



**Two-days
National Symposium
(Hybrid Mode)
on
Intelligent Manufacturing,
Additive Technologies, and
Sustainable Engineering
(IMATSE-2026)
07–08 August 2026 (Hybrid)**

**Organised
by**



Department of Mechanical Engineering

**SANT LONGOWAL INSTITUTE OF
ENGINEERING AND TECHNOLOGY**

*(Deemed to be University under Ministry of
Education, Govt. of India)*

Longowal -148106, Sangrur (Punjab)

INDIA

About SLIET Longowal

Sant Longowal Institute of Engineering and Technology (SLIET), Deemed-to-be University, was established in 1991 and is funded by the Ministry of Education, Government of India. It is a premier institution imparting technical education of a very high standard.



The academic programmes include ICD, B.E., MTech. (NBA accredited), and Ph.D. in various branches of engineering and technology.

The Institute has a sprawling campus spread over 451 acres of lush green land and offers an ideal environment to nurture a peaceful state of mind required for research and other student activities.

Institute Vision

Sant Longowal Institute of Engineering and Technology shall strive to act as an international podium for the development and transfer of technical competence in academics through formal and non-formal education, entrepreneurship, and research to meet the changing needs of society.

About the Department

The Department of Mechanical Engineering is the largest department of the Institute. The department offers several programmes at different levels, including ICD, Diploma, Degree, and Postgraduate programme.



The department is actively engaged in research in Non-Conventional Machining, Composite Materials, Additive Manufacturing, Automotive Engineering, Welding Technology, CAD/FEA, and Modelling and Simulation.

It regularly organises conferences, symposia, and MoE/AICTE/ISTE-sponsored programmes.

About the Programme

A two-day **National Symposium on Intelligent Manufacturing, Additive Technologies, and Sustainable Engineering (IMATSE-2026)** will be held in Hybrid Mode from 07–08 August 2026. This symposium is designed for faculty members, industry professionals, research scholars, and PG students. It focuses on the role of AI and ML in mechanical engineering, bridging conventional practices and AI-driven technologies. The programme covers generative design, digital twins, predictive maintenance, AI-enabled simulation, and smart infrastructure systems.

Objectives of the Programme

- ◆ To provide a platform for researchers, academicians, and industry professionals to exchange knowledge on intelligent manufacturing and sustainable engineering.
- ◆ To explore the role of AI and ML in transforming conventional manufacturing processes.
- ◆ To foster industry–academia collaboration for innovative and sustainable engineering solutions.
- ◆ To encourage R&D in digital twins, predictive maintenance, and smart manufacturing systems.
- ◆ To equip participants with practical skills in AI-driven design, simulation, and process optimization.
- ◆ To promote sustainable and green manufacturing practices aligned with India's Net Zero 2070 vision and Make in India initiative.
- ◆ To inspire innovation, entrepreneurship, and start-up culture in additive manufacturing and AI-enabled engineering among young researchers.
- ◆ To facilitate dissemination of quality research through paper presentations and recommend selected papers for publication in reputed journals

Who Can Attend

Faculty members (Regular/Ad hoc/Contract), research scholars, and students from engineering institutes/colleges and other allied disciplines from India and abroad, as well as industry personnel working in relevant or allied disciplines in India.

Patron: Prof. Mani Kant Paswan,
(DIRECTOR)

Co-Patron: Prof. Surinder Singh(Dean, R&C)

Chairperson: Prof. Shankar Singh
(HOD- Mechanical & Civil
Engg.)

Co-Chairperson: Prof. Jagtar Singh

Organising Secretary : Dr. Rakesh Kumar,
Associate Professor (Mech.)

Joint Organising Secretaries:
Prof. Indraj Singh, Professor (Mech.)

External Experts:

1. Prof. Sagar Nikam , Ulster University, UK
2. Prof. Shiva S , IIT Jammu, India
3. Prof. Tuhin Mukherjee , Iowa State University, USA
4. Prof. Sankha Deb, IIT Kharagpur, India

Course Contents

- Introduction to Artificial Intelligence and Machine Learning in Manufacturing
- Generative Design and Topology Optimization
- Additive Manufacturing: Processes and Applications
- Digital Twins and Smart Manufacturing Systems
- Predictive Maintenance Using AI and IoT
- AI-Enabled Simulation and Process Optimization
- Sustainable Engineering and Green Manufacturing
- Industry 4.0 and Smart Infrastructure Systems

Programme Features

- ◆ Keynote lectures by eminent academicians, researchers, and industry experts
- ◆ Hands-on workshops with live demonstrations of AI/ML tools and software
- ◆ Hybrid mode – seamless Online and Offline paper presentation and participation
- ◆ Networking opportunities with leading researchers and practitioners
- ◆ E-Certificate of participation to all registered participants
- ◆ Exposure to cutting-edge research in additive manufacturing and sustainable engineering
- ◆ Complimentary symposium kit with resource materials

Guidelines For Paper Submission

- ◆ Papers must be original, unpublished, and not under review elsewhere.
- ◆ Manuscript: A4 size, Times New Roman, 12 pt, 1.5-line spacing, single column.
- ◆ Paper length: 6–8 pages including figures, tables, and references.
- ◆ Plagiarism must be below 10% (excluding references and bibliography).
- ◆ Submit manuscript in MS Word (.docx) format via email.
- ◆ Email for submission: imatse_2026@sliet.ac.in
- ◆ Presentation: 10–12 minutes followed by 3–5 minutes Q&A (Online or Offline).
- ◆ Selected papers may be recommended for publication in reputed journals.

Important Dates

- ◆ Last date of paper submission: **04 August, 2026**
- ◆ Notification of acceptance: **05 August 2026**
- ◆ Last date of registration: **05 August 2026**
- ◆ Symposium dates: **07–08 August 2026**

Registration Details

The registration fee structure is as follows:

Participants	Fee (₹)
Faculty/Staff	250/-
UG/PG/PhD Scholars	100/-
Persons from Industry	500/-
Participants from abroad	USD 10 (Online)
SLIET Faculty/Staff (Mech.)	NIL

Last date of registration: 05 August 2026

Register here :

<https://forms.gle/ZGc62xRfJCT53GXE8>



Address For Correspondence

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