

ACADEMIC YEAR
2019-20



DEPARTMENT OF MECHANICAL ENGINEERING, MBCET

ISHRAE (Office bearers)



Name of the Student	Office post
MR. ADITH SURESH	President
MR. SIBI PONNACHAN	President-Elect
MR. MOBISH ABRAHAM	Secretary
MR. NIKHIL S RAJ	Treasurer
MS. SALMA ASRAFF	CWC member
MR. ANANDU J	CWC member
MR. SAJIN SHAJI	CWC member

Office bearers for next academic year:

Mr. Sibi Ponnachan (President), Ms. Salma Asraff (Secretary), Mr. Anandu J (Treasurer), Ms. Arva S Swami (CWC member), Mr. Zac Zachariah (CWC member), Mr. William George (CWC member), Mr. Akhil P (CWC member), Mr. Pratyush Moni S J (CWC member)

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. 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. ISHRAE objectives are 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, Expositions and Encouragement of scientific research. ISHRAE conducts Conferences, Seminars, Exhibitions, Workshops, Panel Discussions and Product Presentations throughout the country with both national and international participants to discuss, promote and display the state of the art technologies, systems, products and services.

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.

ISHRAE Mission:

To promote the goals of the Society for the benefit of the general public. Towards this objective, the Chapters of the Society participate in, and organize, activities to protect the Environment, improve Indoor Air Quality, help Energy Conservation, provide continuing education to the Members and others in the HVAC & related user Industries and offer certification programs, career guidance to students at the local colleges and tertiary institutions.

ISHRAE Activities:

As part of its objectives to promote the interests of the HVAC&R Industry, ISHRAE is involved in various activities. ISHRAE reaches out to all its members and seeks their active participation & involvement in all the Events/Programs organized by the society.

ISHRAE student chapters in more than 150 engineering colleges encourage students to opt for careers in the HVAC&R industry. Knowledge dissemination is done through seminars, quiz contests like aQuest, plant and site visits.

ISHRAE has launched “ISHRAE Job Junction” nationally, providing a platform for leading employers to recruit candidates who are members from ISHRAE student chapters.

K-12 initiative of ISHRAE is focused on school students’ contests, in making them aware of subjects like, energy conservation and environmental concerns through drawing competitions, poster design, quiz and planting of trees. Emphasis on STEM education is

stressed to inculcate a scientific fervor & help develop these young children into responsible citizens.

Research: ISHRAE promotes research in the field of HVAC&R technology. It offers financial support to Graduate/Post Graduate students, to carry out innovative work on R & D in Technology, Systems, and Processes. ISHRAE partners with Industry to carry out scientific research t Institutes associated with ISHRAE for this purpose.

ACREX INDIA: ISHRAE organizes ACREX INDIA, the largest international exposition in South Asia on the Air-Conditioning, Refrigeration, Ventilation and Building services industry. Held annually, ACREX with nearly 500 exhibitors is considered to be a major opportunity to showcase the latest technologies/innovations, and provide a platform for buyer-seller meet, for technical & commercial personnel in the HVAC&R field.

Publications: ISHRAE publications strive to help its members & the industry keep up-to date with the technical developments, latest trends, and sunrise technologies. ISHRAE Standards, Fundamental books on various topics, HVAC&R Handbooks and the extremely popular & informative ISHRAE Journal, are a few such publications.

ISHRAE MEMBERSHIP LIST

S18065950	MR. NIGEL KURIAN THOMAS	S18066337	MR. ADARSH J THOMAS
S18065952	MR. MUHAMMED N	S18066343	MR. ANANTHU M
S18065953	MR. NIMAL KOSHY	S18066366	MR. GEORGY JOSEPH
S18065984	MR. ROSHAN ROY	S18066377	MR. ARUN KUMAR R B
S18065991	MR. ADHITHYAN VENUGOPAL	S18066406	MR. JITHIN BABU
S18066022	MR. MELVIN VARGHESE	S18066411	MR. ARAVIND J B
S18066023	MR. VIMAL GEORGE	S18066499	MR. ANAND JAMES
S18066031	MR. ANANDU J	S18066540	MR. JEFFERSON ALOYSIOUS
S18066037	MR. PRANAV SANTHOSH	S18066550	MR. GOKUL KRISHNAN S
S18066064	MR. JIBIN MATHEW	S18066642	MR. ARUN A
S18066079	MR. GAUTHAM SANAL	S18066672	MS. ARVA SHAMSUDHEEN SWAMI
S18066080	MR. SUDIN R	S18066751	MR. FAZIL MOHAMMED MS
S18066081	MR. AROMAL R	S18066754	MR. ATHUL SUNNY
S18066085	MR. JENSENE THOMAS JAMES	S18066775	MR. PRIJITH VARGHESE
S18066087	MR. MANESH DANIEL MATHEWS	S18066783	MR. JIBIN JOSEPH
S18066088	MR. AMALJITH K BALAN	S18066836	MR. MOBISH ABRAHAM SHAJI
S18066089	MR. HASEEB SALIM	S18066842	MR. ABHIJITH S
S18066095	MR. ANANDA NARAYANAN N	S18066843	MR. GANESH A
S18066097	MR. ABRAHAM VARGHESE	S18066924	MR. DEEPAK L
S18066098	MR. ASHWIN KOSHY MATHEW	S18066971	MS. SALMA ASRAFF
S18066109	MR. GEORGE KOSHY AMPANAT	S18066979	MR. ASHIN SAKKEER
S18066113	MR. ADITH SURESH	S18067979	MR. JAMES S
S18066211	MR. ANU SIMON		
S18066214	MR. ABRAHAM ISAC		
S18066218	MR. AGRAJ A NATH		
S18066220	MR. RUBEN M GEORGE		
S18066222	MR. VISHNU V R		
S18066230	MR. SAJIN SHAJI		
S18066232	MR. ANWAR A		
S18066236	MR. NITHIN SOHAN		
S18066238	MR. THOMAS P JOHN		
S18066252	MR. LIBIN K LUKOSE		
S18066277	MR. NIGEL THOMAS MUKULAMPURATHU		
S18066290	MS. LINSHA WATSON		
S18066307	MR. ARUN K SUNDARAM		
S18066311	MR. NIKHIL S RAJ		
S18066312	MR. SUMESH S M		
S18066313	MR. VIVEK J S		
S18066315	MR. JERLIN THOMAS SAJI		
S18066320	MR. SREENATH NAIR		
S18066327	MR. ASHWIN SURESH SIVADAS		

ISHRAE ANNUAL INSTALLATION CEREMONY

Venue: Seminar Hall, Department of Mechanical Engineering

Date: 22nd February, 2019

ISHRAE-MBCET STUDENT CHAPTER installation ceremony took place at the campus on 22nd February. The program started off with the National Anthem, followed by a technical talk and introduction to ISHRAE by Prof. Udayakumar (Students chapter Chair - South, ISHRAE).

The office bearers of ISHRAE MBCET STUDENT CHAPTER took oath during the ceremony. The session was attended by officials from ISHRAE, Prof. Udayakumar (Students chapter Chair - South, ISHRAE), Mr. K Ganeshan (Founder president, ISHRAE Trivandrum chapter), Mr. Krishna Kumar R (President Elect, ISHRAE Trivandrum chapter) and Mr. Asok Ayyappan (Program Chair, ISHRAE Trivandrum Chapter), Mr. Rajesh T N (Head of Department of Mechanical Engineering), Staff and student members of ISHRAE, Mar Baselios College of Engineering and Technology.



ACTIVITIES

- **WORKSHOP ON HVAC&R AT HVACO INSTITUTE**
Workshop on Basics of refrigeration and air-conditioning system and an introduction to latest trends in service sector
- **ISHRAE JOB JUNCTION**
Job Junction is a placement program in which students are given opportunities to attend interviews conducted by prominent HVAC&R employers.
- **TECHNICAL TALKS on Basics of Air-conditioning systems & Types of Air conditioners** by Mr. Santhosh.K and **Cold Storage Basics** by Mr. Vijay Bhaskar organized by ISHRAE Trivandrum Chapter.
- **INDUSTRIAL VISIT** organized by ISHRAE Trivandrum chapter at **Trivandrum International Airport**
- **TECHNICAL TALK** on Air-conditioning system fundamentals at Trivandrum International Airport
- **INDUSTRIAL VISIT** to **VSSC, Thiruvananthapuram** organized by ISHRAE MBCET

WORKSHOP ON HVAC&R AT HEVACO INSTITUTE

Venue: HEVACO Institute of HVAC Engineering, Thirumala, Trivandrum

Date: 10th January 2019

Description:

The one-day workshop at HEVACO Institute was a great experience to the students. 15 students from MBCET attended the workshop on basics of refrigeration and air-conditioning systems and an introduction to latest trends in service sector organized by ISHRAE Trivandrum. The sessions were handled by experienced HVAC professionals from various sectors and the students had a practical exposure to the various HVAC equipments and systems.

