



माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत  
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA  
Deemed University  
(Declared under Distinct Category by Ministry of Education, Government of India)  
NAAC ACCREDITED WITH A++ GRADE



## Event Report

### PCB Design Workshop



माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत  
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA  
Deemed University  
(Declared under Distinct Category by Ministry of Education, Government of India)  
NAAC ACCREDITED WITH A++ GRADE



## Department Of Electronics Engineering

*Presents*

# PCB Design

# WORKSHOP WORKSHOP WORKSHOP

### Faculty Coordinator

- Dr. Varun Mishra
- Dr. Vikas Mahor
- Dr. Shailendra Singh

### Resource Coordinator

- Dr. Varun Mishra
- Dr. Vikas Mahor

### Workshop Details

1<sup>st</sup> Year – 13<sup>th</sup> April 2026  
2<sup>nd</sup> Year – 15<sup>th</sup> April 2026  
Time : 3 – 6 P.M

### Student Coordinator

Adarsh Narwariya

### Contact Detail

7440587543

## **Introduction:**

The **Department of Electronics Engineering** at Madhav Institute of Technology & Science successfully organized a **PCB Design Workshop** aimed at introducing students to the fundamentals of circuit design, simulation, and printed circuit board (PCB) development, held on 13<sup>th</sup> and 15<sup>th</sup> April 2026 in online mode.

The primary goal of the workshop was to provide participants with hands-on exposure to modern electronic design tools and methodologies. It focused on bridging the gap between theoretical knowledge and practical implementation in the field of electronics engineering.

## **Workshop Sessions and Activities:**

The workshop introduced students to:

**Circuit Design Basics** – Understanding electronic components and schematic creation

**Simulation Techniques** – Testing and validating circuit behavior before physical implementation

**PCB Designing** – Converting schematics into PCB layouts suitable for manufacturing

A major highlight of the workshop was the use of the EasyEDA tool, a user-friendly, web-based platform that enabled participants to:

- Design circuit schematics
- Perform real-time simulations
- Create PCB layouts efficiently.

## **Coordination and Management**

The workshop was conducted under the guidance of faculty coordinators:

- Dr. Varun Mishra
- Dr. Vikas Mahor
- Dr. Shailendra Singh

They were supported by resource coordinators:

- Dr. Varun Mishra
- Dr. Vikas Mahor

The event was smoothly managed with the help of the student coordinator:

- Adarsh Narwariya

## **Schedule**

- **1st Year Electronics Students:** 13th April 2026
- **2nd Year Electronics Students:** 15th April 2026
- **Time:** 3:00 PM – 6:00 PM

