



Indian Concrete Institute



Mahindra™  
University  
Global Thinkers. Engaged Leaders.

3 Days

# INTERACTIVE ICI WORKSHOP

## on NEW IS:456 DRAFT

Organized by ICI Hyderabad Center in association with Department of Civil Engineering, MU



IS 456 (2000)



IS 1343 (2012)

8<sup>th</sup> - 10<sup>th</sup> January, 2026

APJ Abdul Kalam Auditorium, Mahindra University

## About the Workshop

There is a sea change in the latest version of IS:456 (draft) compared to the previous code. In this 5th revision prestressed concrete design has also been included and title of the code changed to "Structural Concrete: Code of Practice", consequently IS:1343-2012 will be withdrawn after publication of the 5th revision of IS:456. Six design criteria have been included, namely strength, serviceability, durability, robustness, integrity and restorability. Concepts of durability and service life have been added. Determination of concrete properties (including time dependent ones) have now been based on the French document CEB fib Model Code 2020 (latest as of now). Items like design for fire, blast & impact have been included.

We have carefully chosen the faculty from the code makers, so as to make deliberations more meaningful. Hence, there are more than enough reasons to have a workshop and understand most of the new draft code IS:456.

### Who should attend

**Academicians, Researchers, Students, Practicing Consultants, Constructors, Industry**

## About Indian Concrete Institute

The Indian Concrete Institute (ICI) stands as a colossal force in the Indian professional landscape, a leading body empowering individuals and organizations deeply invested in the world of concrete. As a non-profit organization, ICI is relentlessly focused on spreading the concrete knowledge, championing advancements in technology and construction, and fueling crucial research endeavors. From humble beginning in 1982 with just 500 members across 5 regional centers, ICI has exploded onto the scene. Today, it's a thriving community of over 15,000 passionate members representing every facet of the concrete industry.

With 50 regional centers strategically located nationwide. These regional centres are the sources of activity, constantly hosting dynamic events like seminars, workshops, conferences, exhibitions, and "Deminars" – a unique blend of demonstrations and seminars – throughout the year, both Nationally and Internationally.

## About Civil Engineering Department, Mahindra University

Mahindra University is a multidisciplinary institution in India committed to nurturing future leaders. Its curriculum combines academic rigour with industry relevance, focusing on engineering, business, law, education, design, media, and hospitality management. With a strong emphasis on experiential learning, it offers industry internships, global immersion programs, and research opportunities, fostering holistic development and innovation. Mahindra University is sponsored by Mahindra Educational Institutions (MEI), a subsidiary of Tech Mahindra, the flagship IT company of the Mahindra Group.

The Civil Engineering Department at Mahindra University offers excellence in education, research, and teaching. The department is dedicated to nurturing the future leaders of the civil engineering profession and making significant contributions to the field. The goal is to provide a dynamic learning environment that equips students with the knowledge, skills, and ethical values necessary to excel in the field of civil engineering. The faculty at the University are established leaders in their fields who are committed to growth in education and innovation of the students. They leave no stone unturned to pave the way for students who will be the future leaders of the country. The research areas span across technologies and thinking which provides cutting-edge innovation to the students to develop their mindset.

## Conveners



**Er. Vinay Gupta**

Managing Director  
M/s. Tandon Consultants Pvt. Ltd



**Prof. Visalakshi Talakokula**

Professor & Associate Dean, ÉCSoE,  
Mahindra University

## Organizers



**Dr. Venkateshwar Rao M. V**

Chairman  
Indian Concrete Institute, Hyderabad



**Prof. Hari Prasad Chennarapu**

Professor & HoD, Civil Engineering,  
Mahindra University



**Dr. Kalyana Rama Jyosyula**

Associate Professor, Civil Engineering,  
Mahindra University

## Schedule

### 8<sup>th</sup> January, 2026

Time	Session / Activity	Speaker
8:30 - 9:30 AM	Registration	
9:30 - 10:30 AM	Inauguration	
10:30 - 11:00 AM	Tea / Coffee	
11:00 AM - 12:30 PM	<b>Various Limit States and Loads &amp; Stresses</b>	<b>Prof. Ravi Sinha</b>
12:30 - 1:30 PM	<b>Concrete and its Constituents</b>	<b>Prof. Manu Santhanam</b>
1:30 - 2:30 PM	Lunch	
2:30 - 3:30 PM	<b>Reinforcing Steel &amp; its Properties</b>	<b>Er. Shailendra Sharma</b>
3:30 - 4:30 PM	<b>Prestressing Systems</b>	<b>Er. Vinay Gutpa</b>
4:30 - 5:00 PM	Tea / Coffee	
5:00 - 6:00 PM	<b>Mix Design, Special Concretes</b>	<b>Prof. K V L Subramaniam</b>

