

DEPARTMENT OF ELECTRICAL ENGINEERING

M.Tech. (Electric Drives & Power Electronics)

[illegible]

Program Elective Courses (EDPE)

Teaching Scheme					Contact Hours/Week			Exam Duration		Relative Weight (%)				
S. No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
1.	EEN-640	Advanced Electric Drives	PEC	4	3	0	2	3	-	10-25	25	15-25	30-40	-
2.	EEN-641	Microcontroller and its Applications to Power Converters	PEC	4	3	0	2	3	-	10-25	25	15-25	30-40	-
3.	EEN-642	DSP Controlled Electric Drives	PEC	4	3	0	2	3	-	10-25	25	15-25	30-40	-
4.	EEN-643	Electric Drives for Hybrid Vehicles	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
5.	EEN-644	Design of Electric Drives	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
6.	EEN-645	Instrumentation in Electric Drives	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
7.	EEN-646	Drive System in Electric Traction	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
8.	EEN-647	Control Techniques in Power Electronics for AC Drives	PEC	4	3	0	2	3	-	10-25	25	15-25	30-40	-
9.	EEN-648	Pulse Width Modulation for Power Converters	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
10.	EEN-649	Enhanced Power Quality AC-DC Converters	PEC	4	3	0	2	3	-	10-25	25	15-25	30-40	-
11.	EEN-650	Switch Mode Power Supply	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
12.	EEN-651	Power Quality Improvement Techniques	PEC	4	3	0	2	3	-	10-25	25	15-25	30-40	-
13.	EEN-652	CAD of Power Apparatus	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
14.	EEN-653	Selected Topics in Machines and Transformers	PEC	4	3	0	2	3	-	10-25	25	15-25	30-40	-
15.	EEN-654	Synchronous Machines and System Stability	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
16.	EEN-655	Special Machines	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
17.	EEN-656	Testing and Commissioning of Electrical Equipment	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
18.	EEN-564	HVDC Transmission Systems	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
19.	EEN-690	Advanced Computer Controlled Systems	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
20.	EEN-657	Digital Control of Power Converters	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
21.	EEN-658	Communication Techniques in Smart Grid	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
22.	EEN-659	Control and Management of Smart Grid	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
23.	EEN-660	Power Converter Topologies in Smart Grid	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-

24.	EEN-611	FPGA Implementation of Signal Processing Systems	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
25.	EEN-612	Electrical Transients in Power Systems	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
26.	EEN-613	Sliding Mode Control and Observation	PEC	4	3	1	0	3	-	20-35	-	20-30	40-50	-
27.	EEN-673	Design of WBG Device based Power Converters	PEC	4	3	0	2/2	3	-	15-30	20	15-25	30-40	-
28.	EEN-695	Modelling and Control of Sustainable Energy Systems	PEC	4	3	0	2	3	-	10-25	25	15-25	30-40	-