A Report on Industrial Visit to "E-Box Recyclers, Bengaluru" Organized by Department of Computer Science and Engineering on 03.09.2026

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Faculties Accompanied: Dr. P. Kavitha, Associate Professor; Dr. N. Krishnaiah, Associate Professor; Dr. Senthil Kumar. K, Assistant Professor; Mrs. G. B. Renuka, Assistant Professor, Department of CSE
Mode of Conduct: Offline
Student Participation: CSE–C: 41 students; CSE–E: 31 students; Total: 72 students
Report Received on 05.09.2026.

Company Details

Company Name	E-Box Recyclers
Nature of Organization	E-Waste Recycling Company
Location	Shed No. B-03, KSSIDC Industrial Estate, Veerasandra 2nd Stage, Huskur Road, Electronic City, Bengaluru, Karnataka – 560100

Objectives

1. To provide students with practical exposure to electronic waste (e-waste) management and recycling practices.
2. To understand the stages involved in the collection, segregation, dismantling and processing of electronic waste.
3. To observe how electronic equipment and components are handled systematically within an e-waste recycling facility.
4. To understand the importance of separating different materials and components for recovery and recycling.
5. To create awareness about the environmental impact of improper disposal of electronic and electrical equipment.
6. To bridge the gap between classroom learning and real-world industrial practices through direct observation and demonstration.
7. To interact with industry personnel and gain practical insights into e-waste recycling operations and safe handling practices.

Report Summary

The Department of Computer Science and Engineering organized an industrial visit to E-Box Recyclers, Bengaluru, on 03.09.2026. A total of 72 students participated in the visit, comprising 41 students from CSE–C and 31 students from CSE–E, accompanied by four faculty members.

The visit was organized to provide students with direct industrial exposure to electronic waste management and recycling. At the facility, the students received an orientation and technical briefing on the handling and processing of e-waste. The

industry personnel explained the importance of systematic collection, segregation, dismantling and recovery of useful materials from discarded electronic equipment.
Students were taken through the operational areas and observed labelled storage and segregation sections. The photographs captured during the visit show dedicated areas for segregation and storage, large quantities of cables and electronic equipment, and practical workstations used for dismantling.
A practical demonstration was conducted at the dismantling area, where students observed the handling of electronic equipment and components. The demonstration helped students understand how discarded devices are systematically dismantled and separated into different material/component categories for further processing.
The visit also provided an opportunity for students to interact with personnel and observe equipment-related activities. Overall, the industrial exposure helped students connect their academic understanding of computers, electronic systems and hardware with practical e-waste management and recycling operations.

Technical Topics Discussed

- Introduction to Electronic Waste (E-Waste)
- Sources and Types of E-Waste
- Collection and Handling of E-Waste
- Segregation and Classification of Electronic Waste
- Storage and Identification of Recyclable Materials
- Dismantling of Computers and Electronic Equipment
- Identification and Separation of Electronic Components
- Cable and Wiring Material Handling
- Material Recovery and Recycling Practices
- Safe Handling of Electronic Equipment and Components
- Environmental Impact of Improper E-Waste Disposal
- Sustainable E-Waste Management Practices
- Industrial Practices in E-Waste Recycling

Demonstration and Industrial Exposure

The key highlight of the industrial visit was the practical demonstration of e-waste processing and dismantling activities. The students were introduced to the workflow followed inside the facility and were shown how discarded electronic equipment is organized before further processing.

The students observed a clearly marked segregation area and storage sections containing electronic materials and cables. They were guided through the dismantling station, where electronic equipment was opened and components were separated in a systematic manner.

The demonstration gave students a practical understanding of the importance of segregation, component identification and careful dismantling. It also helped them appreciate the role of organized recycling facilities in recovering useful materials and reducing the quantity of electronic waste requiring disposal.

The interaction with the industry personnel made the learning experience more effective by allowing students to observe actual industrial work practices and clarify their questions during the visit.

Outcome of the Event

The industrial visit provided students with valuable practical exposure to e-waste recycling and helped bridge the gap between classroom learning and industrial practice. The students gained a clearer understanding of how electronic equipment is collected, segregated, dismantled and prepared for material recovery.
The visit enhanced awareness of responsible e-waste disposal, resource recovery and environmental sustainability. The direct observation of dismantling stations, segregation areas and stored electronic materials provided a practical perspective that cannot be obtained through classroom instruction alone.
The interaction with industry personnel also improved students' awareness of workplace practices, safe handling of electronic materials and the importance of systematic processing in e-waste management.

