

**KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE**

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కాకతీయ ప్రేక్షాగిక్కి ఁవ్ విజ్ఞాన సంస్థాన, వరంగల్ - ౫౦౬ ౦౧౫ తెలంగాణ, భారత్

కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ - ౫౦౬ ౦౦౫ తెలంగాణ, భారతదేశము

(An Autonomous Institute under Kakatiya University, Warangal)

(Approved by AICTE, New Delhi; Recognised by UGC under 2(F) & 12(B); Sponsored by EKASILA EDUCATION SOCIETY)

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Workshop on PCB Designing and Fabrication**Date:** 4 November, 2023**Time:** 9:00 AM - 6:15 PM**Location:** PCB Lab C-I2RE Block 7

Objective: To impart comprehensive knowledge of PCB design and fabrication, providing participants with hands-on experience in both areas. Through this immersive learning experience, participants will gain a thorough understanding of each stage of the PCB development process, culminating in the fabrication of their own prototype PCB.

Target Audience: Students of Kakatiya University .

Event Program**Session1:**

- 9:00 AM - 9:10 AM: Interaction with Students
- 9:10 AM -9:20 AM: Providing an overview of KITSW I2RE, SAIL and its role in promoting innovation and entrepreneurship
- 9:20 AM - 9:30 AM: Importance of Innovation and Entrepreneurship
- 9:30 AM - 9:40 AM: Introduction to PCB Design Essentials



- 9:30 AM - 10:00 AM: Software Design and Circuit Analysis
- 10:00 AM - 10:15 AM: traditional method of PCB design using manual layout techniques
- 10:15 AM - 10:30 AM: Introduction to PCB Fabrication Processes
- 10:30 AM - 12:00 PM: Hands-on PCB Fabrication Session



- 12:00PM - 12:30PM: Workshop Wrap-up and Feedback



- 12:30 PM - 1:30 PM: LUNCH BREAK

Session 2:

- 1:30 PM - 1:40 PM: Interaction with Students



- 1:40 PM - 1:50 PM: Providing an overview of KITSW I2RE, SAIL and its role in promoting innovation and entrepreneurship
- 1:50 PM - 2:00 PM: Importance of Innovation and Entrepreneurship

- 2:00 PM - 2:10 PM: Introduction to PCB Design Essentials



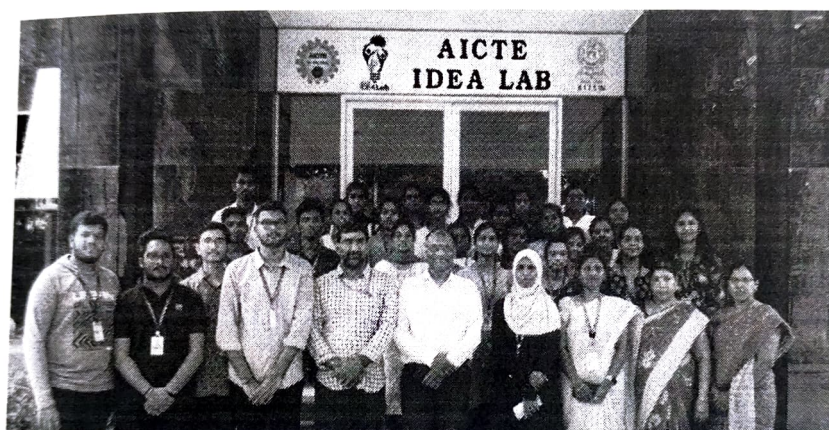
- 2:10 PM - 2:40 PM: Software Design and Circuit Analysis
- 2:40 PM - 3:10 PM: traditional method of PCB design using manual layout techniques
- 3:10 PM - 3:30 PM: Introduction to PCB Fabrication Processes



- 3:30 PM - 5:30 PM: Hands-on PCB Fabrication Session



- 5:30PM – 6:15PM: Workshop Wrap-up and Feedback



Attendance: 40 students and faculty attended the event.

Trainers:

- 1) Dr. V. Raju Reddy
- 2) G. Dhanush
- 3) G. Siddhartha
- 4) M. Koushika
- 5) G. Akash Varma
- 6) S. Mokshith
- 7) J. Neha
- 8) G. Anjali
- 9) S. Laxmi Sanjana

Conclusion:

The PCB Design and Fabrication workshop at KITSW has been a success, with students gaining valuable knowledge and skills through hands-on experience. The PCB Team's dedication to providing a supportive learning environment has been instrumental in fostering students' understanding and confidence in their abilities. The workshop has served as a valuable learning experience for the students, preparing them for future endeavors in PCB design and fabrication.