Photos:



ISHRAE JOB JUNCTION

Venue: Loyola ICAM College of Engineering, Chennai

Date: 17-18th January 2019

Description:

A highly anticipated program conducted by ISHRAE TRIVANDRUM CHAPTER at Mar Baselios College of Engineering and Technology was ISHRAE Job Junction. Job Junction is a placement program in which students are given opportunities to attend interviews conducted by prominent HVAC&R employers. Student members from Department of Mechanical Engineering attended the initial screening test conducted by ISHRAE in which 26 students qualified the initial screening and were invited for interview conducted at Loyola ICAM College of Engineering, Chennai. First stage of Interviews was conducted on January 17-19 and 12 students attended the same.

There were numerous companies like Pavani Engineers, Bakelite Hylam Ltd, Kirloskar Chillers Pvt Ltd., Thermoaircon, Eakcon Systems Pvt Ltd., Boulton Trading Corporation, ALP Aeroflex India Pvt Ltd., JVS Air systems, Weather dynamics, Maruthi Airconditioners, Akshada aircon systems pvt ltd, etc. from HVAC&R area to recruit candidates.

Recruitment process for each company was separate and the students were allowed to register for a maximum of three companies per day. Recruitment process included Group Discussion or screening test and Technical Interviews. More than 500 students from entire South India were present at the venue. 3 students from MBCET were shortlisted.

<https://jobjunction.ishrae.in/>

TECHNICAL TALKS on Basics of Air-conditioning systems & Types of Air conditioners and Cold Storage Basics

Venue: Hotel Horizon, Trivandrum

Date: 16th March 2019

Description:

Two technical talks were conducted on 16th March 2019 at Hotel Horizon. The technical talks titled, “Basics of Air-conditioning systems & Types of Air conditioners” by Mr. Santhosh.K and “Cold Storage Basics” by Mr. Vijay Bhaskar organized by ISHRAE Trivandrum chapter. The talks covered majority of the basic air-conditioning systems and cycles. A brief introduction was given about the various components of AC systems and there working. The talk also covered the basic concepts of cold storage. The benefits, limitations and various systems of cold storage. The students could relate the talk with their academics and the sessions were very informative.

20 student members from Department of Mechanical Engineering attended the technical talks.

INDUSTRIAL VISIT and TECHNICAL TALK at Trivandrum International Airport

Venue: Trivandrum International Airport, Trivandrum

Date: 26th October 2019

Description:

The technical talk on Air-conditioning system fundamentals and Industrial visit organized by ISHRAE Trivandrum chapter at Trivandrum International Airport was a memorable experience for all the students. The students were able to visualise and understand the working of compressors, condensers, expansion devices, air ducts, water filter, fire and safety valves, cooling towers etc. and other components of HVAC system of the airport.

22 students and a faculty member from MBCET attended the technical talk on basics of air-conditioning system, followed by the plant visit to Trivandrum International Airport.



INDUSTRIAL VISIT at VIKRAM SARABHAI SPACE CENTRE

Venue: VSSC, Trivandrum

Date: 2nd February 2020

Description:

Industrial visit to VSSC, Thiruvananthapuram organized by ISHRAE-MBCET student chapter on 14.02.2020

24 students and 1 faculty from Mechanical Department, MBCET attended the same.

ISHRAE-MBCET chapter organized a one-day industrial visit for its members to “VIKRAM SARABHAI SPACE CENTRE”, THIRUVANANTHAPURAM, KERALA on 14th FEBRUARY, 2020 for technical knowledge enhancement of students.

The aim of the visit was to train the students for adapting to the changing scenario of technology and provide the students with practical knowledge in the field of mechanical engineering.

The students were able to view the RFF facility. They had a brief introduction regarding the precautions, activities and other safety measures to be followed at VSSC. They were able to see the most advanced machines used in rocket fabrication and obtain an insight on the various manufacturing technologies used, the testing section of rockets, welding section and a brief introduction to R&D works.

During the visit students had a brief introduction to manufacturing processes used for propulsion system parts. Other areas like Precision works at VSSC, Engineering drawings and design of components, Research & development breakthroughs at VSSC, Manual and automatic testing methods, Different major components used in the making of rockets, Brief introduction regarding the new projects to be launched were also briefly introduced during the visit.

