One Day Workshop
on
ADVANCES IN PRECAST PRESTRESSED CONCRETE STRUCTURES

Organised by

Department of Civil Engineering, NIT Tiruchirappalli

9th January 2026

Seminar hall (Civil), NIT Tiruchirappalli,

About the Workshop

This workshop, organized by the National Institute of Technology Tiruchirappalli with Fulbright Specialist Prof. Devin K. Harris, Chair of Civil and Environmental Engineering at the University of Virginia, explores advancements in prestressed concrete technology, innovative design methodologies, and cutting-edge construction techniques. Precast/prestressed concrete structures are designed to meet high performance goals, which provides versatility, efficiency, and resiliency needed to meet the multi-hazard requirements and long-term demands of high performance structures. Experts from industry and academia would offer valuable lessons through their projects, case studies, and research work.

Who should attend?

- Structural designers & Consultants
- Project/Construction managers, Builders & Site engineers
- Faculty & Full-time researchers/Scientists
- Senior UG /PG students, Research scholars & Post-doc fellows

Program details

8:30 AM - 9:00 AM	Registration
9:00 AM - 9:30 AM	Inauguration
9:30 AM - 10:30 AM	Fundamentals of Prestressed Concrete: Dr. Prabha Mohandoss
10:30 AM - 10:45 AM	Tea Break
10:45 AM - 12:00 PM	Recent trends in Precast Prestressed Concrete - Infrastructure Projects: Prof. Devin K. Harris
12:00 PM - 1:00 PM	Challenges with precast prestressed concrete structures on field - Er. Ragounadin Datchanamoorty
1:00 PM - 2:00 PM	Lunch Break
2:00 PM - 3:00 PM	Applications of Precast Prestressed Concrete Technology in Buildings - Actual Case Studies: Er. Ajit Bhate
3:30 PM - 4:00 PM	Next-Gen developments in precast prestressed structural systems - Dr. Senthil Kumar R.
4:45 PM - 5:00 PM	Valedictory and High Tea

Registration and Contact Details

Coordinators

- **Dr. Prabha Mohandoss**
  9894575841, prabham@nitt.edu
- **Dr. Senthil Kumar R.**
  9566111484 , senthilr@nitt.edu

Registration link: Click here

Last date to register: Jan 07, 2026

Professional Category	Registration Fee (INR)
Industry professionals / Scientists	3000
Faculty members	1500
Students	1000

Supported by

Resource persons

Dr. Devin K. Harris, Professor and Chair of Civil and Environmental Engineering at the University of Virginia, focuses on the behavior and performance of prestressed and precast concrete systems. His research advances performance evaluation, sensing technologies, and data-driven modeling to optimize the design, maintenance, and durability of prestressed concrete structures, contributing significantly to modern infrastructure development.

Prof. Devin K Harris

Er. Ragounadin is currently heading the Technical Department at VSL India Pvt. Limited, bringing over 25 years of expertise in post-tensioning, design of enabling structures, and advanced bridge construction methods. He has contributed to several landmark projects, including the Bandra–Worli Sea Link, Mumbai Metro stay-cable bridge, and major international works such as Dubai and Kuwait Airports and the Umm Lafina Arch Bridge. He holds a B.E. in Civil Engineering from Pondicherry Engineering College and an M.Tech. in Industrial Structures from NIT Surathkal.

Er. Ragounadin Datchanamoorty

Er. Ajit Bhate

Er. Ajit Bhate, a pioneer in the world of sophisticated Precast Building Construction Industry scenario in India; in 2010 set up the first world class Precast concrete element production factory in Pune, India called Precast India Infrastructures Pvt. Ltd., after intense research of requirements of prefabrication in Indian conditions. He is also a well-known Speaker in Precast Concrete Construction Technology, Internationally and in India, apart from being a recipient of a number of awards for various conventional and high volume Precast projects.

Dr. Senthil Kumar, Assistant Professor in the Department of Civil Engineering at NIT Tiruchirappalli, specializes in structural engineering with a focus on prestressed and high-performance concrete. His research areas include nonlinear behavior of prestressed members, finite element modeling, and experimental studies on advanced concrete materials aimed at improving structural efficiency and sustainability.

Dr. Senthil Kumar R

Dr. Prabha Mohandoss, Assistant Professor at NIT Tiruchirappalli, specializes in prestressed and reinforced concrete systems. Her research explores flexural behavior, bond characteristics and rehabilitation of prestressed elements, exploring innovative materials and techniques to enhance performance and service life of modern prestressed concrete systems in infrastructure applications. She focuses on improving durability, serviceability, and sustainability of advanced prestressed concrete structures under varied environmental and loading conditions.

Dr. Prabha Mohandoss

NIT Tiruchirappalli welcomes you…