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Workshop organized by the Department of Electrical and Electronics Engineering

Workshop on 'NI MULTISIM Circuit Design Suite'

The Department of Electrical and Electronics Engineering organized a workshop on 'NI Multisim Circuit Design Suite' from 18th January 2024 to 19th January2024. 32 students of fifth semester from the department of Electrical and Electronics Engineering participated in the workshop.

Day 1: 18-01-2024

The event started at 10.00am with a welcome speech and guest introduction followed by an introductory session by Mr. Satyanarayan R, Application Engineer, VI Solutions, Bangalore. During the introductory session Mr. Satyanarayan R, explained the industrial applications and benefits of the software. He explained the procedure to design and simulate simple electrical and electronics circuits. Afternoon session included hands-on session, where the students got an opportunity to learn and use the software to design and simulate simple as well as complex electrical&electronic circuits.

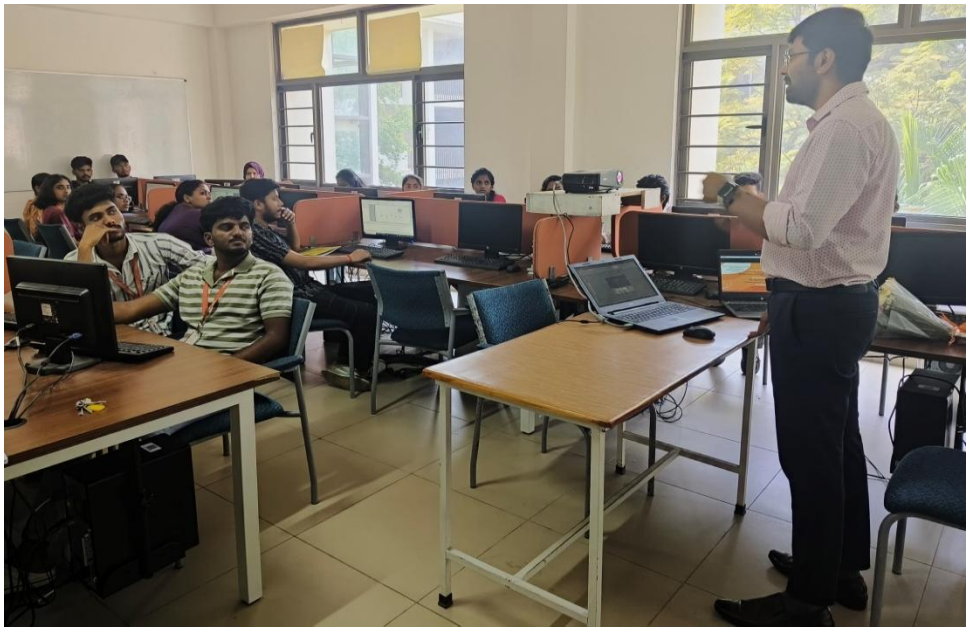

Figure 1: Introductory Session on NI Multisim

Figure 2: Students practising to design and simulate circuit using NI Multisim

Day 02: 19-01-2024

The event started at 10.15 am with a brief introduction about PCBs. The four stages of PCB design which are part-selection, schematic capture and simulation, board layout and board verification and validation was discussed. The process of routing and its importance in design of printed circuit boards was also introduced to the students in forenoon session.

Figure 3: Mr. Satyanarayan R delivering a lecture.

In the afternoon session, hands-on session was given on electronic circuit design using Multisim software. The use and significance of Multisim as an electronic automation and design tool was taught to the students. The session concluded with benefits of software and job

opportunities for graduates with hands-on experience in electronic design automation (EDA) tools like multisim in core industries

Figure 4: Vote of thanks

OUTCOME OF THE EVENT:

The workshop helped the students to

- Simulate theoretical concepts in Multisim and prototyping actual circuits with NI ELVIS
- Compare the simulation with real world measurements inside Multisim environment.
- Do hardware projects in an efficient manner.