



# **DON BOSCO INSTITUTE OF TECHNOLOGY**

**AICTE APPROVED, AFFILIATED TO MUMBAI UNIVERSITY,  
ISO 9001:2015, NAAC ACCREDITED WITH B++ GRADE**

## **DEPARTMENT OF MECHANICAL ENGINEERING**

# **ISHRAE THANE DBIT STUDENT CHAPTER**

## **SUMMARY REPORT ACADEMIC YEAR 2020-2021**

Document Title: ISHRAE DBIT Student Chapter Summary Report AY 2020-2021		
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## 1.0 INTRODUCTION

### 1.1 About ISHRAE

The Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE), was founded in 1981 at New Delhi by a group of eminent HVAC&R professionals. ISHRAE today has over 28,780 HVAC & R professionals and Student-members. ISHRAE operates from over 42 Chapters and sub Chapters spread all over India, with HQ in Delhi. It is led by a team of elected officers, who are members of the Society, working on a voluntary basis, and collectively called the Board of Governors.

### 1.2 ISHRAE Objectives

- Advancement of the Arts and Sciences of Heating, Ventilation, Air Conditioning and Refrigeration Engineering and Related Services.
- Continuing education of Members and other interested persons in the said sciences through Lectures, Workshops, Product Presentations, Publications and Expositions.
- Rendition of career guidance and financial assistance to students of the said sciences.
- Encouragement of scientific research.

### 1.3 ISHRAE In DBIT

ISHRAE DBIT is the student chapter of Don Bosco Institute of Technology, Kurla with ISHRAE Thane chapter as the parent chapter. ISHRAE DBIT has its own Chapter Working Committee under the Presidentship of Ms. Sheena Fernandes from BE Mechanical and Prof. Cleto Pereira as the Faculty In-charge. ISHRAE in DBIT has given our students great opportunities with each passing year. DBIT has been a part of ISHRAE since 2013. It was initially led by Prof. Sarangi. ISHRAE conducts various activities in DBIT and for the students of DBIT.

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Sr. No	Name	Designation
1	Sheena Fernandes	President
2	Saurabh Yadav	President Elect
3	Noel Sequeira	Secretary
4	Rushikesh Deshmukh	Joint Secretary
5	Anjaney Thakur	Treasurer
6	Prajakta Patil	Co - Treasurer
7	Jeston Saldanha	Tech Head
8	Priya Kundu	PR head
9	Priti Warang	CWC
10	Karan Punjabi	CWC
11	Anuranjini Komban	CWC
12	Bhavesh Wallecha	CWC
13	Anjishnu Datta	SCM
14	Tejas Paymode	SCM

**Table 1. List of CWC Members of ISHRAE DBIT**

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## **2.0 ACTIVITIES**

### **2.1 Installation Ceremony on 29<sup>th</sup> August, 2020**

ISHRAE DBIT Student Chapter under ISHRAE Thane Chapter conducted the Installation ceremony for the new CWC members of the academic year 2020-21 followed by a interactive session on MYTHS AROUND HVAC and PSYCHROMETRY for the students of Don Bosco Institute of Technology. The ceremony was held on the virtual platform using the Zoom meeting on 29th August, 2020 from 6:00 pm to 8:30 pm. Around 76 participants attended the program.

Dr. Prasanna Nambiar, Principal, DBIT and Dr. N.M. Rao, HOD of Mechanical Engineering Department, DBIT appreciated the work done by ISHRAE in DBIT and expressed gratitude for ISHRAE Thane Chapter. Mr. Manish Gulalkari, President of ISHRAE Thane Chapter started the Oath taking ceremony. This was followed by Ms. Hemlata Pail, Student Activity Chair, ISHRAE Thane Chapter and Mr. Saurav Patil, Student Sub Committee Member, ISHRAE Thane Chapter speaking about the advantages of ISHRAE for student members.

Finally, the guest speaker Mr. Subodh Moghe who has an experience of 21 years in the HVAC Industry ranging from refrigeration unit design, cold storages, Liquefaction plants & HVAC system design started the interactive session of Myths around HVAC & Psychrometry. After the event, the feedback received from the participants showed that the event was a grand success.

