ABOUT VIT

VIT was established with the aim of providing quality higher education on par with international standards. It persistently seeks and adopts innovative methods to improve the quality of higher education on a consistent basis. The campus has a cosmopolitan atmosphere with students from all corners of the globe. Experienced and learned teachers are strongly encouraged to nurture the students. The global standards set at VIT in the field of teaching and research spur us on in our relentless pursuit of excellence. In fact, it has become a way of life for us. The highly motivated youngsters on the campus are a constant source of pride. Our Memoranda of Understanding with various international universities are our major strength. They provide for an exchange of students and faculty and encourage joint research projects for the mutual benefit of these universities. Many of our students, who pursue their research projects in foreign universities, bring high quality to their work and esteem to India and have done us proud. With steady steps, we continue our march forward. We look forward to meeting you here at VIT few of the innovations that VIT has introduced.

ABOUT SCE

The School of Civil Engineering (SCE) is a part of VIT since its inception. The School has grown tremendously over years and is now recognized as one of the major engineering schools in VIT. The Vellore Institute of Technology (VIT) is ranked between 201 and 275 in the QS World University Rankings by Subject for Civil Engineering. The School faculty members are from elite institutions across the globe. Besides high-quality teaching and instruction at both UG and PG levels, the faculty members of the school are actively involved in executing a number of R&D and consultancy projects from government agencies including DST, ISRO, BRNS and also from many reputed industries.

ABOUT THE PROGRAMME

A practical introduction to digital twins and their applications in buildings and smart infrastructure. Participants will explore how 3D building models, sensor data, simulations and AI can be integrated to monitor, analyse and predict the performance of the built environment using open-source tools and Python.

PLATFORM

Python,
Google Colab and
Open-source tools.

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

School of Civil Engineering

Organizes One Day Workshop on

"Digital Twins for Built Environment"

09th January 2027



TOPICS TO BE COVERED

The workshop will cover the following:

1. Introduction to Digital Twins and their applications.
2. 3D Building Modelling and BIM.
3. IoT Sensors and Real-Time Data Integration.
4. Building Energy and Environmental Simulation.
5. Structural Health Monitoring and Damage Detection.
6. AI-Based Prediction and Smart City Applications.

TARGET GROUP INCLUDES

- Industrial personnel/Scientists
- Faculty members
- Independent researchers
- UG/PG students and Research Scholars



ORGANIZING COMMITTEE

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REGISTRATION FEE:

Participants: Rs. 300 + 18% GST

PAYMENT LINK

The registration fee has to be paid through the following payment link only.
https://events.vit.ac.in/

Last date for registration: 07.01.2027

