

[2017-18]

STUDENT BODIES: ISHRAE-VCET STUDENTS CHAPTER

1) Event details: ISHRAE Student Chapter Installation (2017-18)

Title & Date: ISHRAE Student Chapter Installation, Date: 18th August 2017.

Objective: ISHRAE Student Chapter Installation

Speakers: Mr. Sanjay Varma (Student Activity Chair-Mumbai Chapter),

Photos:



2) Event details: MECH-EXPO 2K17

Title & Date: 15th September 2017

Objective:

MECH-EXPO 2k17 is a Mechanical Product Showcase Event where different firms and industries presented their Product in College Campus. A total of more than 15 Companies handed over their finished product or models which were presented before the Students, Professors and Industrial Professionals. The initiative of explaining the Manufacturing Process, requirements, Construction, Working and Applications was also taken over by the members of core committee. The relationship with the Industries was handled with utmost care by the volunteers themselves which included transportation, Paper work, Handling, Publicity, Management and much more.

Photos:



3) Event details: Industrial Visit

Title & Date: **Auro Engineering Company, Andheri., 31 January 2017.**

The aim of the Industrial visit at the **Auro Engineering Company, Andheri**, was to gain an overview of the Manufacturing, Testing of various elements related to HVAC&R system. Auro Engineering Company manufactures and exporters of all types of heating and cooling coils for Air conditioners (window, split, precision, rooftop, dehumidifiers and humidifiers), AHUs, Package Units, FCUs, Chillers, Dryers, Cold Storages, Refrigeration Products etc. Mr. Mihir Sanghavi explained in detail the manufacturing of heating coils, different types of heating coils were displayed for the students. The use of different types of coil, their manufacturing procedure and storage ways were explained to students.



4) Event details: ISHRAE STUDENTS TECHNICAL LEAGUE. (ISTL-2018)

Title & Date: ISHRAE STUDENTS TECHNICAL LEAGUE. (ISTL-2018), July 27, 2017
ISTL-2018

ISHRAE student technical league 2018 was held for first time in ISHRAE Mumbai chapter. All colleges who are registered within ISHRAE Mumbai chapter were invited to participate in this competition. This competition was held with the purpose of encouraging upcoming engineers to take interest in HVAC&R field. Also giving students an exposure of HVAC&R industry.

On ISHRAE Mumbai chapter invited our college committee members for discussing the project and assigned a mentor to guide us in this project. Our mentor company was NOVA initiative which is a HVAC&R company based in Mahim, Mumbai. On that day we were introduced to our mentor Mr. Ajit Panickar (CEO, NOVA Initiative). Throughout Mumbai 15 colleges had participated in this competition. The project given, was common to all the participants. Each and every college committee was assigned with a mentor who is well versed in HVAC&R field. The assigned project was a case of a IT/Commercial building in Nagpur. The commercial park was one plus six storey building having 4th floor as a refugee area, a basement for parking purpose, each floor had eight offices, a common lobby and corridor, with each Office having its own AHU room. Our aim was to provide best air conditioning system as a solution to the assigned project. Throughout this project we were guided by the two HVAC engineers at NOVA initiative, Mr. Soham Daftary and Mr. Bilal Metkar. The steps which we followed for implementing the solution were as follows:

- Heat load calculation and concept development.
- Preliminary machine selection & System design.
- Preliminary System design finalization.
- Final machine selection & detail final HVAC layout.

The heat load calculation was done with the help of Bilal sir and Soham sir. The next step was to select a suitable system for the building. After understanding the pros and cons of various conditioning systems we concluded that 'Inverter Direct-drive Full Falling Film Centrifugal Chiller' would be the best system for a given building design. It is latest type of system developed by MIDEA Company and has been implemented in prestigious buildings of China. To get more information on this type of system we also came in contact with Regional Head of MIDEA Company who guided us on this system. As this system was satisfying all our criteria and had great savings in terms of electricity, capital and operational cost, we finalized it.

On January 10, 2018 elimination round was organized between all the colleges who participated in ISTL. Time duration of 30 minutes was provided to every team for presentation. The presentation had to be done in front of experienced HVAC engineers. As the results of elimination rounds were announced we were selected in top 5 teams among 15 colleges. And the final round was going to be held at Hotel Atithi in andheri on January 19, 2018. On the day of final presentation, affiliation ceremony for subject toppers and affiliation ceremony of final year students who got their placement through ISHRAE Job Junction was held too.

