

# Report

## Short Term Training Program on "**DESIGN AND DRAFTING OF HEAT VENTILATION AND AIR CONDITIONING SYSTEMS**"

As a humble beginning-towards empowerment of our society through technology to create a better tomorrow, Department of Mechanical Engineering, Sagar Institute of Science Technology and Research (SISTec) Ratibad campus conducted a Short Term Training Program on "**DESIGN AND DRAFTING OF HEAT VENTILATION AND AIR CONDITIONING SYSTEMS**" from 26<sup>th</sup> - 30<sup>th</sup> August 2019. This STTP was sponsored by Rajiv Gandhi Prodhogiki Vishwavidyalaya Bhopal (RGPV) under **TEQIP-III**.

The training program deals with HVAC system fundamentals and components, system design, equipment erection, equipment maintenance and detail engineering of Central HVAC Systems including Duct Air Systems with dedicated training sessions covering detailed applications & usage of codes & standards like ASHRAE. Upon completion of this course the participant will be able to learn to use codes & standards of HVAC industry. This STTP give the intensive exposure to a topic through presentations and discussions led by multiple experts.

The conference inaugural function was graced by **Dr. Ajit Parwani** Associate Professor, IITRAM Jabalpur as Chief Guest and **Mr. Aizaz Timrizi**, Project Manager Controls (Installation & commissioning), Technical Head & Project Engineer, Sofcon PVT Ltd as Guest in presence of **Dr. Jyoti Deshmukh**, Principal, SISTec Ratibad Campus.

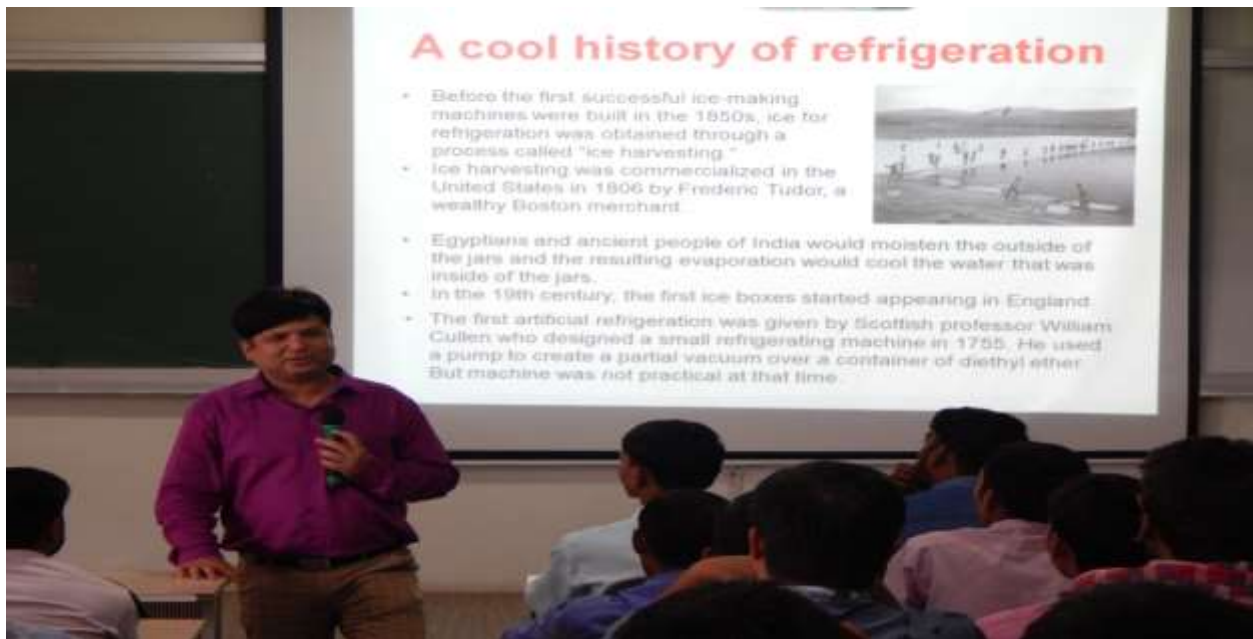
**Dr. Ajit Parwani** in her inaugural speech emphasizes on the requirement of current skill in the fresh graduating technocrats. He said that the automation in the industries required professional with knowledge of new advance skills.

**Dr. Jyoti Deshmukh**, Principal SISTec-R, welcomed the chief guest and participants. She briefly discussed the backdrop against which the STTP had been organized. She extended his heartfelt gratitude to all the Speakers and Participants





## Expert Session by Dr. Ajit Parwani Sir on topic Basics of VCRS System and HVAC System





**Expert Session by Mr. Faisal Khan on topic HVAC Systems and current Market Trends, career as HVAC Engineer**



**Expert Session by Dr. Udayraj on topic Heat Load Calculation, Psychrometric and Human comfort**



**Hands on Training on HVAC Control systems, HVAC Designing & Drafting, HAP tool and Design of Duct Sizer/ Pipe Sizer**







## Valedictory function and Vote of Thanks.







Prof. Rahul Agrawal, Coordinator of STTP concluded the session with Thanking to RGPV who gave us the opportunity to conduct this conference under TEQIP-III, Management of Sagar Group and all the Expert speaker and participants.

**Outcome of STTP:**

Vision of this conference is to promote excellence in scientific knowledge and innovations in the field of mechanical engineering and related disciplines to motivate young researchers.

**The main Outcomes of STTP are:**

- Identify problems in Heat Ventilation and Air conditioning equipments
- Properly size HVAC systems, design HVAC systems, correctly install HVAC system following the relevant codes and industry practice
- Articulate the purpose and operation of HVAC system components, the operation of HVAC systems, diagnose, repair faults and perform maintenance on HVAC systems
- Demonstrate understanding of industry standards and practices.
- Visits of ongoing projects (Hospital/ Mall).

