

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.

కాకతీయ ప్రేక్షాగిక్కి ఁఢ విజ్ఞాన సఢ్ఢాన, వరఢగల - 506 015 తెలఢ్ఢానా, ఢారత  
కాకతీయ సాఢ్ఢకేఢిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరఢగల్ - 506 015 తెలఢ్ఢానా, ఢారతదేశము

ESTD. 1980  
KITSW

(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:** 28 October, 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) K. Sai Deepika

**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