



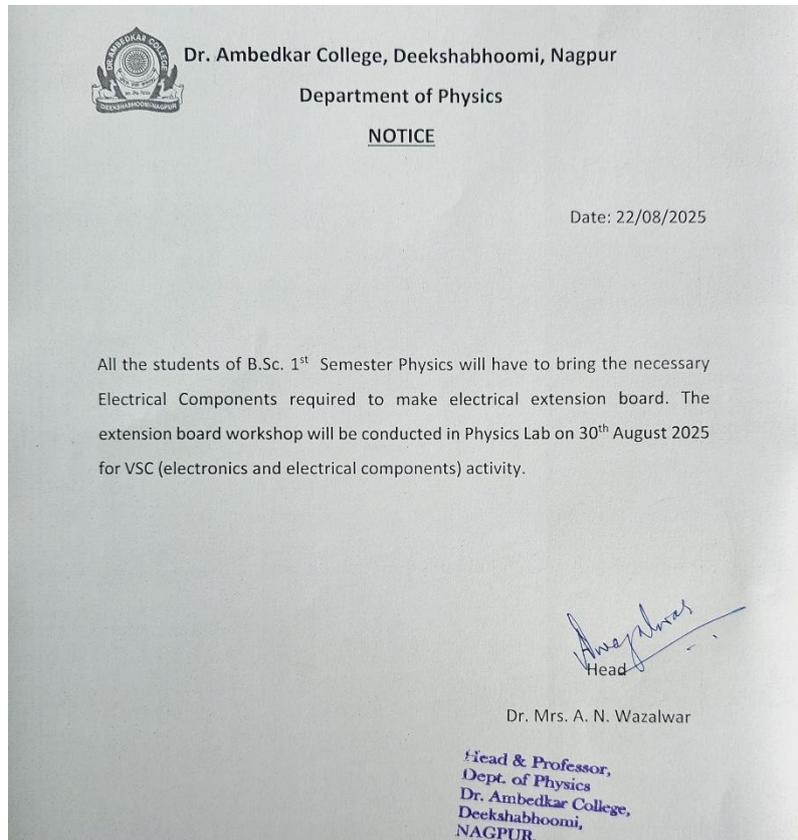
**Dr. Ambedkar College, Deekshabhoomi, Nagpur**

**Department of Physics**

**Date of Program : 30/08/2025**  
**No. of Students Present : 32**  
**Hosted by : Department of Physics**  
**Name of Program : Extension board making workshop**

**Report on Skill Enhancement Practical Activity – Making of Extension Boards**

## **NOTICE**



**Objectives:** The activity was planned with objectives:

1. To enhance students' technical skills by engaging them in real-time experimental work.
2. To foster scientific curiosity and encourage independent exploration of physical phenomena.
3. To build confidence in handling laboratory instruments and experimental setups.
4. To promote teamwork, collaboration, and effective communication among students
5. To prepare students for higher level experimental work and research orientation.

As part of the Skill Enhancement Course (SEC) practicals, the Department of Physics, Dr. Ambedkar College, Deekshabhoomi, Nagpur, organized a hands-on activity for B.Sc. Physics First Year students. The activity was designed to blend theoretical knowledge with practical application and to cultivate technical and problem-solving skills among students.

### **Preparation Phase**

About a week prior to the activity, Mr. Vinod Chaudhari Sir delivered a detailed session on the theory of electrical connections, safety measures, and the working principle of extension boards. This session equipped students with the necessary foundational understanding of circuits, wiring, and switch operations.

Following this, Dr. Arti Wazalwar, Head of the Department, instructed students to procure the required materials for making the extension boards. Students were guided to bring items such as wooden or fiber boards, switches, sockets, wires, plugs, testers, screws, and insulation tapes.

### **Activity Execution**

On 30th August 2025, the students assembled in the laboratory with enthusiasm and readiness. They brought the required materials and, under the supervision of faculty members, actively participated in the assembly and wiring of extension boards.

The activity involved:

- Fixing switches and sockets on the baseboard.
- Making proper electrical connections with insulated copper wires.
- Ensuring correct phase, neutral, and earth wiring as explained in theory sessions.
- Testing the final product for functionality and safety using testers.

The students worked in groups, which encouraged teamwork, collaboration, and peer learning. Faculty members closely monitored the process, ensuring safe handling of electrical components and correcting mistakes wherever required.

The extension board-making activity turned out to be a fruitful learning experience for the B.Sc. First Year Physics students. The guidance of Mr. Vinod Chaudhari Sir and the encouragement provided by Dr. Arti Wazalwar, Head of Department, were instrumental in the success of this program.

Such activities under the Skill Enhancement Course not only improve students' practical knowledge but also nurture innovation, technical ability, and self-reliance, preparing them for future academic and professional endeavours.

### **Outcome of the Activity**

By the end of the session, students had successfully constructed working extension boards. They expressed excitement and a sense of accomplishment, as the task not only gave them hands-on exposure but also taught them the practical utility of physics concepts in daily life.

This activity helped students:

- Understand real-life applications of electricity and circuits.
- Develop skills in safe handling of electrical devices.
- Gain confidence in assembling and testing electrical setups.

- Learn the importance of accuracy, patience, and safety in practical work.



## FEEDBACK:

