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.

SCHOOL OF CIVIL ENGINEERING

The School of Civil Engineering (SCE) is a part of the institute since the inception of VIT. The School has grown tremendously over the past thirty years and is now recognized as one of the major engineering school in VIT. The School has faculty members from various reputed institutes such as IITs, NITs etc. Besides high-quality teaching and research 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 DBT, DST, ISRO, UGC, AICTE, and also from many reputed industries. The School offers two postgraduate programs: M.Tech in Structural Engineering & M.Tech in Construction Technology and Management. The School of Civil Engineering with its multifaceted faculty members continues to maintain and cultivate its strong link with the infrastructural industry such as L&T, HCC, DLF, RAMCO, CCL, Godrej, TATA Consultancy, etc. The school has also regularly benefited from international linkages facilitated by University level MoUs with a number of leading foreign Universities such as Deakin University, Queensland University of Technology (QUT), West Virginia University, North Dakota State University etc.

ABOUT THE PROGRAMME

This programme is an introductory course on computer aided finite element modelling and analysis of structural elements designed exclusively for beginners. Simulation of actual behavior of structural elements through high end computing techniques reduces time, cost and human efforts. However, simulating the exact test results is a great challenge to engineers. This programme aims to educate the student participants regarding creation of geometry, various modelling techniques, defining contact interactions, assigning boundary condition and loads as that expected in the real time. ABAQUS Simulia from Dassault Systems will be used for this programme. As an outcome of this programme the student participant would be able to carry out his/her research work for M.Tech/Ph.D thesis through numerical investigations on the RCC, Steel and composite structural elements..

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

Value Added Program on

Computer Aided Finite Element Modeling and Analysis of Structural Elements

Organized by

Department of Structural and Geotechnical Engineering

School of Civil Engineering

Date: 9th to 12th April 2026

Venue: Vellore Institute of Technology, Vellore campus

Organizing Committee

Honourable Patron

Dr. G. Viswanathan
Founder & Chancellor
Vellore Institute of Technology, Vellore

Chief Patrons

Dr. Sankar Viswanathan
Vice President, VIT, Vellore

Dr. Sekar Viswanathan
Vice President, VIT, Vellore

Dr. G. V. Selvam
Vice President, VIT, Vellore

Dr. Sandhya Pentareddy
Executive Director, VIT, Vellore

Ms. Kadhambari S Viswanathan
Assistant Vice - President, VIT, Vellore

Patrons

Dr. Kanchana Bhaaskaran V.S
Vice Chancellor, VIT, Vellore

Dr. Partha Sharathi Mallick
Pro-Vice Chancellor, VIT, Vellore

Dr. T. Jayabarathi,
Registrar, VIT, Vellore

Convenor

Dr. M. P. Saravanakumar
Dean, SCE, VIT, Vellore

Dr. A. Sofi
Associate-Dean, SCE, VIT, Vellore

Co-Convenors

Dr. S. Balamurugan
HOD, Dept. of SGE, SCE, VIT, Vellore

Dr. Dillip Kumar Barik
HOD, Dept. of EWRE, SCE, VIT, Vellore

Resource Persons:

Dr. Hareesh. M
Assistant Professor (Senior)
Department of SGE, SCE, VIT, Vellore

Dr. Konala S K Karthik Reddy
Assistant Professor (Senior)
Department of SGE, SCE, VIT, Vellore

Expected Participants

- PG/UG Students
- Research Scholars & Faculty Members
- Practicing Civil Engineers

Programme Highlights:

- Basics of Finite Element Methods
- Introduction to 1D, 2D, 3D Part Modelling
- Material Modelling
- Contact Interactions
- Boundary and Loading Conditions
- Meshing & Convergence Techniques
- Numerical Methods for Analysis of Structural Elements
- Post-processing Techniques.

Faculty Coordinators

Dr. N. Senthil Kumar, Associate Professor
Department of SGE, SCE, VIT, Vellore

Dr. T. S. Viswanathan, Associate Professor
Department of SGE, SCE, VIT, Vellore

Registration details

Registration can be done online using link https://events.vit.ac.in/

Registration fee

Sl. No.	Delegates Category	Registration Fee* (INR)
1	Students (Inside VIT)	750
2	Research Scholars (Inside VIT)	1000
3	Students / Research Scholars (Outside VIT)	1500
4	Faculty / Industry / R & D	3000

*Exclusive of GST and Refreshments.

The last date for registration is **7th April 2026**. Transport and accommodation shall be borne by the participants themselves.

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