

### 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 ISET Vellore Chapter

By the initiatives of VIT Vellore, the ISET Vellore Chapter was established in December 2016 for the public welfare

and seismic resilient India, as a forum for scientists and engineers of various specializations to join and exchange ideas and to promote research, development, and awareness work in the field of Earthquake Technology.

### About IGS Vellore Chapter

The Indian Geotechnical Society (IGS) Vellore Chapter serves as a vital hub for geotechnical professionals and students in the Vellore region of Tamil Nadu. It functions as a local arm of the national IGS organization, dedicated to advancing the field of geotechnical engineering. The chapter actively organizes various technical events, including seminars, workshops, and lectures, to facilitate the exchange of knowledge and promote best practices. Notably, it also plays a significant role in fostering the growth of aspiring geotechnical engineers through student-centric activities. The chapter is closely associated with institutions such as the Vellore Institute of Technology (VIT), and works to bridge the gap between academic theory and practical application within the geotechnical engineering domain.

### Resource Persons

#### Er. Ravi Shhankkar Subramaniam

Chief Executive, Technical and Operations  
Padmavathy Buildmart  
Chennai

#### Dr. Prasanth S

Assistant Professor  
Centre for Disaster Mitigation and Management  
Vellore Institute of Technology  
Vellore

### Registration

- Last Date of Registration: 11/09/2025
- Register online at: <https://events.vit.ac.in/>
- Registration Fees (Inclusive of GST)

Category	Fees
Student/ Research Scholar	Rs. 250/-
Faculty member	Rs. 350/-
Industry person	Rs. 500/-

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

### Venue

Centre for Disaster Mitigation and Management, VIT, Vellore  
632014

### For Further Details Contact

#### Dr. Prasanth S

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e-mail: [prasanth.s@vit.ac.in](mailto:prasanth.s@vit.ac.in);

#### Dr. Arunava Ray

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## About the Workshop

The one-day workshop on “Numerical Modelling Techniques for Structural and Geotechnical Applications” aims to provide participants with a focused understanding of computational methods for solving complex engineering problems. It will highlight technique such as Finite Element Method, emphasizing the use in modeling soil–structure interaction, nonlinear behavior, dynamic loading, and coupled processes. Through expert lectures, case studies, and demonstrations, attendees will learn practical strategies for applying numerical tools to real-world design and analysis. The workshop will bridge theory and practice, equipping researchers, students, and professionals with essential skills to address challenges in structural and geotechnical engineering.

## Target Groups

The Workshop is designed for practicing Engineers, Faculty members and Students of Engineering/Polytechnic colleges.

## The objectives of the workshop are: -

- To introduce participants to fundamental and advanced techniques of structural health monitoring.
- To demonstrate practical applications of structural retrofitting techniques through case studies.
- To enhance understanding of defects identification and monitoring in both superstructure and substructure.
- To equip students, researchers, and professionals with skills for handling different NDT equipment through hand on session.

## Major Topics to be covered

- Introduction to structural health monitoring
- Case studies on retrofitting
- Hands on experience of different NDT equipment

## Organizing Committee

### Chief Patron:

Dr. G. Viswanathan, Chancellor

### Patrons:

Mr. Sankar Viswanathan, Vice President

Dr. Sekar Viswanathan, Vice President

Dr. G. V. Selvam, Vice President

Dr. Sandhy Pentareddy, Executive Director

Ms. Kadhambari S. Viswanathan, Assistant Vice President

### Co-Patrons:

Dr. V.S. Kanchana Bhaaskaran, Vice Chancellor

Dr. Partha Sharathi Mallick Pro-Vice-Chancellor

Dr. T. Jayabarathi, Registrar

### Convener

Dr. P. Rama Mohan Rao Professor & Director

Centre for Disaster Mitigation and Management

### ISSET, Vellore Chapter

Dr. G. Mohan Ganesh, Professor (HAG), School of Civil Engineering & Chairman

Dr. P. Rama Mohan Rao, Professor and Secretary

### IGS, Vellore Chapter

Dr. P. Porchelvan, Professor (HAG), School of Civil Engineering & Chairman

Dr. Arunava Ray, Assistant Professor, CDMM and Secretary

### Faculty Coordinators

Dr. Arunava Ray, Assistant Professor

Centre for Disaster Mitigation and Management

Dr. Prasanth S, Assistant Professor

Centre for Disaster Mitigation and Management



# One day Workshop On Challenges in Strengthening of Reinforced Concrete Structures

12<sup>th</sup> Sep 2025



## Organized by

Centre for Disaster Mitigation and Management  
Vellore Institute of Technology, Vellore 632014

Tamil Nadu, India.

In association with



Indian Society of  
Earthquake  
Technology (ISET)  
VIT, Vellore Chapter



Indian  
Geotechnical  
Society (IGS)  
Vellore Chapter