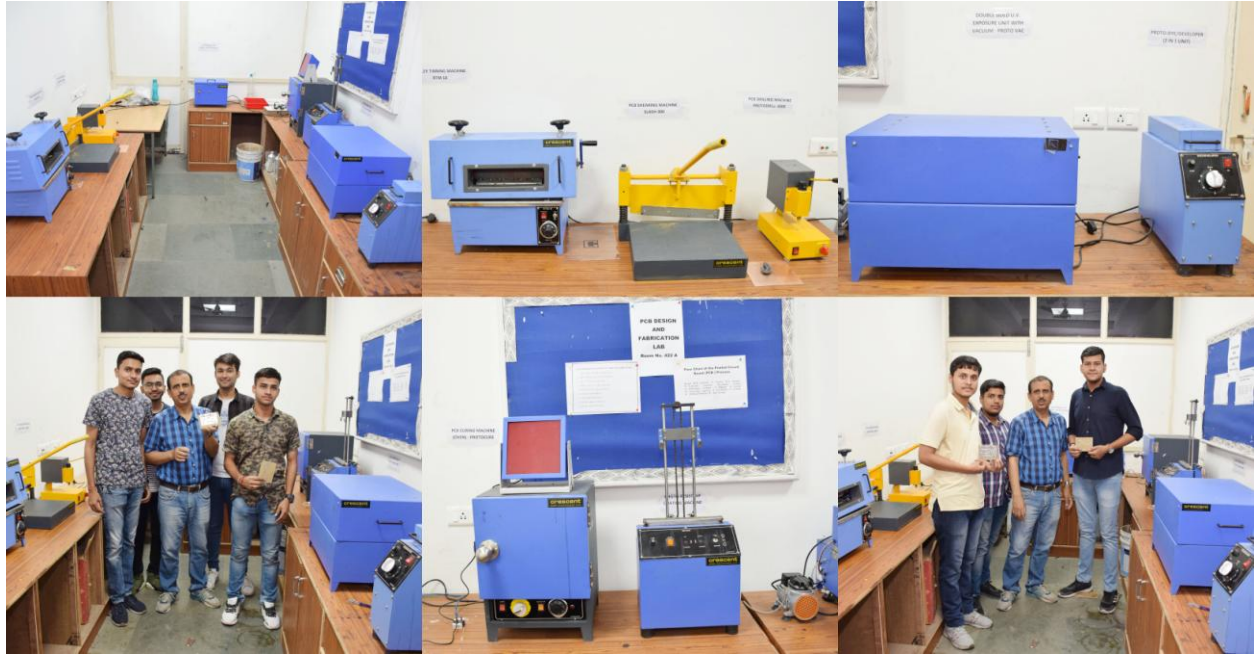


# PCB Design and Fabrication Lab

Block No.4, Room No. 422(A), ECE Deptt., MAIT



**Under MODROBS scheme we have developed this Lab:**

## **PCB Fabrication Lab (Newly Introduced Lab)**

**Facilities:** Printed Circuit Board is circuits boards formed for growing electronic components on a nonconductive board and creating conductive links between them. The conductive route is usually copper. It outfits to the need of electronic creator. Students feel real world experiences in PCB design and are occupied in developing and assembly techniques of electronic components.

Following items/ equipments have been incorporated for the above Lab:

**1.PROTO-CONTACT:** - PCB Artwork Film maker: The Proto-Contact is a tabletop unit which serves as a negative making contact printer as well as an illuminated Artwork table for Circuit Artwork taping and inspection of Films and negatives.

**2. PROCURE -2/ PCB:** Curing machine (Oven): Tabletop unit for curing of liquid photo resist. Timer controlled heating system allows fast and efficient PCB curing.

**3. PCB DRILLING MACHINE:**A compact tabletop High speed PCB drilling machine with a Quick Change Chuck

- Drill holding by precision chuck with lapped jaws.
- Mains operated DC motor- Direct drive (no belt and pulley).

- 3 step speed control.
- Illumination of Work Area
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**4. PCB SHEARING MACHINE:** Benchtop Guillotine type shearing machine to cut PCB's and Laminates.

**5. ULTRA-VIOLET EXPOSURE SYSTEM** (With vacuum): A rugged Double Sided exposure unit for PCB / Film exposure. Has a built-in vacuum pump and timer. Ideal for use where Plated thru hole PTH PCBS are to be fabricated. The frame and vacuum suction ensures a very high level of contact between film and laminate.

**6. PHOTO RESIST DIP COATING MACHINE:** The Machine is table top and compact. A single Operation unit designed for coating of laminates with Photoresist. The machine ensures uniform controlled thickness of Photoresist on copper clad.

**7. ROLLER TINNING MACHINE** - RTM 10 The RTM 10 is a tabletop unit for Tin/Solder coating of PCB's.

**8. PCB Design Layout Software:** - (Made in Germany) A simple but powerful tool to create layouts for single-sided and double-sided PCBS (Printed Circuit Boards). The software comes along with all functions that are necessary for board design.