Teams which qualified for ISTL 2018 were from following colleges:

- Vidyavardhini's College of engineering and technology.
- Dwarkadas J. Sanghvi College of engineering.
- Sardar Patel College of engineering and technology.
- Saboo Siddik College of engineering.
- Lokmanya Tilak College of engineering and technology.

The judge's panel consisted of Founders and CEOs of respected HVAC&R firms. Our presentation was praised by all the judges and cost analysis of the project which we included in our presentation attracted them towards our proposed idea and the way of approach towards the project was applauded by the audience and judges too. As the results were announced we were awarded for the 'Best Innovative Design' as well as we came as 3rd runner up in the competition. We were affiliated by the respected judges' panel.

Success of our project was due to guidance of our mentors at NOVA initiative i.e. Mr. Ajit panickar (CEO), Mr. Soham Daftary and Mr. Bilal Metkar, Encouragement by Respected V. D. Patel sir for the competition and teamwork and skills of all the members of the group i.e.

- Harsheel Mehta (BE MECH A)
- Abhishek Shah (TE MECH A)
- Shantanu Sawale (TE MECH A)

Moreover toppers of specific Subjects related to HVAC&R were felicitated with Cash Prizes as follows:

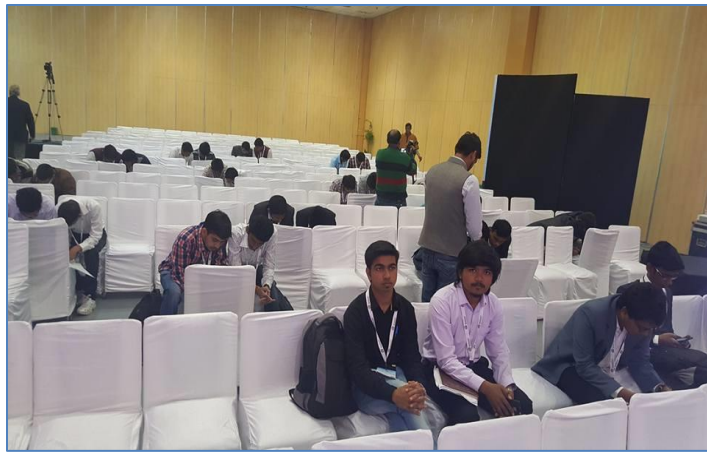
1. 'Jay Timbadia' (RAC) : Rs.5000
2. 'Ankita Sheoran' (Heat transfer): Rs.2000
3. 'Mayur Shinde' (Thermodynamics) : Rs.2000



5) Event details: AQUEST

Title & Date: AQUEST, 23rd December 2017

The inter-collegiate engineering quiz competition being conducted during ACREX which aims at reaching out to the many ISHRAE Student Chapters all over the country & recognize talent from even the remotest places. To enable this, the event had been divided into Four zone events culminating in finals during Acrex. The competition had a uniformity of format so that the students face a similar elimination process. The elimination Round at College level was conducted on 23rd December, 2017 to send the best teams from our college for Chapter Level round. Out of the 13 members participated members two were selected on basis of the quiz similar to Aquest and a team was formed as follows:



AQUEST Student elimination round for Mumbai Chapter was conducted at Rajiv Gandhi Institute of Technology on Saturday 23rd December, 2017. We stood 7th in the elimination round defeating other teams but couldn't make it to the next round.

6) Committee details:

- **Staff details**

Staff Name	Department	Contact no (College extension no)
Vinay D. Patel	Mechanical Engineering	9890811839

- **Student details (Only core committee)**

SR NO	FULL NAME	POST
1	Harsheel Mehta	President
2	Shrushti Ghoshalkar	Secretary
3	Ajay Rai	Treasurer
4	Moulik Prajapati	Organizing Head
5	Ganesh Sawaji	Technical Head
6	Parag Patil	Task Force Head
7	Mitesh Shinde	Creative Head
8	Abhishek Shah	Vice-President
9	Gauravi Patil	Deputy Secretary
10	Raj Dige	Deputy Treasurer