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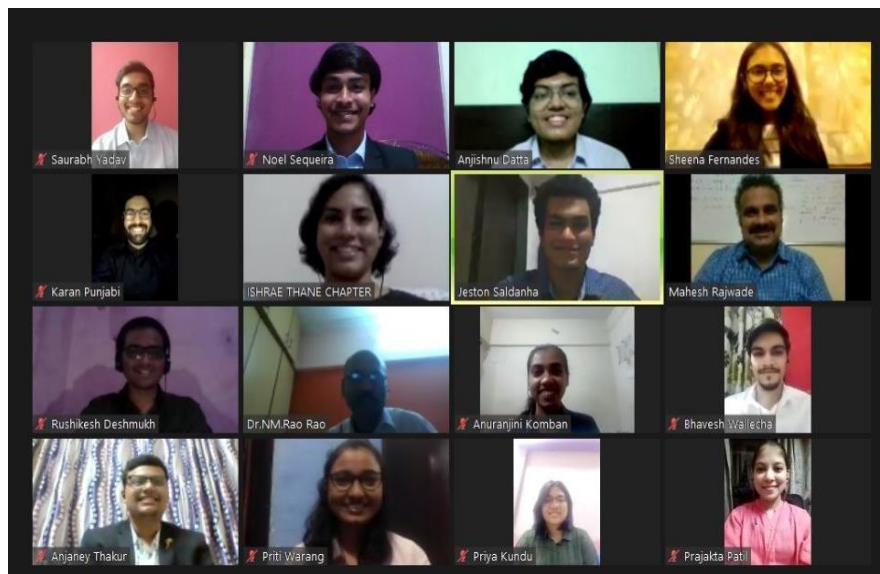


Figure 1 : The HOD, Faculty Coordinators and the CWC of ISHRAE DBIT.

## 2.2 Fundamic Quiz Contest from 13<sup>th</sup> June to 17<sup>th</sup> June, 2020

Fun-Damic Quiz Contest 2020 was conducted for the Mechanical Engineering Students. The contest was held in three rounds through online mode on 13 June, 15 June, 17 June 2020 respectively.

33 students participated in round 1 on 13th June, 2020 which consisted of solving an HVAC and R related word search puzzle. The fastest and correct 16 replies were qualified for round 2 on 15 June, 2020. Round 2 consisted of several categories: Solve the mystery, guess the sports from the pictures, intelligence test, general knowledge questions and math riddles. Fastest and correct 8 replies entered the final round on 17 June, 2020. Round 3 consisted of : general knowledge, math riddles and technical knowledge questions of HVAC and R in the form of a crossword puzzle.

First place winners were : Mr. Aniket Dalvi and Mr. Anvesh Thanekar.

First runners-up were : Mr. Samish Rane and Mr. Vishal Achari.

All 4 winners received certificates from ISHRAE Thane Chapter. Active participation of students and team work of the ISHRAE DBIT Student Chapter made this quiz grand success.

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Figure 2 : Flyer for the Fun-Damic Quiz Event

### 2.3 ISHRAE Thane Chapter Quiz Contest on 26<sup>th</sup> June, 2020

ISHRAE THANE CHAPTER organized an intercollege Quiz contest on the occasion for the celebration of Refrigeration day. The quiz contest began on 15th June, 2020. This contest is an online based wherein 140 students from 6 different colleges attended the event, including 16 students from DBIT.

The first event took place on 15th and continued till 18th June, 2020. At DBIT, the tests were conducted internally on 16th June, 2020. The top 3 students with high scores are chosen for the second round. The second round was conducted online on zoom meeting by ITC on 21st June, 2020. All 3 students from DBIT qualified for the 3rd round as well.

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All 3 students received certificates from ISHRAE Thane Chapter : Anjishnu Datta (2nd Place), Samish Rane (4th place) and Mohd Awaiz Shaikh (6th Place).

The final round was held on 26th June, the refrigeration day. Mr. Anjishnu Datta from DBIT won this contest and received a cash prize of Rs. 1000 and a certificate of participation from ISHRAE Thane Chapter.



Figure 3: ISHRAE Thane Chapter Quiz Competition Poster

## 2.4 Paint Your HVAC&R Perspective conducted on 5th October, 2020.

"Paint Your HVAC&R Perspective - Portray your Vision towards HVAC&R World"; A digital poster making competition, held from 1st October to 5th October. The competition was conducted online, open for all branches and colleges, the respected participants

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mailed their posters to us and were scrutinized unbiased. The competition came to be an enthusiastic, at-home event with a creative experience.

The aim of the event was to create a poster without any restrictions on ideas based on the theme “your Vision towards HVAC&R World”. It was also a medium of invitation to become a member of ISHRAE DBIT family. A total of 10 students participated from DBIT as well as other colleges.

The competition had 3 winners :

1. Winner - Vishal Umesh Achari from DBIT who received a certificate and cash prize of Rs. 700 from ISHRAE Thane Chapter.
2. 1st Runner up - Samish Harishchandra Rane from DBIT who received a certificate and cash prize of Rs. 500 from ISHRAE Thane Chapter.
3. 2nd Runner up - Lisha Rachel Shaji from DBIT who received a certificate and cash prize of Rs. 300 from ISHRAE Thane Chapter.

