



COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE – 641 014

(Government Aided Autonomous Institution Affiliated to Anna University)

CGC – CONTINUOUS LEARNING AND ASSESSMENT PROGRESSION

(CLAP) CELL



**Sponsored One Day Workshop titled
PCB DESIGN AND FABRICATION**

On 26 October, 2023

Introduction:

The one-day Workshop “PCB Design and Fabrication” was held on 26/10/2023 at L413 of Coimbatore Institute of Technology. The event aimed to provide an insightful and practical understanding of PCB Design and Fabrication to the participants. The workshop was Sponsored by CGC-CONTINUOUS LEARNING AND ASSESSMENT PROGRESSION (CLAP) CELL of CIT jointly with Department of Electrical and Electronics Engineering, CIT, Cbe.

Registration & Inauguration:

The Workshop registration started at 9 am and the workshop commenced at 9.15 am with a warm welcome address by Ms. A.Priyadharshini, Assistant Professor, Dept.of EEE, CIT. On behalf of the EEE Department, Dr.V.Manikandan, Professor, Dept.of EEE extended wishes to all the participants for attending the workshop and emphasized the importance of PCB in various industries and everyday life. His encouraging words set the tone for an engaging and informative day ahead. Professor Dr.Valliappan Raman, HoD, AI & DS briefed about the activities conducted by CLAP division of CGC Cell and encouraged the students to participate in more such activities for enhancing their skills.



Sessions: The day was divided into two informative sessions, each conducted by Dr.S.NANDAKUMAR, AP(Sr.Gr)/EEE/CIT and Dr.M.L.MERLIN SAJINI, AP/EEE/CIT.

Session 1: PCB Designing on software:

Venue: L413, CIT

The first session was started with an introduction to importance of Printed Circuit Board (PCB) and then started to learn about how to design a PCB board in Eagle CAD software. The participants learned to how to use a Eagle CAD software and designed 5V voltage regulator. This session was handled by Dr.M.L.MERLIN SAJINI, AP/EEE/CIT.



Session 2: Fabrication of PCB

Venue: Electrical Machines Lab

The second session focused on Practical fabrication of PCB through step by step process. The participants learned to fabricate a single layer PCB and designed a Full wave rectifier circuit in PCB board. Additionally the participants also learned to use various tools like Soldering, Drilling and etc. This session was handled by Dr.S.NANDAKUMAR, AP(Sr.Gr)/EEE/CIT.





Interactive Sessions and Practical Demonstrations: Throughout the day, the participants actively engaged in interactive discussions and practical demonstrations. The workshop included several hands-on activities and software exercises to deepen the participants' understanding of the concepts taught in each session.



Vote of Thanks: The workshop concluded with a heartfelt vote of thanks by Ms. A Priyadharshini and the entire organizing team for their efforts in making the event successful. Special appreciation was extended to Dr. M. L. MERLIN SAJINI, AP/EEE/CIT and Dr. S. NANDAKUMAR, AP(Sr.Gr)/EEE/CIT for sharing their valuable knowledge and experiences. Ms. A Priyadharshini also thanked all the participants for their enthusiastic participation and hoped that they would apply their newfound knowledge in their future endeavours.

Conclusion: The one-day PCB Design and Fabrication workshop proved to be an enriching experience for all the participants. It provided them with a comprehensive understanding of PCB board and its various aspects. The practical approach, interactive sessions, and insightful demonstrations made the workshop engaging and memorable. The event successfully achieved its goal of promoting interest and learning in the field of Designing and Fabricating a PCB.



Few Glimpses of the Sessions:

