

**Innovations of EEE Department**

S. No	Name of Faculty	Innovations	Subjects covered	Details of Innovation
1	Dr. Monika Gupta	Pedagogy	EM-II	Project Based Learning
		ICT Tool	PSLP	Blog (drmonikaguptaeee.blogspot.com)
		Assesment Tool	EM-II	Moodle
2	Dr Rajveer Mittal			Case study on Thermal Power Plant and Substation
3	Mr. U.K Jha	Pedagogy	EPGS	
		Pedagogy	EMFT (Coordinate system Understanding)	1) Analogical demonstration of coordinate systems using Apples, carrots & radish.
		ICT Tool	(1) Circuits & Systems Theory, (2) Circuits & Systems Lab, (3) EMFT	For (1), (2) & (3): Complete YouTube Video is available in opensource mode of my channel "IP Academy" on YouTube.
3	Dr. Neelu Nagpal	Assesment Tool		
		Pedagogy	Systems	1. Project Based Learning                      2. Hands on Activity
		ICT Tool	Introduction to Control Systems	Reuse of NPTEL Lecture; E Content- Research paper and website ; Demonstration of 2nd order using Student version LABView
4	Dr. S K Pandey	Assesment Tool	Network Analysis & Synthesis	Quiz on Moodle
		Pedagogy		1. Open Space Learning                      2. Small Group Discussion
		ICT Tool		1. E Content- Research paper and website 2. Beyond Class Room Activity through facilities available in institute ( Utility Grid Tied PV Array, Distribution Substation 11kV/415V) 3. Class Room Activity in small student Groups (Starter and Controller)
5	Dr. Neelam Kassarwani	Assesment Tool		1. Assignments                                      2. Quizes                                      3. Tutorials
		Pedagogy	Power System-I (Laboratory)	1. Team work in open ground (Measurement of effective earth resistance using Megger)
		ICT Tool	Power System-I (Theory)	2. Virtual Lab (Dielectric strength of transformer oil, Study of Ferranti effect of a long transmission line)
6	Mr. Ashok Goyal	Assesment Tool	Power System-I (Theory)	1. Reuse of NPTEL Lecture                      2. Website (Galloping of conductors)
		Pedagogy	Utilization of Electrical Energy Theory	Role Play
		ICT Tool	Utilization of Electrical Energy Theory	Reuse of NPTEL Lecture
		ICT Tool	Sensors and Transducers Lab	Virtual Lab
7	Mrs. Shashibala Agarwal	Assesment Tool	Utilization of Electrical Energy Theory	Assignment, Quiz on Moodle
		Pedagogy	Power Electronics (Theory)	Hands On experience (Mini Project), Brainstorming
		ICT Tool	Power Electronics (Lab)	Virtual Lab
8	Mr. Jitender	Assesment Tool	Power Electronics (Theory)	Assignment, Quiz
		Pedagogy	Electric Drive	Technical Presentation
		ICT Tool	Utilization of Electrical Energy (Lab)	LAD SIM
9	Mr. Sheersh	Assesment Tool		
		Pedagogy	Statistics, Statistical Modelling & Data Analytics	Case study
		ICT Tool	Statistics, Statistical Modelling & Data Analytics Lab	Reuse of NPTEL lectures
		Assesment Tool	Statistics, Statistical Modelling & Data Analytics	Assignment, Quiz

10	Dr. Poonam Juneja	Pedagogy	Network Analysis & Synthesis	Role Play
		ICT Tool	Network Analysis & Synthesis Lab	Virtual Lab
		Assesment Tool	Network Analysis & Synthesis	Moodle
11	Mrs Supriya Sharma	Pedagogy	Research Methodology	Case Study
		ICT Tool	Research Methodology	Reuse of NPTEL lectures
		Assesment Tool	Research Methodology	Moodle
12	Mr. Lalit Agarwal	Pedagogy	Power System-II Theory	Case Study
		ICT Tool	Power System-II Lab	Power System-II Lab online simulator
		Assesment Tool	Power System-II Theory	Moodle
13	Mrs. Neha Aggarwal	Pedagogy	Electrical and Electronics Measuring Instruments Theory	Case Study
		ICT Tool	Electrical and Electronics Measuring Instruments Lab	Electrical and Electronics Measuring Instruments Lab online simulator
		Assesment Tool	Electrical and Electronics Measuring Instruments Theory	Moodle
14	Mr. Ravi Sharma	Pedagogy	BMS	Case study
		ICT Tool	S&T, EHVAC & HVDC	Interactive Virtual Lab, Reuse of NPTEL Lectures
		Assesment Tool	BMS	Making Batteries, testing batteries, dissection of batteries
15	Mr. Govind Gupta	Pedagogy	PSLP	Case Study
		ICT Tool	PSLP LAB , Power System 1 Lab	Virtual Labs,
		Assesment Tool	PSLP	QUIZ ON MOODLE
16	Mrs. Ayushi Aggarwal	Pedagogy	Electrical Power Quality (Theory), Circuit & System (Theory)	Brainstorming , Hardware Projects
		ICT Tool	Electrical Power Quality	Reuse of Nptel lectures, Online Simulator
		Assesment Tool	Electrical Power Quality	Moodle
17	Mrs. Monika Bhardwaj	Pedagogy	Electrical Materials Theory, AI Theory	Technical presentation, Project Based Learning
		ICT Tool	Electrical Science Lab, AI Theory	Virtual Labs, Resue of NPTEL Lecture
		Assesment Tool	AI Theory	Moodle
18	Mr. Rahul Garg	Pedagogy	Electrical Machine Design (Theory)	Technical Presentation
		ICT Tool	Electrical Machine Design (Lab)	Sci Lab, Reuse of NPTEL Lectures
		Assesment Tool		
19	Dr. Laxya	Pedagogy	Computation Methods	Case study
		ICT Tool	Computation Methods	Reuse of NPTEL Lectures
		Assesment Tool		
20	Dr. Chanderkesh Shukla	Pedagogy	EEC	Using open studio for innovative Teaching in EEC
		ICT Tool		
		Assesment Tool		
21	Mrs. Neeraj	Pedagogy	Research Methodology, Electronics-1	Case study, Reuse of NPTEL Lectures
		ICT Tool	Electronics- 1 Lab	Technical Presentation
		Assesment Tool	Research Methodology	Moodle
22	Mr. Nikhil	Pedagogy	EEMI	Case study
		ICT Tool	EEMI	Reuse of NPTEL Lectures
		Assesment Tool	EHVAC & DC	Moodle