



**NITTTR
BHOPAL**



EEE-22/2024-2025

Circuit Designing and Simulation using Multisim

10-02-2025 to 14-02-2025

NITTTR Bhopal

<https://erp.nitttrbpl.ac.in/poc2024/?id=regEEE-22>



Rationale

To develop and produce electronic and electric circuits requires many skills and it is beneficial to learn to take computers aid for prototype designing and conduct analysis of circuits. Analog and Digital circuits are the basic building blocks of any electronic system, which processes the analog and digital signals. Designing, simulation and testing of various electronic circuits/system using electronic design and automation tool/software is the vital need of any Electronics industry in the present time.

This programme on Circuit Designing and Simulation using Multisim aims to develop in the participants the skills to build analog & digital electronic circuits using Multisim software and test the circuit functionality on a computer. It will also be beneficial if the participants are aware about other software's being currently used for drawing and designing of electronic circuits. These skills are required to develop prototype designs, printed circuit board design, electronic maintenance and

Programme Outcomes

The participants of the workshop will be able to:

- Upgrade knowledge and skills in the area of computer aided Circuit Designing & their applications.
- Equip teachers with the skills to build and test analog electronic circuit using Multisim software.
- Equip teachers with the skills to build and test digital electronic circuit using Multisim software.
- Solve application problems using Multisim.
- Develop awareness about similar Circuit Designing and Simulation software.

Programme Content

- Computer aided Circuit Designing & their applications
- Overview of analog & digital modules of Multisim software
- Building & testing an analog circuit
- Analog instruments
- Building & testing a digital circuit
- Digital instruments

Target Group

Faculty of Electronics and allied Engineering disciplines

Coordinator & Co-Faculty

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