MVJ COLLEGE OF ENGINEERING
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Workshop organized by the Department of Electrical and Electronics Engineering

Workshop On "Design, Develop and Real Time Implementation of Control Algorithms for Electrical Systems Using Labview"

The Department of Electrical and Electronics Engineering organized a workshop on "Design, Develop and Real Time Implementation of Control Algorithms for Electrical Systems Using Labview" from 30th May 2024 to 31st May 2024. 28 students of sixth semester from the department of Electrical and Electronics Engineering participated in the workshop.

Day 1: 30-05-2024

The event started at 10.40 am 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.

Presenting bouquet to Mr. Satyanarayan R as a token of our gratitude

Understanding how to design and simulate circuit using LabView

Day 02: 31-05-2024

The event started at 10.30 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.

Mr. Satyanarayan R delivering a lecture.

In the afternoon session, hands-on session was given on electronic circuit design using Labview software. The use and significance of Labview 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 Labview and Multisim in core industries

OUTCOME OF THE EVENT:

The workshop helped the students to

- Empower the knowledge, skills, and confidence to excel in real-time control algorithm development, thereby catalysing positive impacts across various domains of electrical engineering.
- facilitate the seamless integration of control algorithms into existing infrastructure, fostering smoother operations and increased interoperability.