

A Professional Development Program

RCC Design Using Spreadsheet Applications

(A Hands-on Training Program)

Sat, 5th November 2022

Organized by



Supported by



ECI



ISSE



CIDC



IC-ACI

Venue

Sardar Patel College of Engineering
Bhavan's Campus, Munshi Nagar
Andheri (West), Mumbai 400058

Contact/ Registration

Dhargalkar Technoosis (I) Pvt. Ltd.

P/ WA: 8591086913, 9082212474, 9819732195

E: cpd.technoosis@gmail.com W: www.technoosis.co.in

Objective

A structural engineer is deeply concerned that his structural design must be safe, serviceable and economical as well. Even in this age of end-to-end structural analysis and design packages, he desires better insight and control on his design so that the package does not become a "Black Box". Sometimes he needs to redesign some members to incorporate latest revisions or to suit site specific needs or for better economy. On the other hand, while approving a design, an approving authority or reviewer may wish to check it by independent means.

This program will provide hands on training to design various structural members using readymade MS-Excel applications developed by Technoosis. The applications are user friendly, interactive and produce elegantly formatted outputs which can be directly submitted to clients or approving authorities.

The design applications can be used for designing structures, reviewing existing designs, incorporating later revisions or for finding the capacity of structural members for given design parameters.

Program Content

This Program will cover following readymade design applications, which are based on IS 456:2000:

1. Analysis of Continuous Beams
2. Analysis of Substitute Frames
3. Design of Rectangular Beams
4. Design of Flanged Beams (T Beam & L Beam)
5. Design of Two-Way Slab Panels with Provision for Torsion at Corners
6. Design of Simply Supported Two-Way Slabs
7. Design of Rectangular Columns Under Uniaxial and Biaxial Bending including slenderness effects
8. Design of Sloped and Flat Footings

A single user license for the design applications shall be provided to the participants free of cost.

Pedagogy

Following aspects of the design applications shall be illustrated through hands on exercises which the participants shall carry out on their own laptops:

- User interface and functionality
- Numerical examples & interactive trials
- Intermediate design values & final results
- Printing design calculations for submission
- Calculating design capacity

Benefits

- Hands on training and interactive presentations
- Practical insights through numerical exercises covering different sets of data & multiple trials
- Well formatted outputs with intermediate values, which can be directly submitted for approval
- Applications can be used for new structural design, reviewing existing design, incorporating later revisions in design parameters or estimating capacity of existing structural members
- A certified CPD Program of 6 Credit Hours

The following shall be provided to each participant:

- A free license for the design applications
- Proceedings/ Model Exercises with Solutions
- A Free online Follow-up Session

Faculty

The Program will be conducted by Umesh Dhargalkar, a Consulting Structural Engineer and Sr Professional Engineer with 35 years' experience in the areas of Structural Design, Structural Rehabilitation and Construction Project Management. He is member/fellow of many professional bodies and has published several technical papers. He has organized and conducted several training programs for civil/structural engineers and construction professionals. [Linkedin.com/in/umeshdhargalkar](https://www.linkedin.com/in/umeshdhargalkar)

Who Should Attend

- Practicing civil/ structural engineers, consultants
- Civil/ structural engineers from private sector
- Civil engineers from government, municipal and statutory authorities
- Faculty and students from civil engg colleges
- All professionals involved in structural design/ proof checking

Venue

Sardar Patel College of Engineering, Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai 400058.

Close to Andheri West Railway Station and Azad Nagar Metro Station. At a short drive from Mumbai Airport.

Registration

- To register for this Program, use the Google Form <https://forms.gle/PCbvMsRziFJktiH8>
- *All participants shall bring their own fully charged laptops for the Program.*
- *Those who register well in advance will be able to install the design applications at their home/ office and save time at the venue. Others can report to the venue early on the day of the Program and install them there.*

For further information or assistance please contact:

Dhargalkar Technoosis (I) Pvt. Ltd.

D-104, Radha Govind, Near Siddharth Nagar
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Participation Fees

Participation fees per person inclusive of training, lunch, refreshments and GST are as under:

- Up to 29th October 2022 ... Rs. 5,900/-
- From 30th October 2022 ... Rs. 7,080/-

Special discounts are offered as follows:

- Past Participants of Our Programs ... 10%
- Members of ECI, ISSE, IC-ACI ... 10%
- Students/ Fresh Graduates/ Faculty ... 20%

Additional Discounts for Group Registrations (PI call):

- Group of 3 or 4 ... 10%
- Group of 5 or more ... 15%

Being a Hands-on Program, Seats are limited to 50. Registration shall be on 'first come first served' basis.

Fees may be paid by cheque/ draft drawn in favour of "Dhargalkar Technoosis (I) Pvt Ltd" **OR** transfer to Current A/c 59200027051997, HDFC Bank, Kandivali East, Mumbai 400101, IFSC HDFC0000182 **OR** by scanning this QR Code.



If the Program is cancelled, Organizers' liability shall be limited to refund of participation fees only.

Schedule

- This Program is non-residential and will be conducted on 05.11.2022, 9:30 AM to 5:30 PM.
- Registration & breakfast shall start at 8:30 AM.
- Session wise Schedule and further instructions shall be sent to registered participants.
- The date and time of the Online Follow-up Session shall be announced during the Program.

Certification

Certificates of 6 CPD Hours will be awarded to participants. This Program is accredited and supported by ECI & CIDC and can help Professional Engineers fulfill their requirement of CPD Hours.

About Technoosis

Dhargalkar Technoosis (I) Pvt. Ltd. is an organization providing consultancy and professional training in various fields of Construction Industry. Technoosis programs are accredited by ECI & CIDC. It has imparted over 30,000 manhours of professional training to more than 1600 participants from across India. Technoosis programs are designed and conducted by experts with high professional background & are supported by professional bodies.

For list of our Programs, visit www.technoosis.co.in

Accreditation & Support

Engineering Council of India (ECI) is an Apex body of engineers, formed by 32 Professional Organizations/ Institutions of Engineers. ECI is forming a National Register of Professional Engineers & encourages Continuous Professional Development.

Construction Industry Development Council (CIDC) is an Apex body formed by the Planning Commission, Government of India and the Indian construction industry. One of its goals is training of manpower at all skill levels of Construction Industry.

This 6 CPD Hour Program is accredited and supported by ECI & CIDC. It is also supported by Indian Society of Structural Engineers and India Chapter of American Concrete Institute.