



# DON BOSCO INSTITUTE OF TECHNOLOGY

Premier Automobiles Road, Kurla West, Mumbai - 400070

ISHRAE  
Thane Chapter

## Report on - Walk Through around DBIT

**Title:** Walk through around DBIT

**Date:** 12 September, 2023

**Time:** 2:00 to 3:00 pm

**Venue:** Don Bosco Centre of Learning

**Target Audience:** Mechanical Engineering Students.

**No. of Participants Present:** 13

**Resource Person:** Prof. Cleto Pereira.

**Organization of Resource Person:** Don Bosco Institute of Technology.

**Organizing Department / Committee / Authority:** ISHRAE Thane Chapter.

**Faculty Coordinator:** Prof. Cleto Pereira.

### Objectives:

- ❖ To Enhance Practical Knowledge with hands-on exposure to real-world situations, enabling them to apply theoretical concepts in practical settings effectively.
- ❖ To help students directly observe and interact with real-world AC and refrigeration systems, helping them develop practical knowledge.
- ❖ To ensure that participants understand and adhere to safety protocols, reducing the risk of accidents and injuries along with basic knowledge of maintenance.

### Outcomes:

- ❖ Enhanced confidence in their ability to work with AC and refrigeration systems in professional settings.
- ❖ Enhanced familiarity with various types of AC and refrigeration units.
- ❖ Increased ability to perform routine maintenance tasks effectively.

### Detailed Report:

An informative walkthrough of the HVAC (Heating, Ventilation, and Air Conditioning) systems across campus was conducted. The event was organized to provide students with a practical understanding of HVAC technology and its applications. The walkthrough commenced with a brief introduction by Professor Cleto where basics of cycles and systems were explained. Throughout the walkthrough, participants were introduced to a diverse range of domestic AC units, each serving unique purposes. The water cooler, a staple in homes and workplaces, was presented as an appliance designed for one primary function - to provide chilled and refreshing drinking water. Its straightforward cooling mechanism, often involving a refrigeration cycle, ensures a continuous supply of cold water for hydration.



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The concept of air curtains was elucidated, emphasizing their role in maintaining indoor comfort while preventing outdoor elements, such as dust, insects, or hot air, from entering enclosed spaces. Students gained an understanding of how air curtains create an invisible barrier of air, optimizing temperature control and enhancing energy efficiency in commercial setting. A comprehensive exploration of various refrigerator types was conducted, encompassing top-freezer, bottom-freezer, and side-by-side configurations. Participants delved into the layouts, temperature zones, and energy-efficient features characteristic of these household appliances. This segment aimed to foster awareness of the diverse choices available to consumers when selecting refrigeration solutions. The walkthrough extended its focus to industrial refrigeration systems, which are engineered for larger-scale and commercial purposes. Students were introduced to the immense capacity and crucial role these refrigerators play in preserving vast quantities of perishable goods, such as food and pharmaceuticals. Understanding the significance of industrial refrigeration in supply chains and logistics was a key takeaway. This comprehensive overview of domestic AC and refrigeration units provided participants with valuable insights into the functioning and applications of these cooling systems. It aimed to broaden their awareness of the everyday technologies that contribute to comfort and convenience in both residential and commercial environments. During the walkthrough, participants gained a fundamental understanding of basic maintenance practices for these domestic AC units. They learned how to perform routine tasks like cleaning filters, checking coolant levels, and ensuring proper ventilation to prolong the lifespan and efficiency of these appliances. This knowledge empowers them to take proactive measures in maintaining their cooling systems effectively.

## Snapshot of the Event:





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## Feedback Analysis:

Several participants noted the practical knowledge they gained during the walkthrough, particularly in terms of basic maintenance practices, was invaluable. They felt more confident in their ability to troubleshoot and ensure the efficient operation of cooling systems in their homes or future workplaces. Overall, the feedback analysis indicates that the walkthrough effectively met its educational objectives, leaving participants better informed and equipped in the field of HVAC technology and cooling systems.

## Social Media Links:

<https://instagram.com/ishraedbit?igshid=MzRIODBiNWFIZA==>

## Registration Details:

No. of DBIT Students: 13

**Report Prepared By:** Umera Shaikh

**Name of the Student:** Umera Shaikh

**Post of the student:** Women in ISHRAE

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**Report Approved By:** Prof. Clet Pereira

**Name of the Faculty:** Prof. Clet Pereira

**Post of the Faculty:** Faculty Coordinator