

## **Hands-on training on ‘PCB Designing’ (14-16 June 2023 )**

If semiconductors are like the organs in the human body, then a printed circuit board (PCB) is like the skeleton and vessels that give an electronic device its structure. Modern electronics as we understand them today would not be possible without PCBs, and the use of PCBs as packaging for electronic components is not going away any time soon. The PCBs in electronic devices, ranging from smartphones to the home appliances, have to be precisely engineered and carefully manufactured; otherwise products will not work correctly.

PCB design follows a specific engineering workflow that guides design teams from product concept to a fully manufacturable design. A PCB design course exposes students to a standardized workflow that is implemented throughout the electronics industry. This workflow is enforced in PCB design software, and students will have a chance to see how real projects are completed in a professional environment. This is valuable experience that would normally require a student to participate in an internship.

Focusing on the importance and necessity of acquiring practical knowledge along with the theoretical concepts, Department of Electronics and Telecommunication Engineering, Government College of Engineering, Amravati organized a three days Hands-on training on ‘PCB Designing’, in association with AMB’s C-DSP, Aurangabad (M.S.). The training program was organized for the third year students of B. Tech. (E&Tc).

The only idea behind organizing the hands-on training was to make the students acquainted with the practical fundamentals of electronic components and devices, electro-mechanical components, their dimensions (footprints), materials for Printed circuit Boards, PCB layout design. The training aimed at making the students able to design PCB for practical application circuits using these processes, on their own.

The students had a hands-on working experience of PCB layout designing, printing on the copper, Etching, Drilling, component mounting, Testing and packaging. The students designed and developed simple circuits for power supplies and function generators. The hands-on training program received an overwhelming response, with nearly 68 enthusiastic and active participants from Third year Electronics.

The hands-on training was coordinated by Prof. S. J. Meshram. Dr. P. R. Deshmukh, Head of Electronics Department, Dr. D. V. Rojatkar, Prof. R. R. Harne, Dr. S. S.Thakare extended their cooperation for the successful organization of the event. The student volunteers gave their best in managing the daily activities.

Dr. A. M. Mahalle, Principal, Government College of Engineering, Amravati congratulated the coordinators, Head of the department, faculty and staff members and students for their sincere efforts that helped making the hands-on training successful.

**GOVERNMENT COLLEGE OF ENGINEERING, AMRAVATI**

**DEPARTMENT OF ELECTRONICS ENGINEERING**

**HANDS ON TRAINING 2023**

**PCB DESIGNING**

Insightful  
Experiential  
Learning

10:30 am - 5:10 pm  
14-16 June, 2023

**Venue :**  
Microprocessor lab,  
ET-009, Electronics Dept,  
GCCEA

**Contact :**  
+91-9970411748  
www.gceea.ac.in

**Our Speaker**

Mr. Pravin Ambekar  
AMPS C-RSP  
AURANGABAD (EXPERT)

**COORDINATOR:** S. J. Meshram  
**HEAD OF DEPARTMENT:** Dr. P. R. Deshmukh

**About the program**

The hands-on training on "PCB DESIGNING" is organized by Department of Electronics Engineering, GCCEA for all the students of 3rd year (B.TE). The training will be conducted at the GCCEA premises for 03 days. The students will be able to learn and understand methods for PCB designing, required software, etc. The students will be able to make their own layout design & fabricate PCB.