### 9<sup>th</sup> January, 2026

Time	Session / Activity	Speaker
9:00 - 10:00 AM	<b>Reinforced Concrete</b>	<b>Prof. Rupen Goswami</b>
10:00 - 11:00 AM	<b>Modelling &amp; Analysis</b>	<b>Er. Aman Deep Garg</b>
11:00 - 11:30 AM	Tea / Coffee	
11:30 AM - 1:00 PM	<b>Design: Flexure, Shear &amp; Torsion and Axial Forces</b>	<b>Er. Aman Deep Garg</b>
1:00 - 2:00 PM	Lunch	
2:00 - 3:00 PM	<b>Detailing of Structures</b>	<b>Er. Aman Deep Garg</b>
3:00 - 3:30 PM	Tea / Coffee	
3:30 - 5:00 PM	<b>Design &amp; Detailing of Prestressed Concrete</b>	<b>Er. Nikhil Agrawal</b>
5:00 - 6:00 PM	<b>Construction Aspects</b>	<b>Er. Vinay Gupta</b>

### 10<sup>th</sup> January, 2026

Time	Session / Activity	Speaker
9:00 - 10:00 AM	<b>Quality Control &amp; Testing</b>	<b>Dr. V V Arora</b>
10:00 - 11:00 AM	<b>Durability of Structures</b>	<b>Dr. P N Ojha</b>
11:00 - 11:30 AM	Tea / Coffee	
11:30 AM - 12:30 PM	<b>Blast &amp; Impact</b>	<b>Prof. Manish Kr</b>
12:30 - 1:30 PM	<b>Fire Resistance</b>	<b>Prof. Anil Agrawal</b>
1:30 - 2:30 PM	Lunch	
2:30 - 4:30 PM	<b>Panel Discussion (Moderator: Er. Vinay Gupta)</b>	
4:30 PM	Tea / Coffee	

## Program Highlights

- **Direct access to the IS 456 drafting team** for real-time clarification of practitioner queries.
- **Bridging academia, industry, and BIS** for unified interpretation of the draft provisions.
- **All feedback formally documented** for consideration in the final draft of IS 456.

## Speaker Profiles



### **Prof. Mahesh Tandon**

**Managing Director, Tandon Consultants Pvt. Ltd. (TCPL)  
Guest Faculty Member, IIT Gandhinagar**

He is a leading figure in India's structural engineering consultancy sector, primarily known as the Managing Director of Tandon Consultants Pvt. Ltd. (TCPL) and a guest faculty member at IIT Gandhinagar. With extensive experience spanning decades, he has been instrumental in the design of complex, large-scale infrastructure projects across India, including numerous bridges, flyovers, and major metro rail systems in cities like Delhi and Bangalore. Prof. Tandon is a former President of the Indian Association of Structural Engineers (IAStructE) and holds key roles in developing technical guidelines and professional development courses focused on concrete bridge design using Indian codes.



### **Prof. Ravi Sinha**

**Professor, Department of Civil Engineering, IIT Bombay**

He is a highly respected academic & structural engineering expert at the Indian Institute of Technology (IIT) Bombay, where he serves as a Professor in the Department of Civil Engineering and previously as Dean of Alumni & Corporate Relations. His specialization lies in critical areas such as earthquake engineering, structural dynamics, and the implementation of base isolation technologies for seismic safety. Beyond his academic role, he is a significant contributor to national engineering standards, notably serving as the Chairman for the Structural Safety Sectional Committee of the Bureau of Indian Standards (BIS) and co-chairing a panel of experts for the Ministry of Road Transport and Highways (MoRTH).



