



माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA

Deemed University
(Declared under Distinct Category by Ministry of Education, Government of India)
NAAC ACCREDITED WITH A++ GRADE



Department of Electronics and Telecommunication Engineering
in association with
IETE Students' Forum and IETE Bhopal Centre

Activity Report
"PCB Fabrication Workshop"

Date: October 11, 2025

Venue: Basic Electronics Lab, Department of Electronics and Telecommunication Engineering, MITS-DU, Gwalior

Time: 11:00AM-1:00PM

Introduction

The **Department of Electronics and Telecommunication Engineering**, in collaboration with the **IETE Students' Forum, MITS-DU**, organized a hands-on workshop titled "**PCB Fabrication Workshop**" on **October 11, 2025**. This workshop was exclusively designed for students to bridge theoretical learning with practical hardware skills.

The primary objective was to provide participants with real-time experience in designing, fabricating, and assembling Printed Circuit Boards (PCBs). By engaging in this hands-on activity, students learned the end-to-end process of turning circuit designs into functional hardware prototypes.

Event Participation and Objectives

The workshop saw enthusiastic participation from student of Electronics and Telecommunication Engineering, who actively engaged in each phase of the fabrication process, from design to testing.

Key Objectives of the Workshop:

- To introduce the fundamentals of PCB design and layout creation.
- To familiarize students with fabrication techniques such as etching, drilling, and masking.
- To provide hands-on exposure to PCB assembly and soldering methods.
- To enhance understanding of circuit behavior through practical implementation.
- To inspire innovation and technical confidence in hardware prototyping.

Workshop Framework

The workshop was conducted under the guidance of faculty members from the ETE Department, led by Dr. Himanshu Singh. It combined theoretical insights with live demonstrations and hands-on sessions.

Highlights of the Workshop:

- Introduction to PCB design tools and layout software.
- Explanation of the fabrication process including etching, drilling, and cleaning.
- Demonstration of masking, soldering, and circuit assembly.
- Hands-on fabrication session where students designed and tested simple PCBs.
- Interactive Q&A session addressing fabrication challenges and material selection.

Coordination and Execution

The event was efficiently coordinated by the IETE Students' Forum in collaboration with the Department of ETE. The collective effort of faculty and student coordinators ensured smooth execution and high engagement throughout the session.

Faculty Coordinator:

- **Dr. Himanshu Singh**, Department of Electronics & Telecommunication Engineering.
- * **Dr. Varun Sharma, Dr. Deepak Batham, and Dr. Yogesh Kumar** for their contribution to resource planning and execution.

Student Coordinators:


- Nagendra Singh Sikarwar
- Arshad Khan

The department expresses gratitude to **Dr. Vandana Vikas Thakare (Head, ETE Department)** and the **Dean (Student Welfare)** for their constant guidance and encouragement.


Conclusion and Future Prospects

The PCB Fabrication Workshop proved to be an enriching experience for students, enhancing their understanding of practical electronics. Students gained valuable skills in circuit realization and fabrication, sparking interest in future hardware-based projects.

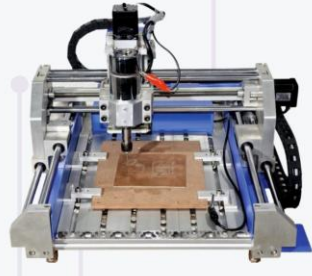
The Department of Electronics and Telecommunication Engineering, MITS-DU, aims to continue conducting such skill-oriented workshops to nurture hands-on expertise and technical innovation among students.