Key Learning Outcomes

- Gained practical exposure to e-waste collection, segregation and recycling operations.
- Understood the importance of systematic segregation of electronic waste.
- Observed dedicated storage and segregation areas within an industrial facility.
- Observed practical dismantling of computers and electronic equipment.
- Learned how components and materials are separated during dismantling.
- Gained awareness of cable and electronic material handling.
- Understood the importance of responsible disposal and recycling of electronic equipment.
- Developed awareness of environmental sustainability and resource recovery.
- Interacted with industry personnel and gained practical industrial insights.
- Understood the relevance of computer hardware and electronic equipment knowledge in e-waste recycling.

- Gained exposure to an organized professional industrial environment.

Conclusion

The industrial visit to E-Box Recyclers, Bengaluru, on 03.09.2026 was highly informative and fruitful. The visit provided 72 students from CSE–C and CSE–E with valuable practical exposure to e-waste management and recycling activities.

The orientation, technical explanations and demonstrations enabled students to understand the practical stages involved in handling electronic waste, particularly segregation, storage, dismantling and component/material recovery.

The visit successfully enhanced students' understanding of the relationship between computer and electronic systems and responsible e-waste management. It also created awareness about the environmental importance of recycling and the need for systematic handling of discarded electronic equipment.

The Department of Computer Science and Engineering sincerely appreciates the support, guidance and valuable practical demonstration provided by E-Box Recyclers, Bengaluru, and the industry personnel who interacted with and guided the students during the visit.

Photographic Documentation

The following photographs document the major stages of the industrial visit, including student participation, orientation, technical interaction, e-waste segregation, dismantling activities and practical observation of electronic equipment.

Figure 1: CSE–C students and faculty at E-Box Recyclers, Bengaluru.

Figure 2: CSE–E students and faculty at E-Box Recyclers, Bengaluru.

Figure 3: Orientation and technical briefing on e-waste recycling processes.

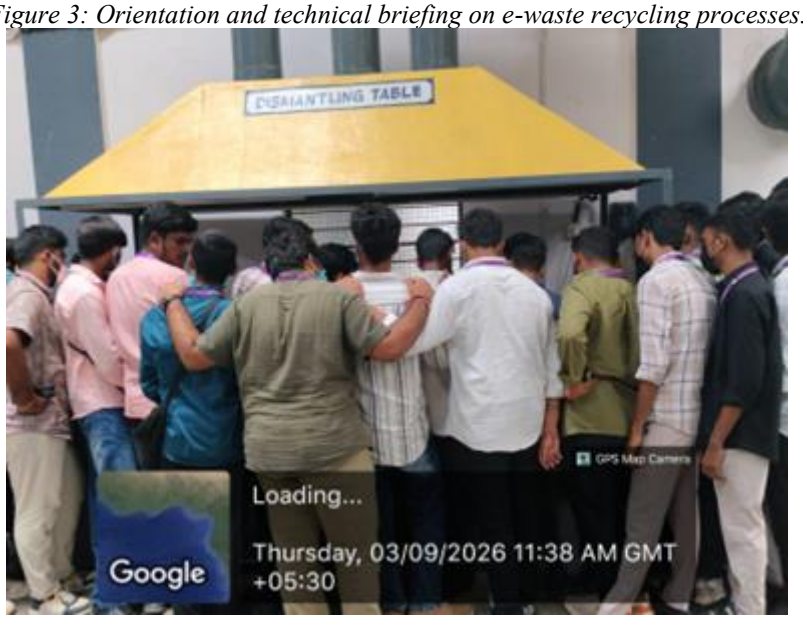

Figure 4: Demonstration of dismantling activities at the e-waste recycling facility.

Figure 5: Students observing the PC dismantling station and component handling.

Figure 6: Students observing practical dismantling and segregation of electronic equipment.

Figure 7: Demonstration and observation of cable/electronic material processing.

Figure 8: Students observing electronic equipment and server-related components during the visit.