

## About NITTTR, Kolkata

National Institute of Technical Teachers' Training & Research (NITTTR), Kolkata was established in 1965 as Technical Teachers' Training Institute, Calcutta. The Institute was established by the Ministry of Education, Govt. of India, with a primary focus to provide in-service training to the teachers and staff of Polytechnic Institutions. In 2003, Govt. of India accorded national status to this Institute along with three other sister Institutes located at Bhopal, Chandigarh and Chennai in recognition of their expert services rendered to the society for overall improvement of the quality of Technical Education System.

As a National Institute, current focal activities include staff development programmes, development of learning resource materials, curriculum development for the entire gamut of technical education, research in various fields, educational management and rendering extension services to various academic bodies both in India and abroad. At present NITTTR, Kolkata is also offering four AICTE approved regular M. Tech. Programmes.

## About the Webinar:

Concrete is the second largest material in the world w.r.t. per capita consumption which proves its worth as a construction material. The design philosophy of Reinforced Concrete has been evolving rapidly to cope with the latest technological improvements taking place throughout the globe. Unfortunately, the mother code for concrete in India, IS 456, has not been revised over the last 21 years but the IRC 112, first published in 2011 and revised in 2020 has incorporated significant modifications in reinforced concrete design, at par with International Standards. These modifications are also expected to be incorporated in the forthcoming revision of IS: 456. The webinar will highlight the fundamental design principles of IS 456 along with the improvements in reinforced concrete design philosophy as per IRC 112-2020. An introduction to modern day RC design incorporating strength, serviceability and ductility using a new generation software will be included.

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## Highlights of the Webinar:

- All participants will receive participation certificate
- Last date of Registration 27/08/2021
- Registration is free but mandatory

## Objective:

The webinar will address the basic principles of reinforced concrete design as envisaged in the standards and highlight the improvements in design philosophy as per IRC 112 - 2020

## Resource Persons

Apart from the Coordinator Mr. Sanjib Das, Manager, Global Technical Support, Bentley Systems, will discuss on the latest version of STAAD.Pro Connect Edition regarding reinforced concrete design

## Tentative schedule:

Inauguration - 9-45 to 10-00 AM Inauguration of the Webinar by Prof. Debi Prasad Mishra, Hon'ble Director, NITTTR, Kolkata  
Session I – 10-00 to 10-10 AM Overview of the Webinar  
Session II – 10-10 to 10-50 AM Basics of design philosophy as per IS 456 - 2000  
Session III – 11-00 to 11-35 AM Shortcomings of Limit State Method as per IS 456 - 2000  
Session IV – 11-40 to 12-15 PM Improvements in Limit State Method as envisaged in IRC 112 -2020  
Session V – 12-20 to 01-00 PM Introduction to strength and ductility design as per STAAD.Pro Connect Edition, Mr Sanjib Das, Manager, Global Technical Support, Bentley Systems  
Feedback and Valediction

**Free Registration**

Last date of Registration:  
27/08/2021 at 4:00 PM

# Webinar on EVOLUTION OF REINFORCED CONCRETE DESIGN PHILOSOPHY FROM IS 456- 2000 TO IRC 112-2020

August 28, 2021

Organized by



Department of Civil Engineering  
National Institute of Technical Teachers'  
Training and Research, Kolkata  
(Ministry of Education, Govt. of India)  
Block-FC, Sector-III, Salt Lake City  
Kolkata – 700 106

**Coordinator**  
**Dr. Santanu Bhanja**  
**Professor, Civil Engg. Department**

## Target Participants:

Faculty members, research scholars, students, industry professionals, design engineers, architects working in the domain of RC design

**Registration Link:**  
<https://forms.gle/yiY3Kn5tSkoMLMz8A>

Mode of  
Event Virtual