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**Department of Electronics & Telecommunication Engineering &
 IETE Students' Forum MITS-DU
 Presents**





PCB FABRICATION WORKSHOP



 **Saturday**
11 October 2025

 **Basic Electronics Lab**
11:00 AM- 1:00 PM

 **No Registration Fees**



Register Now

Organized by:

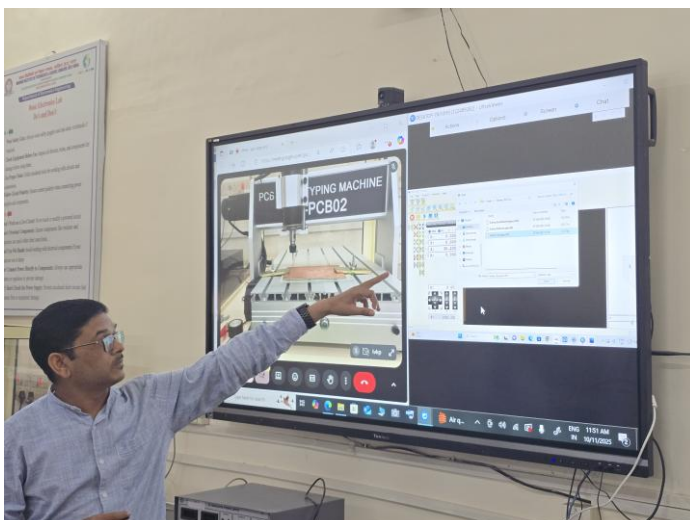
Dr. Deepak Batham
Dr. Himanshu Singh

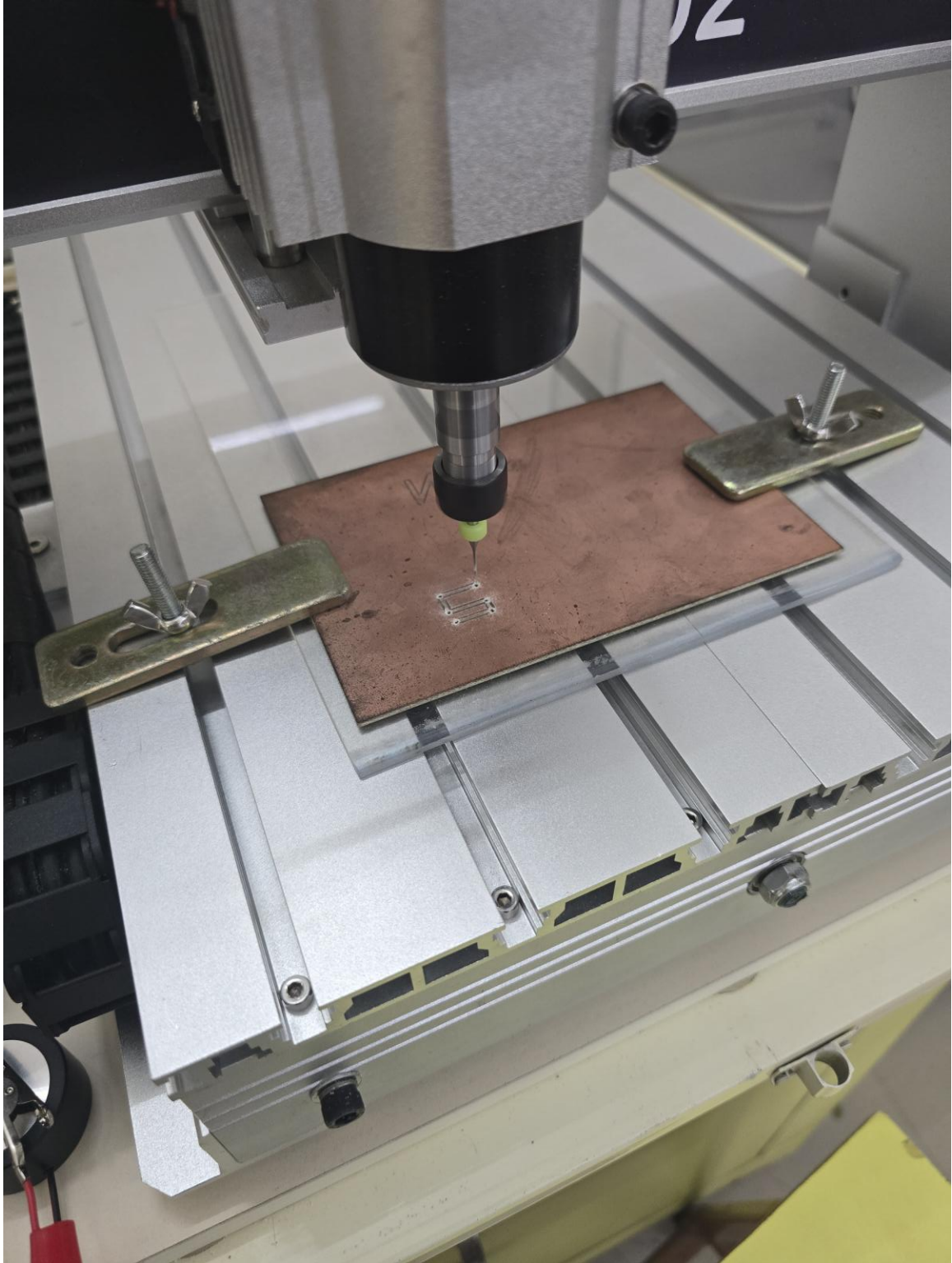
Dr. Varun Sharma
Dr. Yogesh Kumar

Dr. Vandana Vikas Thakare,
HOD, ETE Department

Coodinators: Nagendra Singh Sikarwar (7247796298) & Arshad Khan (8319430641)

Glimpses of the Workshop:







List Of Attendees:

S. No.	Name	Enrollment No.
1	Ankit Sahu	BTET24O1024
2	Aashay Sangam	BTET24O1001
3	Deepanshu Yadav	BTET24O1043
4	Honey Kushwah	BTET24O1059
5	Anand raj tripathi	BTET24O1020
6	Sumit Kumar Vishwakarma	BTET24O1133
7	Jyotiraditya Shinde	BTET24O1061
8	Amit Rathore	BTET24O1019
9	Hariom Vishwakarma	BTET24O1051
10	Mayank Sahu	BTET24O1074
11	Riya Malik	BTEL24O1107
12	Harshit Singh Sikarwar	BTET24O1054
