

NAAC - 'A' Grade Institute (CGPA : 3.21)

ISO 9001:2015

NIRF - 2020 Rank Band : 201-250



## KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506 015, Telangana, INDIA.

काकतीय प्रौद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५०६ ०१५ तेलंगाना, भारत

కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ - 506 015 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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**Event:** Workshop on PCB Designing and Fabrication

**Date:** 10 November, 2023

**Time:** 9:00 AM - 4:00 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.

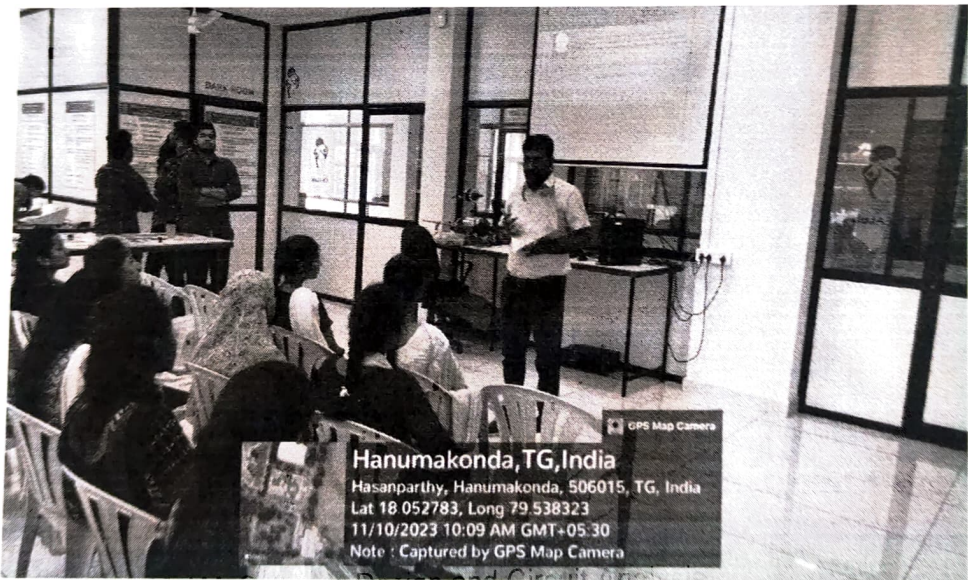
### Event Program

#### 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

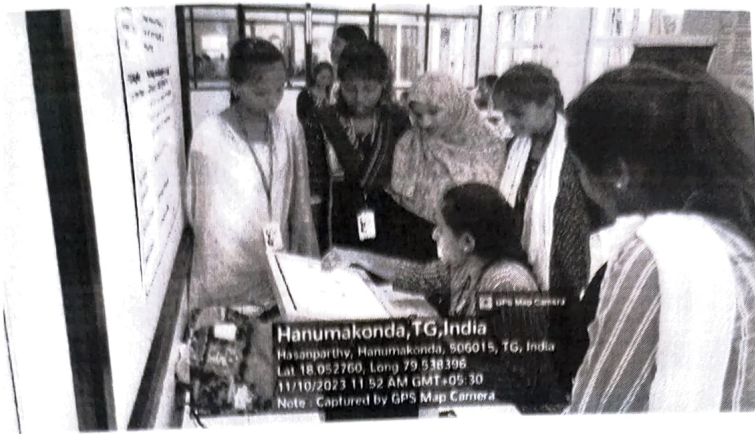


- 9:20 AM - 9:30 AM: Importance of Innovation and Entrepreneurship
- 9:30 AM - 9:40 AM: Introduction to PCB Design Essentials



