

**Academic Year: 2015-16**

<b>Sl. No.</b>	<b>Name of Faculty</b>	<b>Course</b>	<b>Semester</b>	<b>Innovative method</b>
1	Kruthi Jayaram	Power Electronics	4 <sup>th</sup>	Simulation of DC-DC converter using MATLAB tool
2	A Kumar	Energy auditing & DSM	8 <sup>th</sup>	Puzzle on Energy Auditing
3	Shubha Rao K	Object oriented c ++	6 <sup>th</sup>	Puzzle on OOPS using C++
4	Smita S Patil	Microcontroller	4 <sup>th</sup>	Puzzle on Microcontrollers

# *B.N.M. Institute of Technology*

(Approved by AICTE, Affiliated to VTU, ISO 9001:2008 certified and NAAC grade A accredited Institution)

Post Box no. 7087, 27<sup>th</sup> cross, 12<sup>th</sup> Main,

Banashankari II Stage, Bengaluru-560070, INDIA

Ph: 91-80-26711780/81/82 Email: [principal@bnmit.in](mailto:principal@bnmit.in), [bnmitprincipal@gmail.com](mailto:bnmitprincipal@gmail.com), [www.bnmit.org](http://www.bnmit.org)

Department of Electrical & Electronics Engineering

## **Innovative Teaching Methods**

**Title of Innovative method/Activity:** Simulation of DC-DC converter using MATLAB tool

Year: 2015-16

Faculty/Inventor: **Ms. Kruthi Jayaram**

Assistant Professor

Designation:

**Goals/Objective of method:** The objective of the innovative method was to understand the practical concept of working of Simulation of DC-DC converter using MATLAB tool

**Description of method:** To get the practical knowledge of working of choppers in power electronics a demo presentation on DC-DC converter using MATLAB tool was done. Students were happy to receive the idea about the working model of choppers in MATLAB which they can utilize in their further projects.

**Benefits of method:** Understanding of the practical usage of power electronic converters.

For review and critique contact: [kruthijay@gmail.com](mailto:kruthijay@gmail.com), [parimala.ritti@gmail.com](mailto:parimala.ritti@gmail.com)

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## **Innovative Teaching Methods**

Title of Innovative method/Activity: **Crossword Puzzle** Year: **2015-16**

Faculty/Inventor: Shubha Rao K Designation: Associate Professor

Goals/Objective of method:

**A crossword puzzle to solve which includes basic knowledge on C++ language.**

### **Description of method:**

The learning and teaching process will be more informative and enjoyable by conducting technical games. One such technique is to use crossword puzzles/unscramble the words which can be tailored to a particular concept of interest. It can be used for teaching a specific subject as it can be adapted in limitless ways. A cross word puzzle will improve a student's logical thinking ability.

### **Benefits of method:**

Students must be able to know and understand the terminology of a particular subject in order to solve a related crossword puzzle. In the process of completing a puzzle, student can develop logical thinking and evaluate the choices.

For review and critique contact:

[shubhakrao@bnmit.in](mailto:shubhakrao@bnmit.in) [rvarimala@bnmit.in](mailto:rvarimala@bnmit.in)

Feedback from students was taken on this activity and they enjoyed the whole activity. Most of them felt that it is a fun way of refreshing their knowledge and learning technical concept.