Courses					
S. No.	Course Code	Course Name	L-T-P	Credit	Course Type
1	NEED501	High voltage engineering	3-0-0	3	Theory
2	NEED502	Power system transients	3-0-0	3	Theory
3	NEED503	Power system dynamics	3-0-0	3	Theory
4	NEED504	Power quality	3-0-0	3	Theory
5	NEED505	High power converters	3-0-0	3	Theory
6	NEED506	Power electronics for renewable energy system	3-0-0	3	Theory
7	NEED507	Wireless power transfer	3-0-0	3	Theory
8	NEED508	Design of power converters	3-0-0	3	Theory
9	NEED509	Advanced machine drives	3-0-0	3	Theory
10	NEED510	Power system optimization	3-0-0	3	Theory
11	NEED511	Mine instrumentation	3-0-0	3	Theory
12	NEED512	Multivariable Control and Estimation	3-0-0	3	Theory
13	NEED513	Course not assigned against this code			
14	NEED514	Renewable Energy Resources	3-0-0	3	Theory