

## Important Dates

Last date for registration : 12 December 2024

*Only limited participants are allowed;  
No registration fee.*

## Registration



For registration, scan me

## Contact :

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## Chief Patron

Dr. G. Viswanathan, Chancellor, VIT

## Patrons

Mr. Sankar Viswanathan, Vice – President, VIT

Dr. Sekar Viswanathan, Vice – President, VIT

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## Convenor

Prof. Devendranath Ramkumar K, Dean-SMEC, VIT, Vellore

## Co-Convenor

Prof. Benedict Thomas,  
HOD, Design & Automation, SMEC, VIT, Vellore

Prof. Pandivelan C,  
HOD, Manufacturing Engineering, SMEC, VIT, Vellore

Prof. Ashok B,  
HOD, Automotive Engineering, SMEC, VIT, Vellore

Prof. Asokan M A,  
HOD, Thermal & Energy Engineering, SMEC, VIT, Vellore

## Co-ordinators

Dr. Vasudevan R, SMEC, VIT, Vellore

Dr. B. Ashok, SMEC, VIT, Vellore

Dr. Mallikarjuna Reddy, SMEC, VIT, Vellore

Dr. R. Manoharan, SMEC, VIT, Vellore

Dr. Denis Ashok S, SMEC, VIT, Vellore



## Two-day Workshop on "Digital Transformation and Industry 5.0"

Dec 16 - 17, 2024  
VIT, Vellore

Online Mode



## Resource Persons

Dr. Sathiskumar A Ponnusami, City, UK

Dr. Rajkumar Roy, City, UK

Dr. Abhishek Patange, ABB Global Industry, Bangalore

Dr. Vasudevan R, VIT, Vellore

Dr. Ashok B, VIT, Vellore

Dr. Mallikarjuna Reddy, VIT, Vellore

Dr. Manoharan R, VIT, Vellore

Dr. Denis Ashok S, VIT, Vellore

Ms. Akshatha Dayananda, Wipro3D

*Jointly Organised by*

*School of Mechanical Engineering,  
Vellore Institute of Technology, Vellore, India  
City, University of London, UK  
Wipro3D, Bangalore, India.*

## Vellore Institute of Technology (VIT)

Vellore Institute of Technology was founded in 1984 as Vellore Engineering College by the Founder and Chancellor Dr.G.Viswanathan. University status was conferred in 2001 by MHRD Govt. of India in recognition of its excellence in academics, research and extracurricular initiatives.

### Ranking & Accreditation

Vellore Institute of Technology (VIT) has emerged as one of the best institutes of India and is aspiring to become a global leader. Quality in teaching-learning, research and innovation makes VIT unique.

- ❖ Engineering and Technology subject areas of VIT are the 212<sup>th</sup> best in the World and the 9<sup>th</sup> best in India, and Ten subjects of VIT are within the top 500 in the world (as per QS World University Rankings by Subject 2024)
- ❖ 10<sup>th</sup> best University, 13<sup>th</sup> best research institution and 11<sup>th</sup> best engineering institution in India (NIRF Ranking, Govt. of India 2024)
- ❖ Ranked among the top 501-600 universities of the world (Shanghai ARWU ranking 2024)
- ❖ NAAC Accreditation with A++ grade (3.66 out of 4)
- ❖ The 150<sup>th</sup> best Institution in Asia (QS - Asia University Rankings 2025)

### School of Mechanical Engineering (SMEC)

The School of Mechanical Engineering is one of the oldest and most prestigious schools of VIT. This school started functioning right from 1984, the year in which our institution began. The School of Mechanical Engineering offers 3 undergraduate and 6 post-graduate programs. The school has a team of highly qualified faculty members, many holding PhDs from elite institutes across the globe, to teach and train this country's best minds. The pride of the school lies in the significant research funding received from several National and International agencies such as DST, DRDO, MNRE, CSIT, CVRDE, CPDO, IE, AR&DB, BRNS, ISRO, UGC, NRB, Royal Academy of Engineering etc. The Department of Science and Technology, Govt. of India has recognized the school for its research activities and supported it in 2003, 2010 and 2022 under the FIST scheme. The school has modern facilities, enabling cutting-edge research in a wide spectrum of niche technological areas. The school is ranked 501-600 in the World as per THE World University Subject Ranking in 2024. Mechanical and Manufacturing Engineering is ranked within the top 10 in India and top 201-250 in the world as per QS World University Rankings by Subject 2024.

## About the workshop

Complimentary to Industry 4.0, Industry 5.0 has emerged as a sustainable, human-centric and resilient industry across the world and achieving Sustainable Development Goals (SDGs). A blend of communication, information and artificial intelligence is taking place to lay the foundation for emerging advanced technologies. The main objective of this value added course is to impart the knowledge on Industry 5.0 and promote transdisciplinary approaches.

### The various topics include:

- ❖ **Introduction to Industry 4.0**
- ❖ **Building Blocks of Industry 4.0: Additive Manufacturing, Autonomous Robot, Artificial Intelligence, Augmented Reality, Virtual Reality, Big Data & Blockchain, IoT and Simulation**
- ❖ **Transitioning to Industry 5.0: Digital Transformation from Industry 4.0 to Industry 5.0**
- ❖ **Industry 5.0-Way forward for Human Workforce**
- ❖ **Industry 5.0 Implementation: Opportunities and Challenges**
- ❖ **Applications of Holography & 5D printing**
- ❖ **Industry 5.0: The future of the Industrial Economy**
- ❖ **Industry 5.0 and Role of cutting-edge technologies**

