

Event Report

Online Lecture Programme on “Aerospace Technology Enables the Fulfillment of Sustainable Development Goals (SDGs)”

Organized by IEI TLC & Safety and Quality Forum, IEI, New Delhi
In Association with: CSI, IIW, IIM, IIIE, IIPE, ISNT, IWS, and Kumari Ariviyal Peravai

Date: 6th May 2025 | Mode: Zoom (Online)

Introduction

On **6th May 2025**, the IEI Tiruchirappalli Local Centre (IEI TLC) along with the **Safety and Quality Forum, IEI, New Delhi** and in association with multiple professional organizations, jointly organized an online lecture programme on the topic “**Aerospace Technology Enables the Fulfillment of Sustainable Development Goals (SDGs).**” The event was conducted at **6:00 pm** via **Zoom** and attracted participants from diverse academic, research, and industrial backgrounds.

Resource Person

The lecture was delivered by **Dr. N. Sivasubramanian, BE, MBA, Ph.D., FIE, FIIT**, Senior Scientist/Chief General Manager (Retd.), ISRO Trivandrum, Immediate Past Chairman of IEI MLC, and Board of Governor, Sustainable Development Forum, IEI. With decades of experience in aerospace technology and sustainable development, the speaker provided an in-depth analysis of how **space-based technologies contribute towards achieving the United Nations’ 17 Sustainable Development Goals (SDGs).**

Programme Overview

The session began with an overview of the **importance of science, technology, and innovation** in advancing sustainability. Dr. Sivasubramanian explained how **aerospace technologies such as satellite-based Earth observation, navigation, communication, and positioning services** play a crucial role in achieving global developmental objectives.

The lecture highlighted practical applications of aerospace technologies in addressing challenges related to:

- **Environmental monitoring** and climate change adaptation.

- **Search and rescue missions** supported by satellite communication.
- **Food security and hunger elimination** through agricultural monitoring.
- **Healthcare improvement** with data-driven planning and telemedicine.
- **Education, literacy, and innovation** through technology-enabled accessibility.

The speaker also pointed out that while certain SDGs, such as those focused on **industrial development, innovation, and education**, benefit significantly from space technologies, others receive lesser direct contributions. This analysis helped participants appreciate the varying impacts of aerospace applications across the SDG spectrum.

Participation and Interaction

The online lecture witnessed active participation from students, research scholars, faculty, and professionals across India. Attendees engaged with the speaker during the interactive session, raising queries about **the role of ISRO and other space agencies** in driving sustainable development. The participants also gained insights into how academic research can align with SDG frameworks through aerospace applications.

Key Learnings and Outcomes

The session provided valuable insights into:

- The role of **aerospace technologies** in achieving SDGs by 2030.
- Applications of space-based services in **environmental sustainability, agriculture, healthcare, and education**.
- The importance of aligning **research projects and industrial practices** with sustainability frameworks.
- Broader awareness of how science and engineering contribute to **a sustainable and inclusive future**.

Participants were also awarded **e-certificates** for their active involvement in the session, further encouraging continuous learning and professional growth.

Conclusion

The online lecture programme on **“Aerospace Technology Enables the Fulfillment of Sustainable Development Goals (SDGs)”** was highly informative and thought-provoking. Organized jointly by IEI TLC, Safety and Quality Forum, and associated professional bodies, the

session highlighted the **transformative role of aerospace and space-based technologies** in building a sustainable future.

By linking **engineering innovation with global development needs**, the lecture inspired students and professionals to explore how their own contributions can align with the broader vision of the **2030 Agenda for Sustainable Development**.



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BHEL Main Office Road, Tiruchirappalli -620 014, Tamil Nadu, India.

CERTIFICATE OF PARTICIPATION

This is to certify that **Tanvi Balaji Malode** has actively participated in the National Convention Day Webinar on Theme:

“Aerospace Technology enables the fulfillment of Sustainable Development Goals (SDGs)”

Organized by The Institution of Engineers (India), held virtually on **06-05-2025**.

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This is to certify that **Khairnar Bharat Rajendra** has actively participated in the National Convention Day Webinar on Theme:

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This is to certify that **Ekta Prakash Davande** has actively participated in the National Convention Day Webinar on Theme:

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This is to certify that **Vaibhav Dilip Pawar** has actively participated in the National Convention Day Webinar on Theme:

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This is to certify that **Piyush Prabhakar Wagh** has actively participated in the National Convention Day Webinar on Theme:

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This is to certify that **Diksha Dilip Jagtap** has actively participated in the National Convention Day Webinar on Theme:

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This is to certify that **Yadav Shubham Balasaheb** has actively participated in the National Convention Day Webinar on Theme:

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This is to certify that **Mansi Sunil Sonawane** has actively participated in the National Convention Day Webinar on Theme:

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Dr. S. Ravimaran.
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