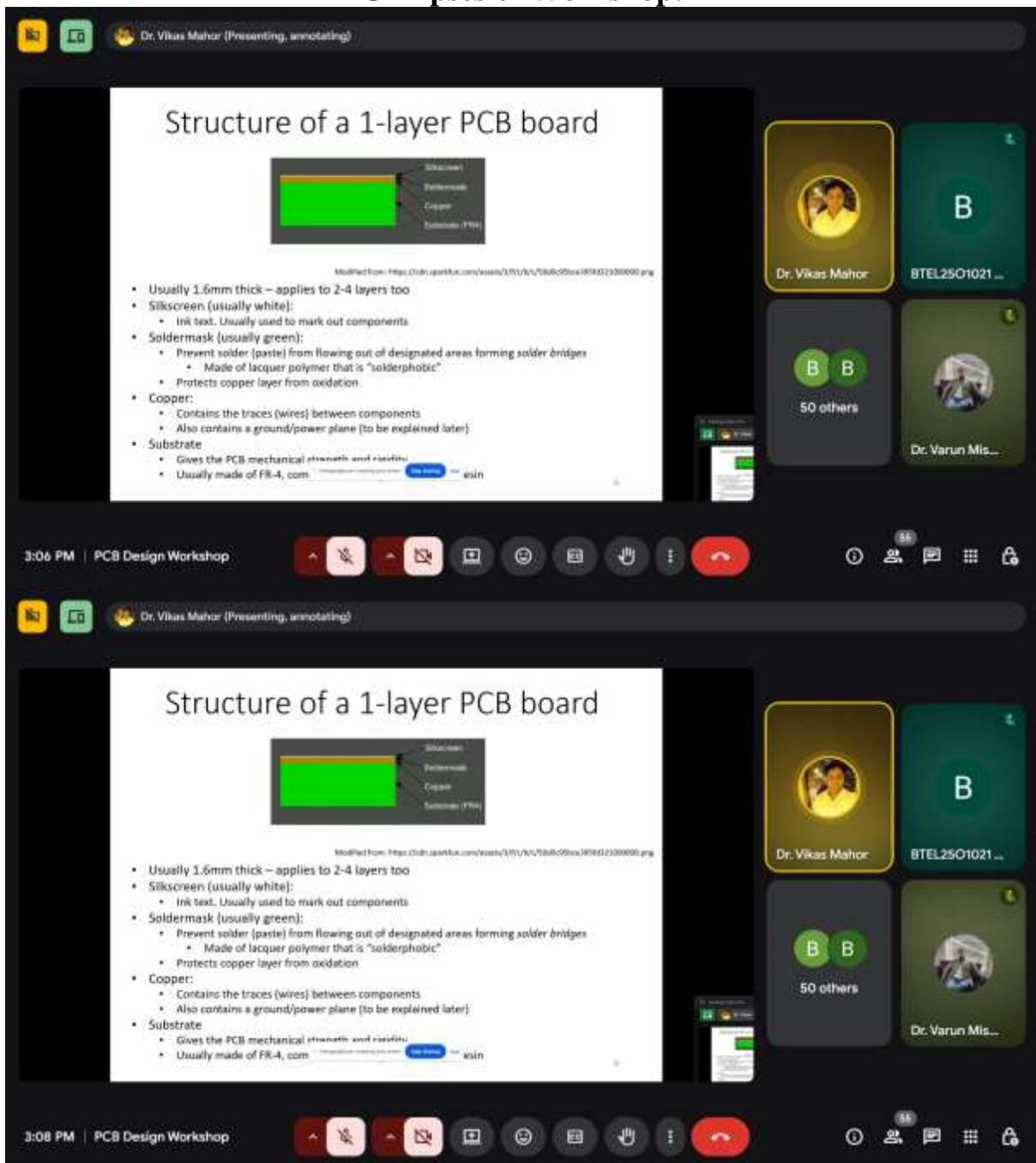
## Outcome

Participants gained practical insights into PCB design workflows and developed foundational skills in using professional tools like EasyEDA. The workshop enhanced students' understanding of electronics design processes and encouraged innovation and hands-on learning.

## Conclusion

The PCB Design Workshop proved to be highly beneficial, equipping students with essential technical skills relevant to both academic projects and industry applications. Such initiatives play a crucial role in preparing students for real-world engineering challenges.

### Glimpses of Workshop:



Dr. Vikas Mahor (Presenting, annotating)

## PCB Design/Manufacturing Workflow

1. Establish project requirements
2. Acquire parts and prototype
3. Design your PCB schematics
4. Run electrical rule check (ERC)
5. Design board, place parts & wiring
6. Setup and Design rule check (DRC)
7. Do 3D rendering
8. Use CAM file to generate Gerbers
9. Export relevant folder files
10. Set PCB fabrication settings
11. Write out bill of materials (BOM)
12. PCB Assembly

3:11 PM | PCB Design Workshop

Dr. Vikas Mahor (Presenting, annotating)

3:21 PM | PCB Design Workshop

Dr. Varun Mishra

B

BTEL2501021 ANSH SHRNA...

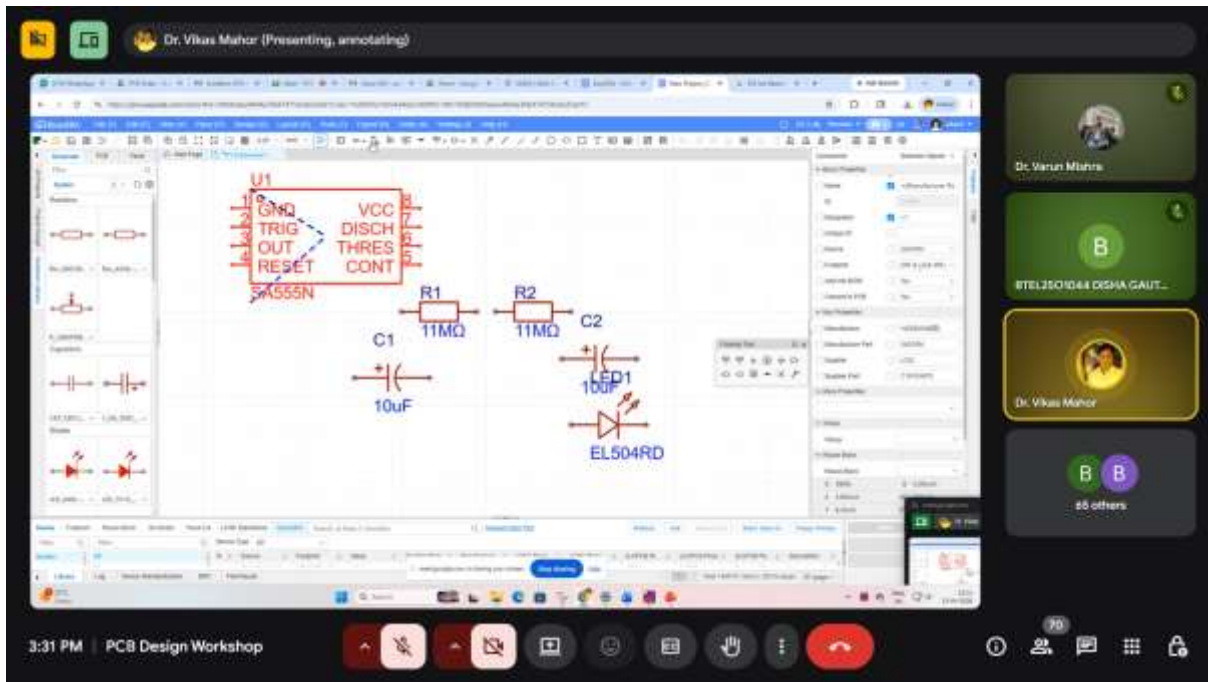
Dr. Vikas Mahor

B B

52 others

B B

50 others



*Mishra*

**Dr. Varun Mishra**  
Event Coordinator

*MA*

**Dr. Vikas Mahor**  
Event Coordinator

*Shailendra Singh*

**Dr. Shailendra Singh**  
Event Co-Coordinator

*Dr. Laxmi Shrivastava*

**Prof. (Dr.) Laxmi Shrivastava**  
HoD, Electronics Engineering