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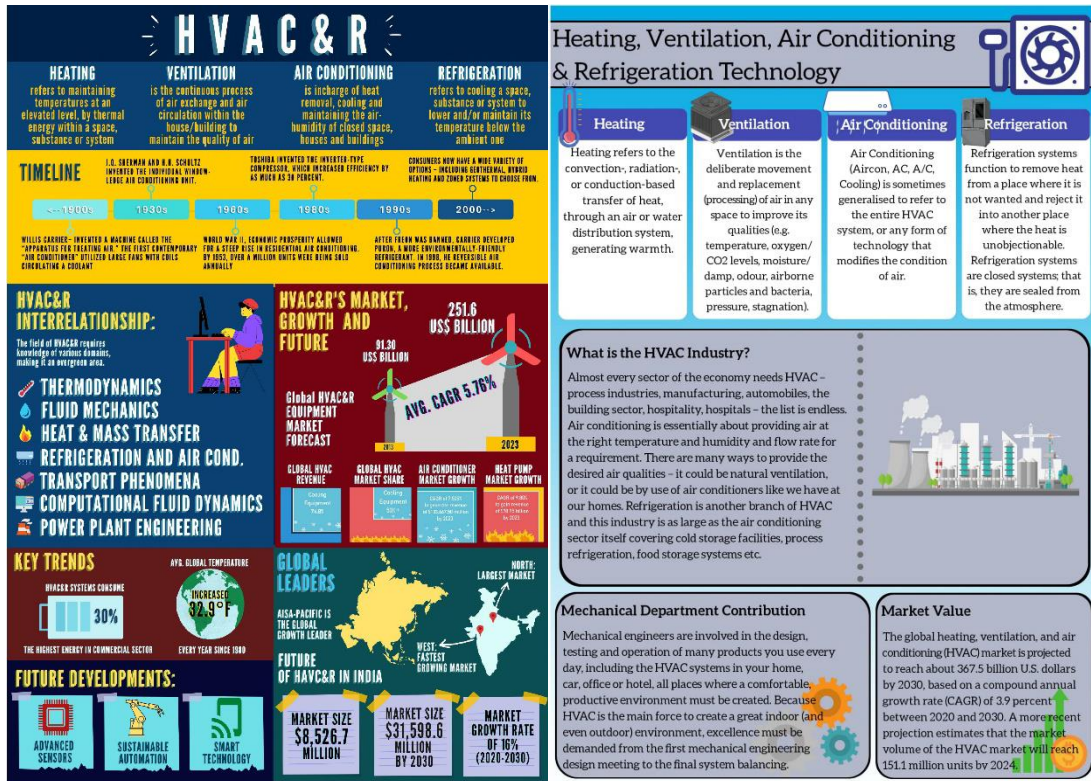


Figure 5 : Posters made by the 1st and 2nd Place winners of the competition.

## 2.5 K12 Event on ‘Tips and Tricks in Maths and Science’ on 1st February, 2021

“Tips and tricks of Maths and Science”, a K12 activity was held on 1st February at 11 AM. The activity was conducted online with the students of Shishu Vikas Mandir, Kurla (West). Aim of this event was to make the budding generation aware of the technical world with a twist of fun learning and the event was conducted with great enthusiasm. Three sessions of 20 minutes each were conducted where planned physical experiments were performed and explained by ISHRAE DBIT CWC Members.

The first session was held by Rushikesh Deshmukh (Joint secretary), who performed an experiment related to energy conservation and friction, laminar Flow, Newton’s 3rd law and its uses. Furthermore, he explained it in an entertaining way by using balloons and

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cartoon pictures which helped the students to open up and be interactive during the session.

The second session was of Vedic maths, and was conducted by Anuranjini Komban (CWC). It was full of enthusiasm where many students participated in solving math problems after explaining the tips and tricks for solving math in less time.

The third session was conducted by Anjishnu Dutta (SWC) and Ashley D'Souza (BE ISHRAE DBIT member). Experiments like invisible fire, balloons on a straw, base/acid indicators, grabbed the students' attention as it was performed live along with sharing fun facts.

