

## About VIT

VIT was founded in 1984 as Vellore Engineering College by Chancellor Dr. G.Viswanathan. From its humble beginning, the institution has grown exponentially to that of having more than 33,000 students. Students from all the states of India and from more than 50 countries are studying at VIT. VIT deemed to be university status was conferred in 2001 by MHRD Govt. of India in recognition of its excellence in academics, research and extracurricular initiatives. Currently, VIT has 4 campuses in Vellore, Chennai, Amaravati (AP), and Bhopal (MP). The National Institutional Ranking Framework (NIRF) of the MHRD, Government of India, has identified VIT 10<sup>th</sup> in research, 12<sup>th</sup> in the engineering category, 9<sup>th</sup> in the university category, and 18<sup>th</sup> in the overall category in 2022. VIT has gone for accreditation by NAAC [India], IET [UK], and ABET [USA] and follows world-class academic processes. VIT obtained the highest possible grade of "A++" from NAAC during the re-accreditation process. VIT has introduced many innovations in academic processes which add value to every student - FFCS (Fully Flexible Credit System), PBL (Project Based Learning) for better learning, fully digitized academic portals that assist students in equipping themselves for the 2022 marketplace, Hackathons/Make-a-thons as part of curriculum exercise which kindles the interest and the curiosity of students, which moulds them to be better problem solvers, the 8<sup>th</sup> module in every subject being handled by industry experts, making the students contextualize the concepts they study in the classroom, are few of the innovations that VIT has introduced.

## About CDMM

The Centre of Disaster Mitigation and Management (CDMM; [www.vit.ac.in/cdmm/](http://www.vit.ac.in/cdmm/)) is one of the most modern, well-equipped, and progressive centers 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 Disaster Knowledge Network tagged with the great learning exercises are the three areas of its current operation. The Centre aims to achieve excellence in the key areas of research on par with international standards and

regional issues and concerns, especially in Landslides and Earthquake Disaster Mitigation and Management, Early Warning Systems, Mitigation Efforts, and Disaster Preparedness across India. The center has a team of professionals from various disciplines such as Structural & Geotechnical Engineering, Geological studies, and Geospatial Technology and energy. The research focus of CDMM includes hazard mapping, vulnerability analysis, risk assessment, modeling, and forecasting for both natural disasters such as landslides, earthquakes, cyclones, floods, etc, Research and consultancy projects are carried out through sponsored funding from the Ministries and Departments of the Government of India and International agencies like UNDP-India, Social Science and Humanities Research Council (UK), Geophysical Institute, Russian Academy of Sciences, etc.

## About the Workshop

The earthquake in Turkey in February 2023 has alarmed us for disaster mitigation and the response of the country's structural stability and seismic resistance of the building. In Tamilnadu, Vellore is situated under seismic zone-III. So, there is an urgency to develop awareness and hazard preparedness related to seismic hazards among construction practice engineers. As we all know that earthquake is a natural hazard, due to which loss of life and economical loss takes place. To suppress its impact on concrete structures different technologies are developed. Researchers have developed many construction techniques to develop earthquake-resistance structures. These technologies are not much in use even in earthquake-prone areas in India. Poor construction practices are used during the construction of different structural elements. To develop awareness and to spread information related to the earthquake this workshop gives the design concepts of structures to resist seismic loads and mitigation measures for earthquake vulnerability

## Objectives of Workshop and Outcome

To expose the participants to the Earthquake design guideline's recent developments/techniques for resistant structures against various seismic resistant structures mitigation measures for earthquake vulnerability.

## Target Groups

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

## Major Topics to be covered

- Earthquake Resistant Design
- Earthquake Geotechnical Engineering
- Earthquake Mitigation Measures

**Venue** Centre for Disaster Mitigation and Management, VIT, Vellore 632014.

## Resource Persons

- Dr. Rupen Goswami  
Professor of Civil Engineering, IIT Madras, Chennai.
- Dr. Doda Goudar G R,  
Professor of Civil Engineering, IIT Madras, Chennai.
- Dr. S.S Chandrasekaran,  
Professor, Director, CDMM, VIT-Vellore.
- Dr. G P Ganapathy,  
Professor, CDMM, VIT-Vellore.  
Chairman, ISET, Vellore Chapter

## Registration Fee

Students and Research Scholars: Rs.250/-+18%GST  
Faculty members: Rs.350/- + 18% GST  
Industry persons: Rs.500/- +18% GST

## How to Register

To register for the program please send the details along with the online transaction number through email to the coordinator on or before 26<sup>th</sup> April 2023. Registration is open until seats are filled. Payment should be made only online using the link below

Payment Link: <https://events.vit.ac.in/>

**One Day Workshop on  
Earthquake Resistant Design of Concrete  
Structures and its Mitigation Techniques**

**28<sup>th</sup> April 2023**

Name :  
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Affiliation :  
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Address :  
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Mobile Number:  
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E-Mail ID:  
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**Signature of the Participant**

**Organising Committee**

**Chief Patron**

Dr. G. Viswanathan, Chancellor

**Patrons**

Mr. Sankar Viswanathan, Vice President  
Dr. Sekar Viswanathan, Vice President  
Mr. G. V. Selvam, Vice President  
Dr. Rambabu Kodali, Vice Chancellor  
Dr. Partha Sharathi Mallick Pro-Vice Chancellor  
Dr. T. Jayabarathi, Registrar

**Convener**

Dr. S.S. Chandrasekaran  
Professor & Director  
Centre for Disaster Mitigation and Management  
Vellore Institute of Technology, Vellore 632014,  
Tamil Nadu, India.

**Course Coordinators**

Dr. P. Rama Mohan Rao  
Professor  
Centre for Disaster Mitigation and Management  
Vellore Institute of Technology, Vellore 632014,  
Tamil Nadu, India.

Dr. J Visuvasam  
Assistant Professor Sr., SCE,  
Secretary, ISET, Vellore Chapter,  
Vellore Institute of Technology, Vellore 632014,  
Tamil Nadu, India.

**Contact Details**

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**VIT<sup>®</sup>**  
Vellore Institute of Technology  
(Deemed to be University under section 3 of UGC Act, 1956)  
Vellore 632 014

**One day Workshop on**

**Earthquake Resistant Design of Concrete  
Structures and its Mitigation Techniques**

**28<sup>th</sup> April 2023**



**Organised by**

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

**In association with**



**Indian Society of Earthquake Technology (ISET),  
Vellore chapter.**