- 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



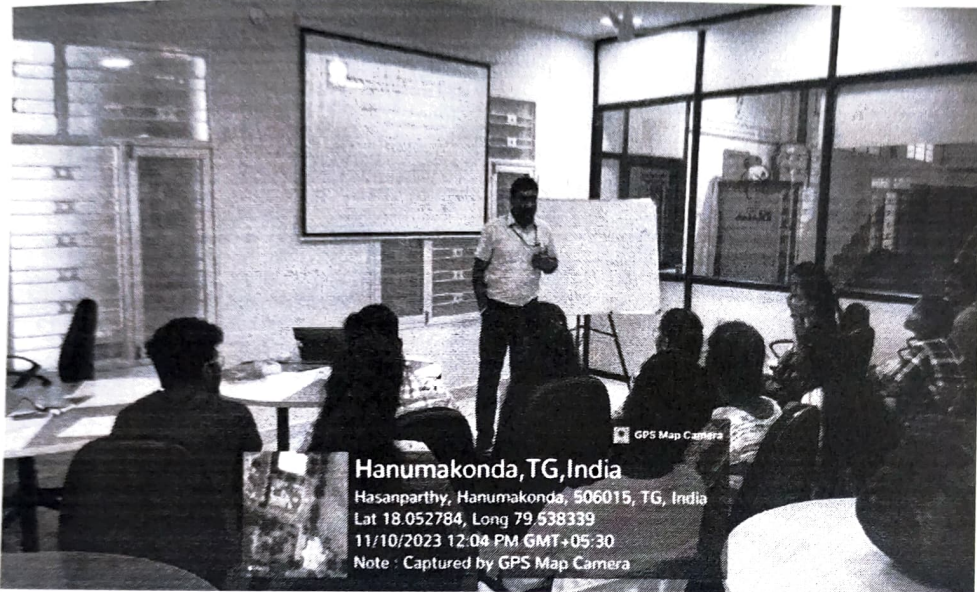
- 10:30 AM - 12:00 PM: Hands-on PCB Fabrication Session



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

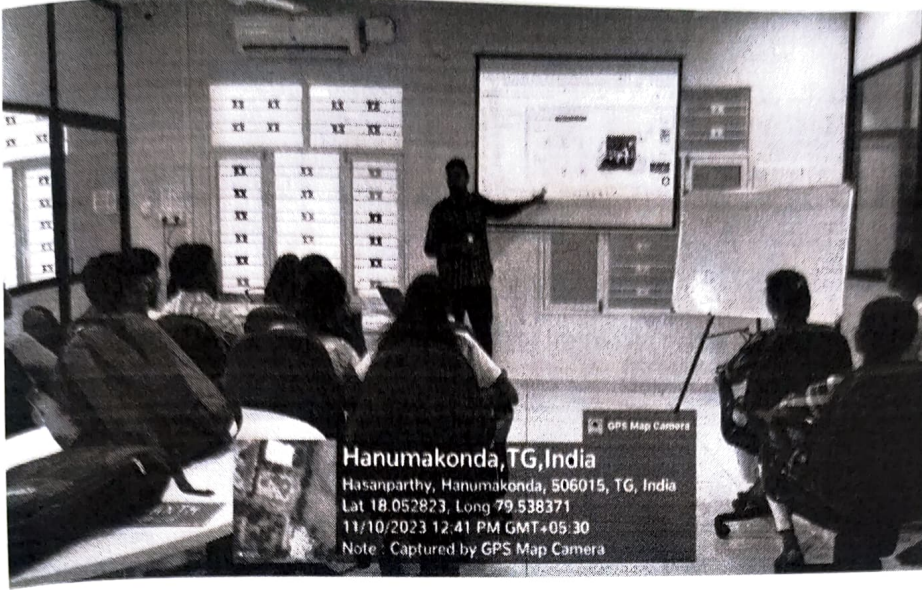
## Session 2:

- 12:30 PM - 12:40 PM: Interaction with Students
- 12:40 PM -12:50 PM: Providing an overview of KITSW I2RE, SAIL and its role in promoting innovation and entrepreneurship



- 12:50 PM - 1:00 PM: Importance of Innovation and Entrepreneurship
- 1:00 PM - 1:10 PM: Introduction to PCB Design Essentials
- 1:10 PM - 1:40 PM: Software Design and Circuit Analysis





- 1:40 PM - 2:10 PM: traditional method of PCB design using manual layout techniques
- 2:10 PM - 2:30 PM: Introduction to PCB Fabrication Processes



- 2:30 PM - 3:45 PM: Hands-on PCB Fabrication Session
- 3:45PM – 3:55PM: 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) K. Sai Deepika
- 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.

## **Outcomes:**

- Hands-on learning experience.
- Master PCB CAD Designing Software.
- Innovation exposure.
- Performance optimization of PCB's.
- Precision Skill Development