



# IETE STUDENTS' FORUM (ISF)

## INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS

Created by - Chanpreet Kaur



The IETE Students' Forum (ISF) at Guru Nanak Dev Engineering College, Ludhiana, hosted a practical and informative workshop on Mobile Chipset Repairing and Software Automation on 11th April 2025. The event was designed to provide students with essential hands-on experience in hardware and software troubleshooting of modern smartphones. This initiative helped bridge the gap between classroom learning and real-world technical skills.

The event was organized through the guidance of:

- Dr. Munish Rattan – Head of Department, ECE
- Dr. Gurburneet Kaur – ISF Coordinator
- Dr. Shivmanmeet Singh – ISF Secretary

**IETE STUDENTS FORUM**  
Department of Electronics and Communication Engineering  
Guru Nanak Dev Engineering College, Gill Park, Ludhiana

**WORKSHOP**

**MOBILE CHIPSET REPAIRING**  
**<and\_>**  
**<Software Automation>**

**By**  
**MR. ABHISHEK**

**11 July 2025**  
**10:30 AM**

**Mechanical Seminar Hall**

**/isfgndec**

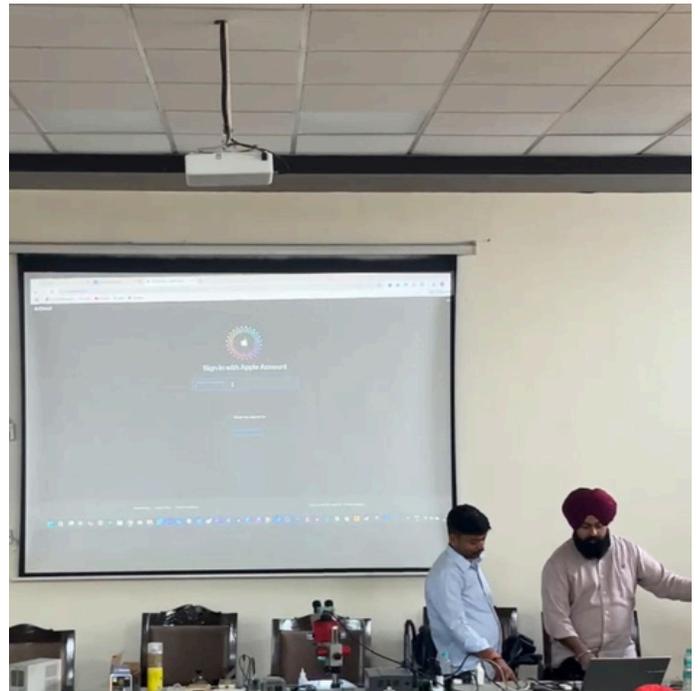
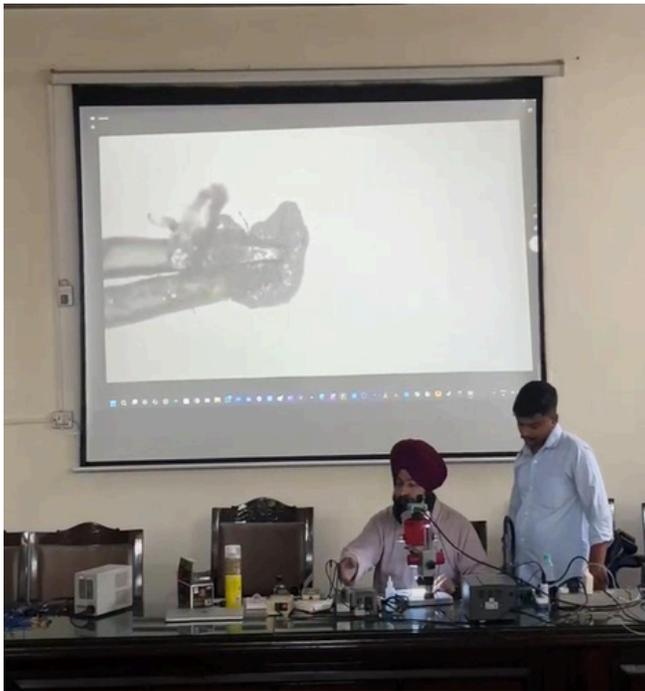
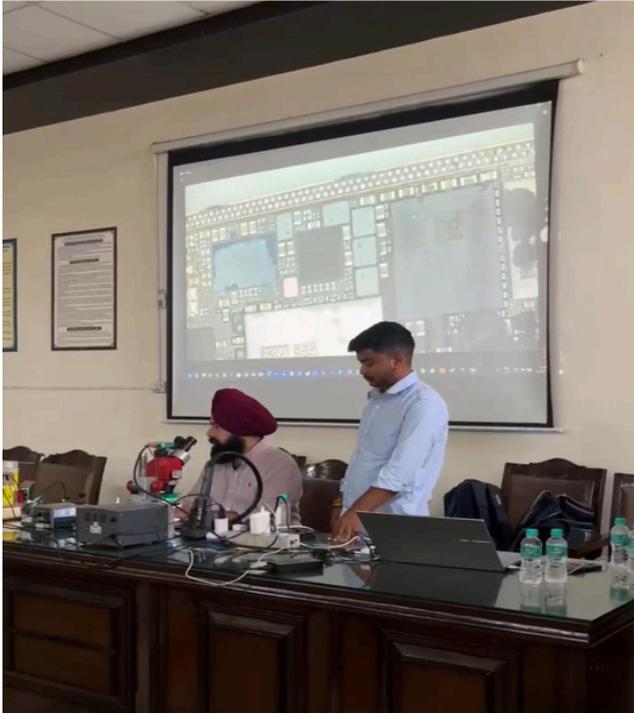
## **WORKSHOP-OVERVIEW**

