

Guest Lecture

# Energy Saving

Auditing for a Sustainable Future Environment

 23 April 2026

 02:30 PM - 04:30 PM

 6<sup>th</sup> Semester Students

 Library Video Conference Hall

## Faculty Coordinator

**Prof. Kartheek Vankadara**  
Assistant Professor - EEE

## Convenor

**Dr. S Sujitha**  
HoD - EEE

**Dr. Revathi V**  
Dean - R&D

**Dr. R.J.Anandhi**  
Dean - Academics

**Dr.Manjunatha**  
Principal

Organised by

Department Of Electrical and Electronics Engineering



**Mr. Aruna Kumara T S**

MD and CEO  
SEESCON, Bengaluru

# Guest Lecture on Energy Saving Auditing for a Sustainable Future Environment

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**Title: Energy Saving Auditing for a Sustainable Future Environment**

Date: 23 April 2026

Organized for: 6th Semester Students – Department of Electrical & Electronics Engineering

Venue: New Horizon College of Engineering, Bengaluru

Resource Person: Mr. Arunakumara T S, MD & CEO, SEESCON, Bengaluru

## 1. Introduction

The Department of Electrical & Electronics Engineering organized a guest lecture on 'Energy Saving Auditing for a Sustainable Future Environment' on 23rd April 2026 for the 6th semester students. The lecture was delivered by Mr. Arunakumara T S, MD & CEO of SEESCON, Bengaluru. The guest lecture on “*Energy Saving Auditing for a Sustainable Future Environment*” was organized to create awareness among students about the importance of energy conservation, efficient utilization of resources, and sustainable development practices. The session emphasized the role of energy auditing in reducing energy consumption and environmental impact.

## 2. Objectives of the Lecture

- To introduce the concept of energy auditing
- To highlight methods of energy conservation in industries and households
- To promote sustainable environmental practices
- To create awareness about reducing carbon footprint

## 3. Highlights of the Lecture

The lecture covered several key aspects, including:

- **Energy Auditing Basics:**  
Definition, types (Preliminary & Detailed), and importance
- **Energy Conservation Techniques:**  
Efficient lighting systems, energy-efficient motors, and smart energy management
- **Industrial Energy Auditing:**  
Case studies demonstrating energy savings in industries
- **Sustainability Concepts:**  
Renewable energy integration and environmental protection
- **Government Policies & Standards:**  
Overview of energy efficiency programs and regulations

#### 4. Applications Discussed

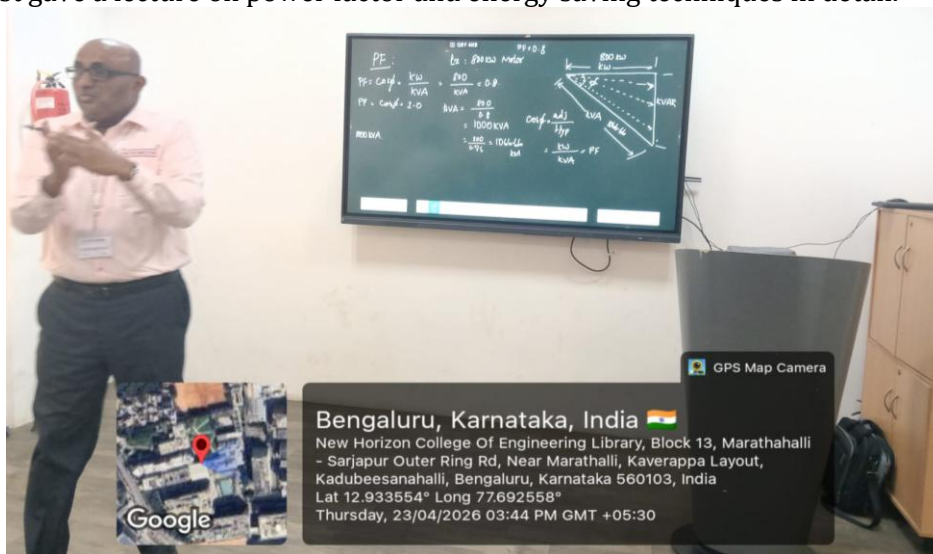
- Industrial Energy Auditing
- Smart Buildings & Home Automation
- Renewable Energy Integration
- Power System Optimization
- Educational Institutions & Campus Audits
- Transportation & Electric Vehicles
- HVAC Systems Optimization
- Government & Smart City Projects

