1.2.1

Supporting DocumentsDepartment of Electrical Engineering List of New Courses Introduced



I.K Gujral Punjab Technical University, Kapurthala Department of Electrical Engineering (Main Campus)

1.2.1

Percentage of new courses introduced of the total number of courses across all programmes offered during the year

QnM

B. Tech. EE: Nil

M. Tech. EE (PSRE): 46 Core: 2 + 2 + 0 + 0 = 4

Professional Elective: 4 + 4 + 4 + 4 + 4 + 20Practical/ Laboratory: 2 + 2 + 0 + 0 = 4

Audit: 4 + 4 + 0 + 0 = 8

Open Elective: 0 + 0 + 6 + 0 = 6

Others: 1 + 0 + 0 + 0 = 1

Seminar/Project/Dissertation: 0+ 1 + 1 +1=3

PhD: Nil

1.2.1.1 :Number of courses offered by the institution across all Programmes during the year **118**

1.2.1.2

B. Tech (EE)	18	21	21	7	67
M. Tech. EE (PSRE)	24	15	04	3	46
PhD	5	9 - 114	-	-	05

Data Requirement for the year:(As per Data Template)
Name of the new course introduced

B. Tech. EE: Nil

M. Tech. EE (PSRE): 46

PhD: Nil

Sr No	Name of the Course	Course Code
1.	Computer Aided Power System Analysis	PSRE-101/21
2.	Distributed Generation	PSRE-102/21
3.	FACTS and custom Power Devices	PSRE-103A/21
4.	Advanced Power System Protection	PSRE-103B/21
5.	Mathematical Methods for Power Engineering	PSRE-103C/21
6.	Analysis of Power Converter	PSRE-103D/21
7.	Solar PV Energy System	PSRE-104A/21
8.	Waste to Energy Conversion Technologies	PSRE-104B/21
9.	Small Hydro and Non-Conventional Technologies	PSRE-104C/21
10.	Solar Energy Conversion Technologies	PSRE-104D/21
11.	Computer Aided Power System Analysis Lab	PSRE-105/21
12.	Power Simulation Lab-I	PSRE-106/21
13.	English for Research Paper Writing	MTA-101/21
14.	Disaster Management	MTA-102/21
15.	Sanskrit for Technical Knowledge	MTA-103//21

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	Value Education	MTA-104/21
17	Research Methodology and IPR	MTRM-101/21
18	Power system simulation lab-II	PSRE-205/21
19	Renewable energy lab	PSRE-206/21
20	Mini Project with Seminar	MTPR-101/21
21.	Energy Forecasting and Modeling	PSRE-201/21
22.	Power System Generation Control	PSRE-202/21
23.	Power Quality and and Harmonic Analysis	PSRE-203A/21
	Power System Dynamics	PSRE-203B/21
25.	Reliability Analysis and Protection	PSRE-203C/21
	Energy Economics and Policies	PSRE-203D/21
	Electric and Hybrid Vehicles	PSRE-204A/21
28.	Smart Grids	PSRE-204B/21
29.	Engineering Optimization	PSRE-204C/21
30.	Artificial Intelligence Techniques	PSRE-204D/21
31.	Constitution of India	MTA-105/21
32.	Pedagogy Studies	MTA-106/21
33.	Stress Management of Yoga	MTA-107/21
	Personality Development through Life Enlightenment Skills	MTA-108/21
35.	Industrial Load Modeling and Control	PSRE-301A/21
36.	Power System Deregulation	PSRE-301B/21
37.	Solar PV Energy System	PSRE-301C/21
38.	Energy Storage System	PSRE-301D/21
39.	Business Analysis	MTOE-301A/21
40.	Industrial Safety	MTOE-301B/21
	Operations Research	MTOE-301C/21
42.	Cost Management of Engineering Projects	MTOE-301D/21
43.	Waste to Energy	MTOE-301F/21
44.	Composite Materials	MTOE-301E/21
45.	Phase-I Dissertation	PSRE- 302/21
46.	Phase-II Dissertation	PSRE-401/21

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