### **Prof. K L V Subramaniam**

**Professor, Department of Civil Engineering, IIT Hyderabad**

He is a distinguished Professor in the Department of Civil Engineering at the Indian Institute of Technology Hyderabad (IITH), renowned for his expertise in concrete materials, structural health monitoring, and material characterization. Holding a B. Tech from IIT Delhi and a Ph.D. from Northwestern University, he has held key administrative roles at IITH, including Head of the Civil Engineering Department and Dean (Planning). His research is internationally recognized, focusing on the behavior of cementitious materials, sensor technologies, and 3D printing applications, earning him prestigious accolades such as the Early Career Award from the National Science Foundation (USA) and multiple teaching excellence awards at IITH.



### **Prof. Rupen Goswami**

**Professor, Department of Civil Engineering, IIT Madras**

He is a Professor of Civil Engineering at IIT Madras, specializing in structural and earthquake engineering. With a B.E. from Jadavpur University and M.Tech and Ph.D. degrees from IIT Kanpur, he has built a strong academic and research career focused on improving the seismic safety of buildings and infrastructure.

His work covers nonlinear structural response, performance-based seismic design, RC and steel structural behaviour, and earthquake-resistant design principles. He has authored books such as *Some Concepts in Earthquake Behaviour of Buildings* and has guided numerous postgraduate and doctoral students in the field. Through his teaching, research, and publications, Dr. Goswami has contributed significantly to advancements in earthquake engineering and to improving the resilience of civil structures in seismic regions.



### **Er. Vinay Gupta**

**Managing Director, M/s. Tandon Consultants Pvt. Ltd**

He is a Civil Engineer from BITS, Pilani, Managing Director, M/S Tandon Consultants Pvt Ltd. Er Gupta over his 4 decades of rich experience specializes in bridges, flyovers, underground & elevated metro structures, precast & long span

tall buildings. He is an active member of various Code Committees of BIS and IRC. He is recipient of several awards from IEI, IBC and UKIERI and the coveted S B Joshi Memorial Award 2019. He has been lecturing as Guest Faculty in IAHE, CRRI, CIDC, ISDA, DPC, etc. and presented about 100 technical papers. Er Vinay Gupta is all India Director General of IIBE (Indian Institution of Bridge Engineers) and Past President of ICI (Indian Concrete Institute)



### **Er. Nikhil K. Agrawal**

**Principal Consultant, TCPL**

He is a Civil Engineering graduate from VNIT Nagpur and postgraduate in Structural Engineering from IIT Roorkee, with 19 years of professional experience in elevated and underground metro and highway infrastructure projects. He has

led the structural design of the Chennai Central Underground Station, widely referred to by The Times of India as the "Mother of All Stations." His experience also includes involvement in complex double-decker (Metro + Highway) projects for Nagpur Metro and DMRC.



### **Er. Shailendra Sharma**

**Former DG CPWD**

He is a Highly accomplished civil engineering professional with over 38 years of Group 'A' service in CPWD, including tenure as Director General, leading landmark national infrastructure projects. An expert in planning, design, and execution of large-scale building, transportation, and urban development the

Central Vista projects, notably the Central Vista Project and New Parliament Building. Academically distinguished with advanced qualifications from IIT Delhi, University of Roorkee, and international exposure from Japan. Currently empaneled as an Arbitrator & Dispute Resolution Board member with premier institutions such as NHAI, AAI, & DDA, bringing deep technical & dispute resolution expertise.



### **Prof. Manu Santhanam**

**Professor, Department of Civil Engineering, IIT Madras**

He is a leading Indian materials and concrete technologist and a Professor in the Department of Civil Engineering at IIT Madras, where he also serves as the Dean of Industrial Consultancy and Sponsored Research (ICSR). With degrees from IIT Madras and Purdue University, he has built a distinguished career focused on cement chemistry, concrete durability, microstructural characterization, sustainable binders, and emerging technologies such as 3D-printed concrete. His work bridges fundamental materials science with practical engineering, contributing significantly to infrastructure durability, innovative construction materials, and heritage-structure conservation. Widely published and active in national and international professional bodies, he has received numerous awards, including recognition from the Indian Concrete Institute and INAE, underscoring his strong impact on concrete technology research and education in India.



