

TARGET AUDIENCE

This workshop is open to Faculty Members, Research Scholars, Students in the relevant/ allied disciplines.

Venue: SJT 507 Smart Classroom

Date & Time: 11th, Dec 2025 & Time: 10:00AM – 5:00PM

REGISTRATION DETAILS

No registration fee will be charged from the participants.

To register, please visit:

<https://forms.gle/cbNk82AGfMPY6YGE9>

Contact

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Co-ordinators

Dr. Margret Anuncia S, Professor, SCOPE

Dr. Anthony Xavier M, Professor, SMEC

Dr. Mythili T, Professor, SCOPE

Dr. Rajkumar S, Professor, SCOPE

Dr. Jeyapandiarajan P, Asst. Professor, SMEC

Head of the Departments - SCOPE

Dr. Boominathan P, Software and Systems

Dr. Senthil Kumar K S, Database Systems

Dr. Swathi J.N, Computational Intelligence

Dr. Gopinath M.P, Information Security

Dr. Sharmila Banu K, IoT

Dr. Mythili T, Analytics

Dr. Sathiya Kumar C, Quantum AI

Head of the Departments - SMEC

Dr. Rajyalakshmi G, Manufacturing

Dr. Jose S Thermal and Energy

Dr. Govindha Rasu N, Automotive Engineering

Dr. Manikandan M, Design and Automation



VIT
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)



*One-day International Workshop
on*

“The Intelligent Factory: Integrating AI for Next-Gen 3D Printing”

11th December 2025



Jointly Organized by

School of Computer Science and Engineering (SCOPE) &

School of Mechanical Engineering (SMEC), VIT, Vellore

**In Collaboration with
Coventry University, UK**



**Funded by Scheme for Promotion of Academic and Research
Collaboration (SPARC) - UKIERI**

ABOUT VIT

VIT has made a mark in the field of higher education in India imparting quality education in a multicultural ambiance, intertwined with extensive application-oriented research. VIT was established in 1984 by the well-known educationist, and former parliamentarian, honourable Dr. G. Viswanathan, the Founder and Chancellor, a visionary who transformed VIT into a Centre of Excellence in higher technical education. It persistently seeks and adopts innovative methods to improve the quality of higher education in all fields of science and technology. VIT is the 9th best institution of India and the 212th best institution in the world in Engineering and Technology in 2024, holding 136th position in computer science and information systems as per the QS World University Rankings by Subject.

ABOUT SMEC

The School of Mechanical Engineering at VIT is one of the renowned schools in the country and has been operational since 1984. The school features a team of exceptionally qualified faculty members, many with PhDs from elite universities of India and abroad, who educate and train the greatest brains in the country. The school is proud of the major research support it has received from various government agencies, including DST, DRDO, MNRE, CSIR, CVRDE, CPDO, MOES, AR&DB, CVRDE, ISRO, UGC, NRB, and AICTE, as well as international agencies from the Royal Academy of Engineering, UK, and the British Council UK etc. The school has signed Memorandums of Understanding (MoUs) with world-class universities and reputed industry leaders that ensure our students advance in their careers.

ABOUT SCOPE

The school has one of the best infrastructure including domain-specific labs associated with the technical departments. The main aim is to produce computing graduates with potential, to design and develop systems involving the integration of software and hardware devices, employ innovative approaches in programming and problem solving, and create Large Scale Software Systems. With an objective of developing core competence in the subject matter specializations and special interest groups for learning newer technologies. The School strives to become a pioneering world-class centre of excellence in education and research through collaborative, consultative and participatory approaches, nurture effective capabilities for the development of high- quality technical and scientific manpower to meet the challenges of the knowledge era, and provide cost-effective Information and Communication Technology (ICT)- based solutions and value-added services to a variety of organisations and to meet the expectations of stakeholders.

ABOUT THE WORKSHOP

This workshop that explores how artificial intelligence is revolutionizing additive manufacturing by optimizing design, material usage, and real-time process control. Participants will learn about intelligent monitoring, predictive maintenance, and automated quality assurance, supported by hands-on demonstrations of AI-driven 3D printing systems. The session also highlights emerging trends such as generative design and closed-loop fabrication, offering valuable insights for engineers, researchers, and

professionals aiming to lead the future of smart manufacturing.

RESOURCE PERSONS

Dr. N. Sasidharan, Wayland Additive Ltd., UK. Title: Intelligent Process Monitoring in Additive Manufacturing for Enhanced Reliability and Efficiency

Dr. A. Arivazhagan, Coventry University, UK. Title: Utilising ML's & Visual Language Models(VLM's) for Welding Based Hydrogen Embrittlement.

Dr. Danijela Rostohar, Coventry University, UK. Title: Towards Digital Twin in laser-based manufacturing

Dr. Rajkumar S, Vellore Institute of Technology, Vellore. Title: AI-Enhanced Materials Management

