

Construction Technologies for Sustainable Infrastructure (CTSI)

9 to 5 pm, September 24, 2024 (Tuesday), IIT Madras Research Park, India

Organized by



About the workshop: In this workshop, we intend to focus on the practical applications of certain technologies and processes and how they can improve project performance.

We will have **interactive/game sessions** on the following three topics.

Topic 1 (9 to 10:30 am): Contract Specifications to Implement Technological Innovations in Project Sites; *Dr. Murali Jagannathan, IIT Madras*

Specifications are techno-legal documents that must be carefully drafted, balancing legal compliance and technological requirements. The key elements of a good specification will be discussed, and subsequently, the participants will be asked to develop their custom specifications for an item of their choice.

Topic 2 (11:00 am to 12:00 pm): Implementing Lean Construction in Project Sites – Demonstration through Games; *Prof. Ashwin Mahalingam, IIT Madras*

Lean construction refers to using processes, tools, and techniques that aim to reduce non-value-adding activities (like waiting, unnecessary motion, excess inventory, etc.) and thereby help improve overall project productivity. Actual implementation at the site is challenging as lean implementation requires a tectonic shift in mindset. To help understand the practical benefits, the instructor will introduce the airplane game to appreciate the benefits of lean implementation.

Topic 3 (1:30 pm to 5:00 pm): Target Value Delivery; *Dr. Nikhil Bugalia and Thirumalai Rajan, IIT Madras*

The traditional process (target value design) prioritizes design as a cost driver, dictating that designers must know what they're building before determining costs. Today's process (target value delivery) makes cost, value, and constructability the drivers of design. The participants will learn the concept of Target Value Delivery through an interactive game, learning about balancing financial and sustainability values for a project.



Dr. Murali Jagannathan



Prof. Ashwin Mahalingam



Dr. Nikhil Bugalia



Mr. Thirumalai Rajan

Registration Fee (including taxes)

On or before September 15, 2024 Spot registration is not allowed	Indian	Foreigner
	INR 4000	USD 50

Scan this QR code to register:



Coordinators

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