

STUDENTS
© ISHRAE



Mr. Sujit Kumbhar
K-12 Chair 2023-2025
Kolhapur Chapter

ISHRAE

KOLHAPUR CHAPTER

Indian Society of Heating, Refrigerating and Air-
Conditioning Engineers (ISHRAE)

Science, Technology, Engineering and Mathematics
(STEM) Activity

Topic: Demonstration of Engineering Instruments and its
practical uses in daily usage

Date: 30th April, 2024, 10.00 am

Venue: Sharad Science and Commerce College, Yadrav, Ichalkaranji,
Kolhapur



Mr. Vijay Patil
Treasurer 2024-25
7620443426

Mr. Yogesh Gandhi
Secretary 2024-25
9860858581

Mr. Avesanemad Husainy
President- Elect 2024-25
8007005860

Mr. Pramod Pungaonkar
President 2024-25
9422582626

Points Covered:

1. **Power Meters:** Power meters measure the electrical power consumption of devices, equipment, or entire buildings. They help identify energy-intensive areas and quantify energy usage accurately.
2. **Thermal Imaging Cameras:** These cameras detect infrared radiation to visualize temperature variations in equipment, buildings, or systems. They are used to identify heat losses, insulation issues, and inefficient thermal processes.
3. **Flow Meters:** Flow meters measure the flow rate of liquids or gases in pipelines or systems. They help in assessing energy losses due to leaks, inefficient flow patterns, or oversized equipment.
4. **Light Meters:** Light meters measure the intensity of light in lux or foot-candles. They are used to evaluate lighting systems' efficiency, identify over-illuminated areas, and assess the need for lighting upgrades or controls.



