

Academic Year: 2017-18

Sl. No.	Name of Faculty	Course	Semester	Innovative method
1	Venkatesha K	Electromagnetic Field Theory	4 th	3D representation of co-ordinate systems
2	Madhu S	Basic Electrical Engineering	2 nd	Practical demo on cut section of DC machines, induction motor and transformer, Quiz was conducted prepared by staff only.
3	Priyashree S	Digital Signal processing	6 th	Quiz was conducted on basic definitions, terminologies and properties of DFT and FFT prepared by staff only.
4	Kruthi Jayaram	Basic Electrical Engineering	2 nd	Practical demo on cut section of DC machines, induction motor and transformer, Quiz was conducted on Dc machines prepared by staff only.
5	Champa.PN	Basic Electrical Engineering	2 nd	Practical demo on cut section of DC machines, induction motor and transformer, Quiz was conducted Dc machines prepared by staff only.
6	Savita Sangappanavar	Sensors & Transducers	6 th	Data logger kit, video clips on different Sensors & Transducers

B.N.M. Institute of Technology

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Post Box no. 7087, 27th cross, 12th Main,

Banashankari II Stage, Bengaluru-560070, INDIA

Ph: 91-80-26711780/81/82 Email: principal@bnmit.in, bnmitprincipal@gmail.com, www.bnmit.org

Department of Electrical & Electronics Engineering

Innovative Teaching Method

Title of Innovative method/Activity: 3D- Presentation

Year: **2017-2018**

Faculty/Inventor: **Venkatesha.K**

Designation: **Associate Professor**

Course Name: **Electromagnetic Field Theory**

Course Code: **15EE45**

Branch: **Electrical & Electronic Engineering**

Semester: **IV Sem**

Goals/Objective of method

- To understand the concept of vector algebra, Co-ordinate system etc.

Description of method:

- The concept of vector algebra is important in order to understand Electromagnetic Field theory .Addition of vectors, multiplication and division of vector are required to understand fields. The three co-ordinate systems will help students to analyze different densities such as linear, surface and volume-charge densities that could related to charged cable, metal plates and cluster of charges.

Benefits of method:

- Student will realize the 3D effect of co-ordinate systems,Gauss Law and its simplicity to calculate fields of various physical specimens which are electrically charged.This analysis result in calculation of capacitance effect of various specimens.

For review and critique contact:

E-Mail address of faculty and HoD:

kvenkat1975eshwar@gmail.com . hodeee@bnmit.in

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Department of Electrical & Electronics Engineering

Innovative Teaching Method

Title of Innovative method/Activity: Practical demo on cut section of DC machines, induction motor and transformer.

Year: 2016-17 (Even)

Faculty/Inventor: Mrs. Madhu.S

Designation: Asst. Professor

Goals/Objective of method: To give practical exposure to the construction of DC Machine, Induction motor & Transformer

Description of method:

The cut-section of DC Machine, Induction Motor & Transformer model is shown. The construction of each machine & its parts are discussed in detail. The working of each machine is explained for better understanding.

Benefits of method:

- Students will be able to understand the construction and working more clearly.
- Students will have clear idea about the actual parts of machine.
- It is very ideal for the students to understand and study the construction of various machines.

For review and critique contact:

E-Mail address of faculty and HoD:

madhus@bnmit.in , hodeee@bnmit.in

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Department of Electrical & Electronics Engineering

Innovative Teaching Method

Title of Innovative method/Activity: Quiz

Year: 2017-18

Faculty/Inventor: Priyashree S

Designation: Associate Professor

Goals/Objective of method:

The students are required to provide answer in one word from the syllabus pertaining to the Internals, including definitions and properties.

Description of method:

This concept gives an insight for the students about the basic definitions, terminologies and properties of DFT and FFT. The students are required to recollect and write these terms, definitions or properties in order to complete the solution for the given question. The Quiz was evaluated based on the maximum marks scored by each student with a mapping of 1 mark for each question.

Benefits of method:

Since the course on Digital Signal processing is a mathematical subject, it requires the students to memorize several equations and properties. The quiz has been framed such that the students will get the familiarity about the significant definitions, theorems and properties. This quiz will provide awareness about the concepts being taught during the regular classes & facilitates as a revision for the internal assessments being conducted periodically during the semester.

For review and critique contact:

E-Mail address of faculty and HoD:

priyashree_suresh@yahoo.com, hodeee@bnmit.in

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Department of Electrical & Electronics Engineering

Innovative Teaching Method

Title of Innovative method/Activity: Practical demo on cut section of DC machines, induction motor and transformer. **Year:** 2016-17 (Even)

Faculty/Inventor: Mrs. Ashwini A **Designation:** Asst. Professor

Goals/Objective of method: To give practical exposure to the construction of DC Machine, Induction motor & Transformer

Description of method:

The cut-section of DC Machine, Induction Motor & Transformer model is shown. The construction of each machine & its parts are discussed in detail. The working of each machine is explained for better understanding.

Benefits of method:

- Students will be able to understand the construction and working more clearly.
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- It is very ideal for the students to understand and study the construction of various machines.

For review and critique contact:

E-Mail address of faculty and HoD:

kruthijayaram@gmail.com, hodeee@bnmit.in

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E-Mail address of faculty and HoD:

champa.pn@gmail.com, hodeee@bnmit.in

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Department of Electrical & Electronics Engineering

Innovative Teaching Method

Title of Innovative method/Activity: Demonstration and Explanation of Data logger kit

Faculty/Inventor: Mrs. Savita Sangappanavar **Year:** 2017-18 (Even)

Designation: Asst. Professor

Goals/Objective of method: To have practical exposure on data collection from different sensors and data transmission.

Description of method:

The Wind Data Logger is designed to provide an affordable and easy-to-use solution for wind site evaluation and wind generator performance. It easily supports both simple and complex monitoring applications. The Wind Data Logger records wind speed, moisture, and direction, as well as the time and date, temperature, battery voltage, and other important wind parameters. It is ideal for more complex studies involving multiple wind speed instruments and other sensors. Recording directly to a Secure Digital (SD™) card provides convenient data downloads and stores many months of data at 30 second intervals and years of data at longer logging intervals, resulting in fewer trips to retrieve data from the Wind Data Logger.

Benefits of method:

- Students will be able to understand the systematic collection of wind data at a potential wind farm site.
- Students will have idea how wind farm developers able to estimate the future power output.

For review and critique contact:

E-Mail address of faculty and HoD:

savitajays@gmail.com , parimalaritti@gmail.com