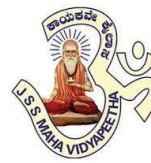




**JSS Mahavidyapeetha**  
**JSS Academy of Technical Education, Noida**  
**Department of Electrical & Electronics Engineering**



Innovations by Faculty in Teaching and Learning

**Innovative Teaching Methods:**

Scientific research has shown that innovative teaching methods and approaches can significantly enhance the student learning process. By experimenting new methods and strategies we can **improve student engagement, motivation and attainment**. Some of the innovation techniques adopted in our teaching - learning process is specified herewith.

The Documents are maintained in the respective course file by individual subject teacher.

Sl. No.	Innovative Teaching Methods followed in the Department.
1.	Test based Learning
2.	Case based Learning
3.	Experimental Learning
4.	Peer-peer learning

**AY: 2021-22 ODD Semester**

SI No	Subject & Code	Innovative / Novel Approach Practiced	Learning Style
1.	Electrical Machines-II KEE 503	Conduction of lab experiment using Virtual lab	Virtual Lab Experiments
2.	Constitution of India KNC 501	Case studies on 1. Keshavanand Bharati V State of Kerala AIR 1973 SC.1461. Maneka Gandhi V, Union Bank of India, AIR, 1978	Case studies

3.	Project NEN851	How to download SCI/ Scopus research paper using open-source resources	Self-made video lectures
4.	Control System	Design 2 <sup>nd</sup> Order PLC circuit and show its characteristics and verify	Project based through learning measurement

**AY: 2021-22 EVEN Semester**

<b>SI No</b>	<b>Subject &amp; Code</b>	<b>Innovative / Novel Approach Practiced</b>	<b>Learning Style</b>
1.	Network Analysis and Synthesis KEE403	Assignments and Tutorials	Peer-peer learning
2.	Special Electrical Machines KEE 061	Synchronous motor	Seminar Based
3.	Power System-II KEE- 601	Assignments and Tutorials	Peer to Peer learning
4.	Universal Human Values and Professional Ethics KVE 401	As per university syllabus	Assignment cum seminar presentation

**AY: 2020-21 ODD Semester**

<b>SI No</b>	<b>Subject &amp; Code</b>	<b>Innovative / Novel Approach Practiced</b>	<b>Learning Style</b>
1.	Digital Electronics Lab KEE 453	All Experiments	Multisim Software
2.	Microprocessor and Microcontroller KEE 652	All Experiments	Virtual Lab Experiment
3.	EMFT KEE 301	EMFT	Problem solving in groups

**AY: 2020-21 EVEN Semester**

<b>SI No</b>	<b>Subject &amp; Code</b>	<b>Innovative / Novel Approach Practiced</b>	<b>Learning Style</b>
1.	Human Values KVE 401	Understanding Harmony	Case Study
2.	Electrical Machines lab KEE 452	Conduction of lab experiment using Virtual lab	Virtual Lab Experiments

**AY: 2019-20 ODD Semester**

<b>SI No</b>	<b>Subject &amp; Code</b>	<b>Innovative / Novel Approach Practiced</b>	<b>Learning Style</b>
1.	Power transmission and distribution REE 502	Impact of renewable energy resources in distribution systems	Flip Classroom

**AY: 2019-20 EVEN Semester**

<b>SI No</b>	<b>Subject &amp; Code</b>	<b>Innovative / Novel Approach Practiced</b>	<b>Learning Style</b>
1.	Network Analysis and Synthesis KEE 403	Circuit Simulation	ORCAD Pspice Analysis and Synthesis
2.	Special Electrical Machines REE 061	Special Electrical Machines	Flip Classroom
3.	Digital Electronics Lab KEE 453	MUX DEMUX Registers	Virtual Platform

**The following faculties have undergone courses through NPTEL**

<b>Sl No</b>	<b>Faculty</b>	<b>Area</b>
1	Dr. Preeti Jaidka	Control engineering
2	Dr. Preeti Jaidka	Biomedical Signal Processing
3	Mrs. Swati Mishra	Non Conventional Energy Sources
4	Dr. Anand Kumar Pandey	DC Microgrid and Control System
5	Dr. Anand Kumar Pandey	Roadmap for Patent creation
6	Ms. Chaitra N Yadahalli	Industrial automation and Control
7	Ms. Chaitra N Yadahall	Analog Electronics
8	Ms. Pooja Prakash	Microwave Integrated Circuits
9	Mrs. Aishwarya G. Patil	Signals & Systems
10	Mrs. Aishwarya G. Patil	Microprocessors
11	Mrs. Aishwarya G. Patil	Basics of sensors & Transducers
12	Mrs. Aishwarya G. Patil	Power Electronics