### **Prof. Anil Agrawal**

**Associate Professor, Department of Civil Engineering, IIT Hyderabad**

He is an Associate Professor in the Department of Civil Engineering at IIT Hyderabad. His research focuses on the behaviour and design of structures under fire, impact, and earthquake loading, the development of fire-resistant structural solutions, and lightweight structural applications using FRP composites. He completed his BTech and MTech at IIT Kanpur, where he contributed to the GSDMA project on revised earthquake design codes and commentaries. He earned his PhD from Purdue University in the area of structural fire engineering.



### **Er. Aman Deep Garg**

**Managing Director, Creative Design Consultants and Engineers Pvt. Ltd. (CCEPL)**

He is an engineer specializing in structural safety, resilience, and consultancy, currently serving as the Managing Director of Creative Design Consultants and Engineers Pvt. Ltd. (CCEPL). His professional focus often involves conducting crucial structural audits to assess and ensure the safety of existing building infrastructure. Garg is a recognized expert within the field, contributing to the development of national standards as an expert member of the National Building Code (NBC) panel under the Bureau of Indian Standards (BIS).



### **Dr. V V Arora**

**Former Joint Director and Head, Centre for Construction Development**

He is a Former Joint Director and Head, Centre for Construction Development and Research, National Council for Cement and Building Materials, Ballabgarh. A civil engineering professional with BE from PEC Chandigarh and M.Tech from BITS Pilani, bringing over 40 years of experience in construction, design, R&D, quality assurance, and training. Specialized in concrete technology, durability, service life design, and waste utilization in concrete. Currently Co-Chairman of BIS Committee CED 02 and Convener for revision of IS 456, with active roles in BIS, IRC, and ISO TC-71 committees, and author of 50+ national and international research publications.



## **Prof. Manish Kr**

Associate Professor, IIT Bombay

He is an Associate Professor in the Department of Civil Engineering at IIT Bombay, with a PhD and M.S. from SUNY Buffalo and a B.Tech from IIT Kanpur. A licensed Professional Engineer (PE), California, USA. His research focuses on developing tools, guidelines, and design solutions for structures subjected to blast, ballistic, and impact loads. He serves as Convener of the BIS Working Group on Blast-Resistant Structures (IS 4991) and has received awards from DRDO and MES for contributions to protective structures for defence applications



## **Dr. P N Ojha**

Joint Director & Head – Centre for Construction Development and Research

He is a senior expert in cement, concrete, and construction materials, with extensive experience in research & development, performance-based specifications, durability design, alternate and recycled aggregates, industrial by-products, and standardization. He has played a key role in revision, formulation, and harmonization of Indian Standards with international codes, contributing significantly in the revision of IS 456.



## Payment Details

### Registration

Category	Course Fee + Temporary Membership Fee	GST (+18%)	Total Payable
ICI Members	Rs.6,000/-	Rs.1,080/-	Rs.7,080/-
Non - Members of ICI	Rs.8,000/- +Rs.500/-	Rs.1,530/-	Rs.10,030/-
ICI Faculty/ Student Members	Rs.2,000/-	Rs.360/-	Rs.2,360/-
Faculty/ Student	Rs.2,500/- + Rs.250/-	Rs.495/-	Rs.3,245/-

For Registration [Click here](#)

For Registration queries: **Indian Concrete Institute**

+91 98940 28542

044-24792602, 24795148, 42115996

indconhq@gmail.com

### For Exhibiting Stalls

Cost: Rs.20,000/- + GST 18% = **Rs.23,600/-**

Size of the stall: **13' x 13' x 8'**

For booking stalls contact:

hari.chennarapu@mahindrauniversity.edu.in

srikalyanarama.j@mahindrauniversity.edu.in

### Accommodation

Room Type	Charges (per Day)	For Bookings
Double sharing - Guest House	Rs.1,500/-	<a href="#">Click here</a>
Studio Accommodation - Double sharing	Rs.800/-	<a href="#">Click here</a>
Hostel for Students	Rs.300/-	<a href="#">Click here</a>

Note: 1. Inclusive of Breakfast, Dinner & Taxes 2. Accommodation subjected to availability

For Accommodation queries: **Mr. Venkata Chaitanya Goud**

+91 97013 39928

chaitanya.av@mahindrauniversity.edu.in

[www.mahindrauniversity.edu.in](http://www.mahindrauniversity.edu.in)

Address: Mahindra University, Survey No: 62/1A, Bahadurpally, Jeedimetla, Hyderabad, Telangana, INDIA 500043

To Navigate [Click here](#)