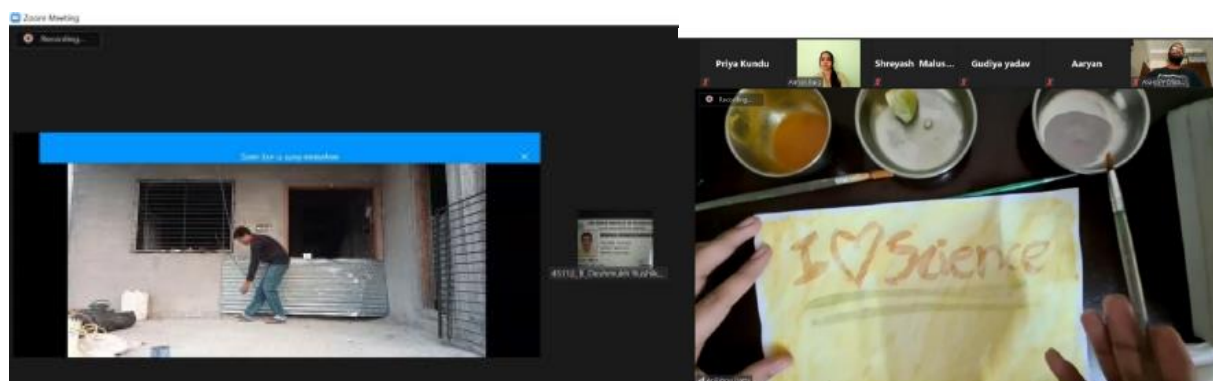


Figure 5 : Experiments performed during the K12 session

## 2.6 Science Mela at Smt. Sulochanadevi Singhania School, Thane on 15th February, 2021

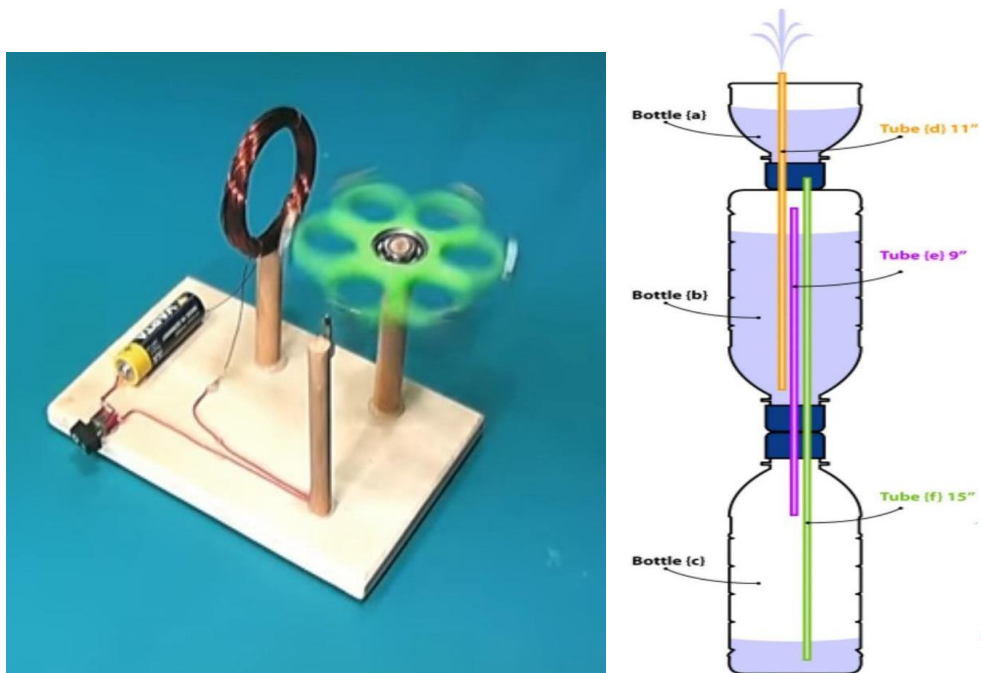
ISHRAE THANE CHAPTER conducted a Science Mela on 15th February, 2021 for the students of SMT. Sulochanadevi Singhania school, Thane. This initiative was taken by the Rotary Youth Program of Enrichment (RYPEN) of Thane, North to enrich school students with experiments in science. The aim of this year's Science Mela was to make the students aware about the 'Psychological Effects Of Social Media.' The event started with the addressing of ISHRAE Thane Chapter by program in-charge Mr. Manish, it then was followed by ISHRAE students demonstrating their experiments.

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From DBIT ISHRAE Student Chapter two projects were presented : Rotating fidget spinner using electromagnetic principle by Saurabh Yadav (President - Elect) and Heron's Fountain by Jeston Saldhana (Technical Head). After the demonstration of the experiments, a talk on the negative effects of social media among the youths was given by one of the heads of the Rotary Club.

The winner of Science Mela, based on concept, efforts to demonstrate working model and confident presentation was Saurabh Yadav from DBIT. Saurabh received a certificate and a cash prize of Rs. 1000 from ISHRAE Thane Chapter.



**Figure 6 : Experiments performed during the Science Mela session**

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