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

Vellore 632 014

## About VIT

VIT was founded in 1984 as Vellore Engineering College by the 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 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 as the best Private Engineering Institution in India in the year 2016 and in 2017. VIT has gone for accreditation by NAAC [India], IET [UK], and ABET [USA] and follows world class academic processes.

VIT is the first and only Institution in India to get 4 star rating from QS, the world universities ranking organization. The Industry consortium FICCI, has declared VIT as the "University of the Year 2016", in India. VIT has also been ranked in the top 201-250 in QS BRICS Ranking in 2016 and in the top 251-300 in Times Higher Education (THE), Asia Ranking.

## About CDMM

The Centre of Disaster Mitigation and Management (CDMM; www.vit.ac.in/cdmm/) is one of most modern, well equipped and progressive Centres in India with 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 exercise are the three areas of its current operation. The Centre has forged partnerships with many knowledge based institutions and professional bodies including National Institute of Disaster Management, Government of India, Institution of Engineers (India), Structural Engineering Research Centre, Chennai, Advanced Technology Engineering Services, New Delhi, Central Building Research Institute, Roorkee and Central Road Research Institute, New Delhi. The Centre has the best known experts in the area of Natural Disasters, on its Advisory Board.

The Centre aims to achieve excellence in the key areas of research on par with international standards and regional issues and concerns, especially in Earthquake Disaster Mitigation and Management, Early Warning Systems, Mitigation Efforts and Disaster Preparedness across India.

The centre has faculty with domain expertise in Earthquakes, Landslides, Floods, Droughts, Construction and Structural Engineering, Geomatics Technology (Remote Sensing, GIS, GPS, Surveying, Digital Photogrammetry etc.) and Multi-media Technology. Research and consultancy projects are carried out through sponsored funding from Government of India's Ministry and Departments and International Donors like UNDP-India, Provention Consortium / Asian Disaster Preparedness Centre (ADPS), etc.

## About the Workshop

Reliability, Performance and life cycle costs are real concerns for almost all in-service Civil engineering structures, resulting in increasing life cycle costs. To ensure the structural reliability and performance throughout the life of the structure, Structural Health Monitoring systems were developed. Structural Health Monitoring (SHM) is the process of implementing a damage detection and characterization strategy for engineering structures. The changes to the geometric properties and boundary conditions of a structural system connectivity, which adversely affect the system's performance. The SHM process involves the observation of a system over time period, the extraction of damage-sensitive features, and the statistical analysis of these features to determine the current state of system health. After extreme events, such as earthquakes or blast loading, SHM is used for rapid condition screening and aims to provide, in near real time, reliable information regarding the integrity of the structure. This workshop gives the basic concepts of damage detection and structural health monitoring systems including Internet Of Things (IOT) for civil engineered structures.

## Objectives of Workshop and Outcome

To expose the participants in the progress of current developments in structural health monitoring technologies of civil engineering structures. Identify key and emerging issues in research and development across many applications of Civil Engineering.

## Target Groups

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

## Major Topics to be covered

-Non- Destructive Techniques for concrete elements
-Structural health monitoring systems including IOT
-Case studies

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

## Resource Persons

Lectures will be delivered by experts from premier academic Institutions & Industries

## Registration Fee (Include GST)

Students and Research Scholars: Rs.600/-

Faculty members: Rs.900/-

Industry persons: Rs.1200/-

## How to Register

To register for the programme please send the details along with online transaction number through email to the coordinator on or before 29 th March 2019. Registration is open until seats are filled. Payment should be made through only online using the link below.

http://info.vit.ac.in/Events-VIT/health_monitor/apply.asp

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National Workshop on

# Structural Health Monitoring of the Civil Engineering Structures

**29 th March, 2019**

**Registration form**

Name: .....

Affiliation :.....

Address :..... .....

.....

Mobile Number:.....

E-Mail ID:

.....

To register for the programme please send the above details along with online transaction number through email to the coordinator on or before 29 th March 2019. Registration is open until seats are filled. Payment should be made through only online using the link below.

http://info.vit.ac.in/Events-VIT/health_monitor/apply.asp

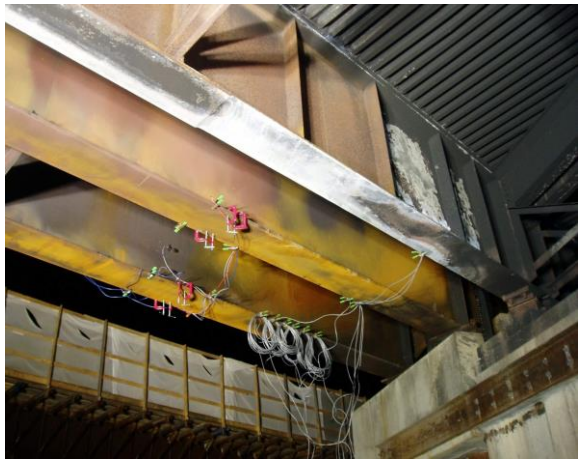
**Signature of the Participant**

## Convener:


Dr. G.P. Ganapathy
Director
Centre for Disaster Mitigation and Management
Vellore Institute of Technology (VIT), Vellore
632014, India


## Coordinator:


Dr. P. Rama Mohan Rao
Associate Professor (Grade 1)
Centre for Disaster Mitigation and Management
Vellore Institute of Technology (VIT), Vellore
632014, India

## Contact Details: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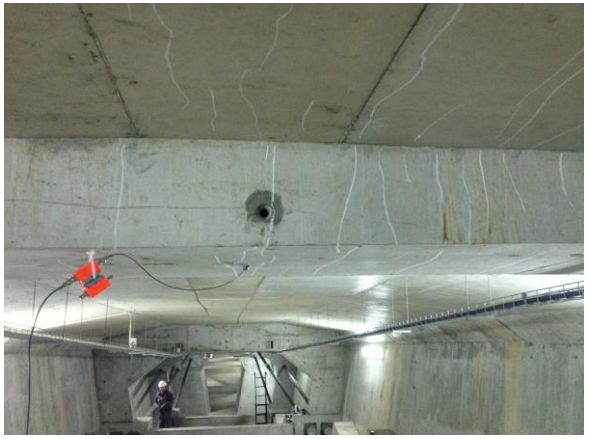
National Workshop on

Structural Health Monitoring of the Civil Engineering Structures


**29 th March, 2019**



**Organised by**

**Centre for Disaster Mitigation and Management**
**VIT, Vellore 632014 Tamil Nadu, India**