#### 5. Event Photographs

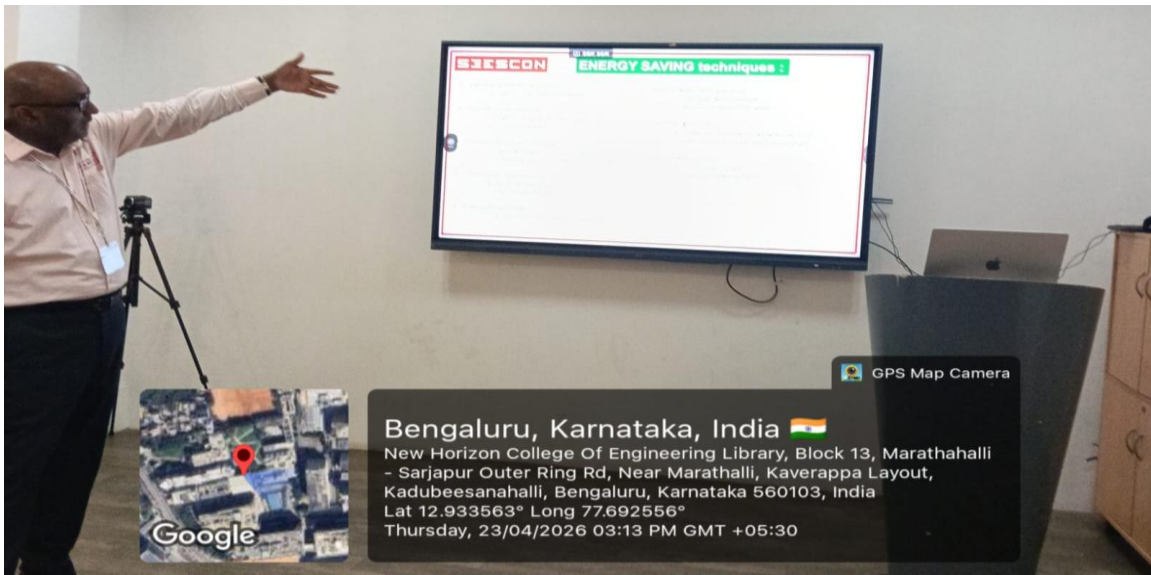


Inauguration of the guest lecture by lighting the lamp

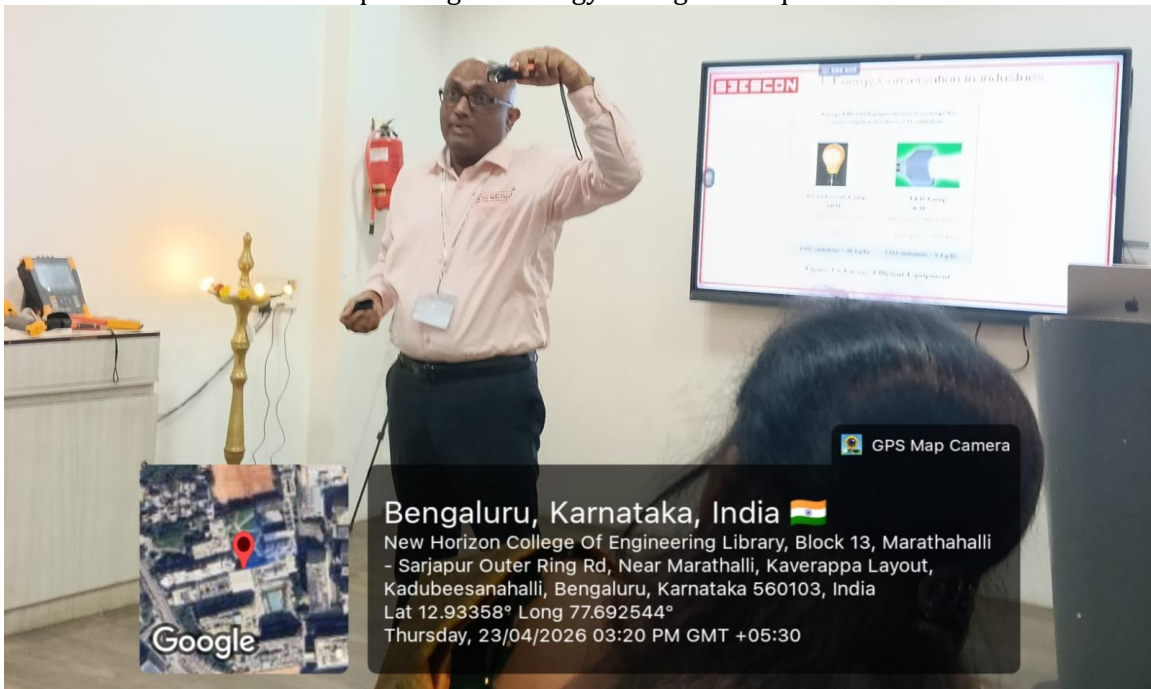
The guest gave a lecture on power factor and energy saving techniques in detail.



Giving a lecture on power factor and its dependence with respect to the manufacturer's specifications of the equipment



Explaining the energy saving techniques



Explaining the working of anemometer and its use in the industry

The guest has delivered the utilization of several instruments like clamp meter, airflow meter, anemometer, temperature sensor, thermal imager as well as power quality analyzer.

## 6. Learning Outcomes

- Understand Energy Auditing Concepts  
Explain the principles, types (preliminary and detailed), and significance of energy auditing in various sectors.

- **Analyze Energy Consumption Patterns**  
Identify areas of energy loss and evaluate energy usage in electrical systems, industries, and buildings.
- **Apply Energy Conservation Techniques**  
Suggest practical methods to improve energy efficiency such as efficient lighting, motor optimization, and load management.
- **Enhance Problem-Solving Skills**  
Apply engineering knowledge to solve real-time energy efficiency problems in industries and institutions.
- **Promote Environmental Responsibility**  
Develop a sense of responsibility towards reducing carbon footprint and supporting sustainable development.
- **Prepare for Professional Practice**  
Build foundational knowledge useful for careers in energy auditing, power systems, and sustainability domains.

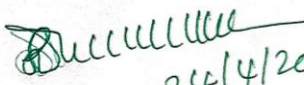
## 7. Conclusion

The guest lecture on “*Energy Saving Auditing for a Sustainable Future Environment*” was highly informative and impactful. It provided valuable insights into the importance of energy auditing as a tool for identifying energy losses and improving efficiency across various sectors. The session effectively highlighted practical approaches to energy conservation, integration of renewable energy sources, and the role of modern technologies in achieving sustainable development.

Participants gained a deeper understanding of how energy-efficient practices can reduce operational costs and minimize environmental impact. The lecture also emphasized the responsibility of engineers and future professionals in promoting sustainable solutions and supporting global efforts toward energy conservation.

Overall, the event successfully achieved its objectives by enhancing awareness, encouraging critical thinking, and motivating students to adopt energy-saving practices in both their personal and professional lives. The knowledge gained from this session will be beneficial for academic growth as well as future career opportunities in the field of energy management and sustainability.

V. Keerthi  
24/04/26

  
24/4/2026  
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