

About the Workshop

Building on the workshop's core mission, the "3D Concrete Printing – Redefining Concrete Construction" workshop serves as a vital platform for participants to delve into the transformative power of modern automated construction. With a dedicated focus on innovation and sustainability, the program explores critical design principles and material optimization strategies essential for the future of the industry. The workshop bridges the gap between theoretical research and real-world implementation, providing a focused understanding of how this cutting-edge technology is currently reshaping construction practices. By equipping researchers, students, and professionals with these essential insights, the event empowers them to lead the shift toward more efficient, technology-driven building solutions.

Target audience

The Workshop is designed for practicing engineers, the construction industries, faculty members, research scholars, and UG and PG students of engineering/polytechnic colleges.

The objectives of the workshop

- ❖ Introduction to 3D concrete printing technology
- ❖ Material design and rheology for 3D printing
- ❖ Application in residential and industrial Construction
- ❖ Hands-on demonstrations and case studies
- ❖ Opportunities for research and development

Organizing Committee

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Dr. G. Viswanathan, Chancellor

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Mr. Sankar Viswanathan, Vice President

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Convener:

Dr. P. Rama Mohan Rao

Professor & Director,

Centre for Disaster Mitigation and Management.

Co-convener:

Dr. M. P. Saravanakumar

Professor & Dean,

School of Civil Engineering.

Faculty Coordinators:

Dr. Prasanth S

Assistant Professor,

Centre for Disaster Mitigation and Management.

Dr. Priyadarshini B

Assistant Professor,

Centre for Disaster Mitigation and Management.



One-day Workshop On

3D CONCRETE PRINTING - REDEFINING CONCRETE CONSTRUCTION

13th February 2026



Organized by

Centre for Disaster Mitigation and
Management (CDMM)

and

School of Civil Engineering (SCE)

Vellore Institute of Technology, Vellore,
632014.

Tamil Nadu, India.

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. Our Memoranda of Understanding with various international universities are our major strength.

About CDMM

The Centre of Disaster Mitigation and Management (CDMM) is one of the most modern, well-equipped, and progressive centres in India with a passion for excellence. CDMM addresses some of the most neglected areas of the highest national importance. Innovation in Disaster education, rendering of highly specialized disaster mitigation services and a Disaster Knowledge Network tagged with great learning exercises are the three areas of its current operation. The centre has a team of professionals from various disciplines such as Structural & Geotechnical Engineering, Geological studies, and Geospatial Technology and Climate Modelling whose research focus includes hazard mapping, vulnerability analysis, risk assessment, modelling, and forecasting for different natural disasters.

About SCE

With over thirty years of growth, the School of Civil Engineering stands as a cornerstone of VIT, blending elite global faculty expertise with prestigious NABL-accredited facilities. The school bridges the gap between academia and industry through strategic partnerships with giants like L&T and TATA, alongside high-impact R&D projects for agencies such as ISRO and DST. Recognized with the "Excellence in Civil Engineering Education" award, it remains a premier hub for global research and innovation in the infrastructural landscape.

Concrete 3D Printing Lab

To lead the transformation of the construction industry, the School of Civil Engineering at VIT Vellore established a dedicated Concrete 3D Printing Lab. This lab allows students and researchers to bring their most creative ideas to life. The lab's key research focus on **topology optimized structural elements and advanced cementitious materials** which are setting new standards for the future of engineering.



Major equipment available:

- ❖ R and D Concrete 3D Printer
- ❖ 3D Printer progressive cavity pump extrusion system
- ❖ Tvasta software

Resource Person

Prof. Jayaprakash J (Ph.D. from UPM Malaysia)
Professor (HAG),
Department of Structural & Geotechnical Engineering,
School of Civil Engineering,
VIT Vellore.

Registration

Last date of registration: 11/02/2026

Register online at: <https://events.vit.ac.in/>
Registration fees (Inclusive of GST)

Category	Fees
Student/ Research scholar	Rs. 350/-
Faculty member	Rs. 500/-
Industry person	Rs. 750/-

Payment should be made online only using the link provided: <https://events.vit.ac.in/>

Venue

CDMM 213,

Centre for Disaster Mitigation and Management,
VIT, Vellore - 632014.

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