



INDIAN CONCRETE INSTITUTE (TRICHY CENTER)

IN ASSOCIATION WITH



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DEEMED TO BE UNIVERSITY
(U/S 3 of the UGC Act, 1956)



THINK MERIT | THINK TRANSPARENCY | THINK SASTRA

Two day workshop on ADVANCES IN PRESTRESSED & PRECAST CONCRETE STRUCTURES

Experts from industry/academia will enlighten and share their experience on precast/prestressed concrete structures



8:30 AM - 5:30 PM
14 & 15 APRIL, 2025



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About the workshop

This workshop, organized by Indian Concrete Institute (ICI) - Trichy Center in association with NIT Tiruchirappalli and SASTRA Deemed University Thanjavur, 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. This workshop is intended for senior undergraduate/graduate students, faculty members, researchers, and practicing engineers to gain in-depth knowledge on advances in precast/prestressed concrete structures.

About the Speakers



Er. Vinay Gupta

Er. Vinay Gupta is a Civil Engineer from BITS, Pilani (1983 batch) and Managing Director, M/S Tandon Consultants Pvt Ltd. He is an active member of various Code Committees of BIS and IRC. His contributions mainly include preparation of IRC:SP:65 (Segmental Bridges), IRC:SP:71 (Precast Pretensioned Girder Bridges) apart from other documents, presenting about 100 technical papers. He is all India Director General of IIBE (Indian Institution of Bridge Engineers) and Past President of ICI (Indian Concrete Institute).

Prof. Suriya Prakash holds a PhD from Missouri University of Science and Technology. His research focused on behavior of reinforced concrete columns under combined loading including torsion. He worked as a design engineer at STRUCTURAL Inc., USA for more than 2 years. He has authored and co-authored about 70 refereed journal publications. His major area of interests are behavior of reinforced and prestressed concrete elements, FE analysis of concrete structures, retrofitting design with advanced construction materials, fire resistance of RC elements



Prof. Suriya Prakash

Er. Amit Barde is currently serving as the Head of the Precast Initiative division at Larsen & Toubro (L&T). He is a licensed Professional Engineer in Georgia (Structural - I). He has an In-depth knowledge of IBC 2006, ASCE 07-05, ACI 318-05 and PCI Design Handbook 7 and familiarity with AISC – LRFD 13 and AASHTO. His major contribution includes design of a variety of structures such as residential buildings, data centers, warehouses, schools, office buildings, industrial plants, stadiums and parking decks. He is experienced in structural inspections for performance and damage assessment of precast concrete structures.



Er. Amit Barde

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.



Er. Ajit Bhate

About the Speakers



Er. R. Wilson Robert

Er. Wilson Robert is a licensed Civil Engineer with over 30 years of experience in the construction industry, currently serving as Director – Operations at UCON Group, India. He has been actively involved in Prestressing works since 1999. His extensive project portfolio includes working on three major LNG Terminal structures at Dabhol (Maharashtra), Dahej (Gujarat), and Cochin (Kerala). He also served as Post Tensioning Manager in the iconic Bandra Worli Sea Link Project and as Technical Support Manager in the Stay Cable Bridge Project in Goa. Additionally, he has contributed to Post Tensioning and Pre Tensioning works in major metro projects like Chennai, Bangalore, Indore, and Bhopal Metros. .

Dr. Nikhil Bugalia is an Assistant Professor at the Building Technology and Construction Management division at IIT Madras. His research is focused on finding solutions to the challenges related to the Occupational Health and Safety and Sustainability of the Construction Industry. His research group works at the intersection of applying technical tools such as Text-Mining, Computer Vision (CV), and Virtual Reality (VR) and System-thinking-based qualitative and quantitative methodologies such as system-dynamics modeling and case studies approach to identify risks and develop and implement solutions for the construction sector



Dr. Nikhil Bugalia



Dr. Prabha Mohandoss

Dr. Prabha Mohandoss is presently serving as an Assistant Professor in Structural Engineering division at National Institute of Technology Tiruchirappalli. Her research area focuses on characterising mechanical performance of construction materials, assessing structural performance of prestressed concrete systems, repair and strengthening of conventionally reinforced and prestressed concrete systems, and evaluating the effect of corrosion on structural performance of reinforced concrete systems

Organizers

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Assistant Professor, NIT Tiruchirappalli

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Dr. K. Sasiekalaa (EC Member)
Former Professor, MAMCET, Trichy

PROGRAMME SCHEDULE : 14, APRIL 2025 (MONDAY)

8:30 AM - 9:00 AM	Registration
9:00 AM - 9:30 AM	Inauguration
9:30 AM - 11:00 AM	Basics of Prestressed Concrete: Er. Vinay Gupta
11:00 AM - 11:30 AM	Tea Break
11:30 AM - 1:00 PM	Ultra-High-Performance Concrete in Precast Prestressed Construction: Dr. Suriya Prakash
1:00 PM - 2:00 PM	Lunch Break
2:00 PM - 3:30 PM	Applications of Precast Prestressed Concrete Technology in Buildings - Actual Case Studies: Dr. Ajit Bhate
3:30 PM - 4:45 PM	Occupational, Health, and Safety Risks for Pre-Cast Concrete Structures: Challenges and Solutions: Dr. Nikhil Bugalia
4:45 PM - 5:00 PM	Tea Break
5:00 PM - 5:30 PM	Lab Visit

PROGRAMME SCHEDULE : 15, APRIL 2025 (TUESDAY)

9:00 AM - 10:30 AM	Overview of Precast Concrete Structures : Er. Vinay Gupta
10:30 AM - 10:45 AM	Sponsor Presentation 1
10:45 AM - 11:00 AM	Sponsor Presentation 2
11:00 AM - 11:30 AM	Tea Break
11:30 AM - 1:00 PM	Precast Prestressing - Optimize the Duration and Cost - Case Studies from Landmark Projects - Er. R Wilson Robert
1:00 PM - 2:00 PM	Lunch Break
2:00 PM - 3:00 PM	State of the Art - Precast Concrete Technology for Residential and Commercial Buildings - Mr. Amit Barde
3:00 PM - 4:00 PM	Repair Strategies for Prestressed Concrete Structures: Dr. Prabha Mohandoss
4:00 PM - 4:30 PM	Tea Break
4:30 PM - 5:00 PM	Validation

Registration Details

Professional Category	Registration fee in INR (including 18% GST)	
	ICI member	Non ICI member
Industry professionals / Scientists	2950	3540
Faculty members	1770	2360
Students	885	1180

Note: Accommodation for the participants may be arranged in the institute guest house/hostels on request (chargeable basis). Normally it will be a twin shared accommodation

Bank details

A/c Holder's name	Indian Concrete Institute
Bank name	ICICI bank
Branch name	Cenotapg road branch, Chennai
Account number	000101208599
Account type	SB account (INDIA)
NEFT/IFSC code	ICIC0000001
GST number	33AAATI0256J1ZX



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Sponsorship

Category	Complementary delegates (Presentation)
Platinum (3 Lakhs INR)	3 (10 mins presentation)
Gold (2 Lakhs INR)	2 (5 mins presentation)
Silver (1 Lakhs INR)	1

Brochure in the kit will be included and table display will be provided

ICI Trichy Center Welcomes You...