



VIT[®]

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

A 5-Day Virtual Faculty Development Program (FDP)

on

“Sustainable Repair and Rehabilitation of Constructed Facilities”

6th-10th March 2023

About VIT:

Vellore Institute of Technology (VIT) was established with the aim of providing quality higher education in accordance 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 world. Experienced teachers are strongly encouraged to nurture the students. The global standards set at VIT in the field of teaching and research spurs us on in our relentless pursuit of excellence. The University is headed by its founder and Chancellor, Dr.G.Viswanathan, a former Parliamentarian and Minister in the Tamil Nadu Government. VIT Chennai is ably spear headed by Mr. Sankar Viswanathan, Dr. Sekar Viswanathan and Mr. G. V. Selvam, Vice-Presidents; Ms. Kadhambari S. Viswanathan, Assistant Vice President; Dr. Rambabu Kodali, the Vice Chancellor; and Dr. V. S. Kanchana Bhaaskaran, the Pro Vice Chancellor.

The focus is on the following measures:

- ❖ Maximizing the industrial connectivity and creating Centres of Excellence in contemporary areas of research
- ❖ Enriching technological and managerial human capital nurtured in a multicultural ambience
- ❖ Providing a common platform for the agglomeration of ideas of personnel from various walks of life for enrichment of learning
- ❖ Encouraging participation in the national agenda of knowledge building
- ❖ Fostering international collaborations for mutual benefit in areas of research.

Organised by
School of Civil Engineering,
Vellore Institute of Technology, Chennai

in association with
UltraTech Cement



Faculty Coordinators:
Dr.V.Vasugi & Dr. M. Helen Sanithi
Professors
School of Civil Engineering

School of Civil Engineering:

The School of Civil Engineering (SCE) was established to impart state-of-the-art education, training and research in the field of Civil Engineering. The School offers B.Tech in Civil Engineering, Integrated M.Tech in Construction Management and M.Tech in Structural Engineering and Ph.D. / M.S. (Research). The School has highly qualified faculty members with good theoretical background and valuable industrial experience in diverse fields like Environmental Engineering, Water Resources, and Geosciences, Geospatial Technology, Transportation, Structural Engineering and Construction Management. The research findings are published in several peer-reviewed International Journals with high Impact factor. The School has also signed MoUs with various industries for collaborative work. Eminent professors from reputed Indian and Foreign Universities share their expertise for the benefit of the students.

About the Program:

The construction industry should focus on improving the social, economic and environmental parameters of sustainability. There are many bridges, buildings, and special-purpose structures that have deteriorated over the years due to over use or as the result of unexpected environmental circumstances or due to poor maintenance. Continued use of these dilapidated structures could put the lives of residents and those in the area at risk. Proper steps must be taken to raise their functionality and restore the necessary functions. This FDP seeks to focus on repair and rehabilitation procedures for masonry, concrete, wood, and steel structures in the light of the significance of the safety and serviceability of the constructed facilities. The methodology adopted will include real life case studies.

Sessions:

- ❖ Science Behind the Repair and Rehabilitation of RCC buildings
- ❖ Non-Destructive Evaluation of Structures
- ❖ Repair and Rehabilitation of Cultural Heritage structures
- ❖ Retrofitting of Seismically affected Buildings
- ❖ Strengthening of RCC Structures
- ❖ Repair and Retrofitting of Steel Structures
- ❖ Repair and Rehabilitation of underground facility
- ❖ Repair and Rehabilitation of Bridges
- ❖ Surface Coatings and Water Proofing
- ❖ Conservation of Historical and Traditional buildings in India
- ❖ Sustainable Materials for Repair
- ❖ Sustainable Techniques for Repair

Resource Persons:

- ❖ **Dr. A. R. Santhakumar**, Emeritus Professor, Sr. Consultant, Ultratech Cement Pvt., Ltd.
- ❖ **Dr. K. Muthumani**, Managing Director, Structflox Structural Concepts, Chennai
- ❖ **Dr. S. Thirumalini**, Professor, VIT Vellore
- ❖ **Dr. I. Yamini Sreevalli**, Associate Professor, VIT Chennai
- ❖ **Dr. V. Rajendran**, Managing Director, Hitech Concrete Solutions, Chennai
- ❖ **Dr. M. Ramesh Kannan**, Associate Professor, VIT Chennai
- ❖ **Ar. Gullapalli SV Surya Narayana Murthy**, Director at IHSRDM, Hyderabad
- ❖ **Dr. K. Vasugi**, Associate Professor, VIT Chennai
- ❖ **Dr. S. Karthiyaini**, Associate Professor, VIT Chennai
- ❖ **Dr. P. Nallathambi**, Managing Director, Sakthi Consultancy, Chennai
- ❖ **Dr. M. Shanmuga Sundaram**, Associate Professor, VIT Chennai
- ❖ **Er. Ravikumar**, Manager, Concord Instruments, Bangalore
- ❖ **Dr. M. Senthil Pandian**, Asst. Professor Sr, VIT Chennai
- ❖ **Dr. K. Karthikeyan**, Associate Professor, VIT Chennai
- ❖ **Dr. A. Arunkumar**, Associate Professor, VIT Chennai
- ❖ **Er. M. Manikandan**, Regional Specification Manager, FOSROC Chemicals Pvt., Ltd.
- ❖ **Dr. M. Helen Santhi**, Professor, VIT Chennai
- ❖ **Er. M. Senguttuvan**, Managing Director, SPEC TEAM INDIA Pvt.Ltd, Chennai
- ❖ **Er. M. Ravikumar**, Senior Deputy General Manager, L & T -Heavy Civil Infra Structures, Metros
- ❖ **Dr. K. Saravanan**, General Manager, Eversendai Construction Pvt.Ltd, Chennai

Outcome of the program:

Upon completion of the program the participants will be able to

- ❖ Gain knowledge of the tools and techniques for Non-Destructive Evaluation, Repair Materials and Techniques for Effective Conservation / Protection of Constructed Facilities
- ❖ Make decisions on Retrofitting and Strengthening Strategies

Who shall attend?

This programme is for faculty members working in Academic Institutions and teaching faculty of the future, Research Scholars, M.Tech / B.Tech Students.

Registration Link:

<https://forms.gle/6FLSAGM9wQcTurtXA>

Registration Fee: FREE

Timing : 10:00 a.m. - 12:00 noon | 2:00 p.m. - 4:00 p.m. on all days



Meeting link will be shared to the registered participants