13	Aditya Raj Sahu	BTET24O1006
14	Aman Kaurav	BTET24O1017
15	Shrikant Parashar	BTET24O1129
16	krish soni	BTET24O1066
17	Ishant Garhewal	BTET24O1060
18	Aditya Rupchand Dange	BTET24O1008
19	VISHAL BAGHEL	BTET24O1150
20	Anshuman singh bhadouria	BTET24O1028
21	Dhanendra vishwakarma	BTET24O1044
22	Anshika Gupta	BTET24O1027
23	Satwik dubey	BTET24O1118
24	Saksham Thakur	BTET24O1112
25	Vinay Savita	BTET24O1148
26	Neelkant Rathour	BTET24O1084
27	Arpit sharma	BTET24O1031
28	Dhruv Kumar Kushwaha	BTET24O1046
29	Tisha Bhimawad	BTET24O1140
30	Kartik Krishana kushwah	BTET24O1062
31	Utkarsh Sanodiya	BTMC24O1140
32	Anurag Singh Jadoun	BTET24O1030
33	Utkarsh Dubey	BTET25O3D01
34	Suhani Tomar	BTET24O1132
35	Medhavi Agarwal	BTET24O1075

36	Lavkush Prajapati	BTET24O1071
37	NAINCY JAIN	BTET24O1080
38	Shivam Singh	BTET24O1126
39	Praveen Kushwah	BTET24O1095
40	Suraj Singh Rawat	BTET24O1135
41	Nagendra Singh Sikarwar	BTET24O1079
42	Arshad Khan	BTET24O1032
43	Ankit Singh Tomar	BTET24O1025



Dr. Himanshu Singh

(Faculty Coordinator)