The session was expertly conducted by Mr. Harjot and Mr Abishek, specialists in mobile chipset repair and embedded systems. He provided an in-depth demonstration of chip-level repair techniques, showcasing the use of professional equipment such as digital microscopes, and diagnostic software. A significant portion of the workshop focused on the Apple A13 Bionic chipset, where participants examined its architecture, identified critical components on the motherboard, and explored rework methods commonly applied in modern smartphone servicing. In addition, the workshop covered practical aspects of soldering and desoldering components on the logic board, along with guidance on how iPhone servicing is professionally carried out, including common troubleshooting workflows and repair practices followed in industry labs.

## **LEARNING-OUTCOMES**

- Participants gained hands-on experience in identifying and repairing mobile chipset hardware faults.
- Understand mobile chipset architecture, especially Apple chipsets.
- Learn techniques for micro-soldering, IC removal, and board-level diagnostics.
- Gain exposure to tools used in software automation and boot repair.
- Develop awareness of real-world mobile hardware faults and their solutions.
- Enhance employability in hardware repair, embedded systems, and mobile servicing domains.

# GLIMPSES OF THE WORKSHOP





## **ACKNOWLEDGEMENT**

A deep heartfelt thanks to Dr. Munish Rattan (Head of the ECE Department) for his constant encouragement, academic guidance, and visionary leadership in supporting such industry-oriented initiatives.

A special thanks to Dr. Gurpurneet Kaur (Coordinator, ISF) and Dr. Shivmanmeet Singh (Secretary, ISF) for their tireless efforts in planning, coordinating, and overseeing every aspect of the event. Their dedication played a pivotal role in ensuring smooth execution and meaningful learning for all participants.

A special thanks to Mr. Abhishek and his team for conducting such a practical and enriching session. The workshop witnessed enthusiastic participation from students, reinforcing ISF's commitment to organizing industry-relevant learning opportunities.

The efforts of the student volunteers and ISF team members are acknowledged who worked diligently behind the scenes to manage logistics, technical support, and participant engagement. Finally, all the participants for their enthusiastic involvement, active learning spirit, and curiosity that made the session interactive and fruitful.