

# METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY

[Autonomous Institution]

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Affiliated to Osmania University & Approved by AICTE

## DEPARTMENT OF ECE

Dates: December 16th - December 17th, 2022

The Department of Electronics and Communication Engineering recently hosted an enriching workshop on PCB Design and Fabrication, spanning two days from December 16th to December 17th, 2022. With a focus on enhancing practical skills and knowledge in the field, the workshop aimed to equip students with essential expertise in printed circuit board (PCB) design and fabrication processes. The workshop aimed to provide participants with comprehensive insights into the intricate process of designing and fabricating PCBs, vital components in modern electronic systems. By blending theoretical concepts with hands-on experience, students were encouraged to explore various design techniques, fabrication methods, and troubleshooting strategies.

### Participants:

A total of 60 enthusiastic students from the Department of Electronics and Communication Engineering actively participated in the workshop. Their diverse backgrounds and eagerness to learn contributed to a dynamic learning environment, fostering collaboration and knowledge exchange.

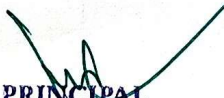
### Key Highlights:


**Expert-Led Sessions:** Renowned experts in PCB design and fabrication led engaging sessions, covering topics ranging from PCB layout fundamentals to advanced design considerations. Participants gained valuable insights into industry best practices and emerging trends, enhancing their proficiency in electronic circuit design. **Hands-On Workshops:** Practical sessions provided participants with the opportunity to apply theoretical knowledge to real-world scenarios. Under the guidance of experienced instructors, students navigated through PCB design software, honing their skills in schematic capture, component placement, routing, and PCB layout optimization.

**Fabrication Demonstration:** A live demonstration of PCB fabrication processes offered students a glimpse into the intricacies of manufacturing. From substrate preparation to etching and drilling, participants gained a deeper understanding of the steps involved in transforming design concepts into tangible circuit boards. **Interactive Discussions:** Interactive Q&A sessions and group discussions encouraged active participation and facilitated the exchange of ideas among participants and instructors. Students seized the opportunity to clarify doubts, share experiences, and explore innovative approaches to PCB design challenges.

### Conclusion:

In conclusion, the workshop exemplified the department's commitment to fostering excellence in engineering education and preparing students for successful careers in the electronics industry. With its blend of theoretical instruction, hands-on experience, and interactive learning, the event exemplified the department's dedication to nurturing the next generation of electronic engineers.

  
PRINCIPAL  
METHODIST COLLEGE OF ENGG. & TECH.  
King Koti Road, Abids, Hyderabad

  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF ECE  
METHODIST COLLEGE OF ENGG. & TECH.  
ABIDS, HYDERABAD.