



05-Day Offline Faculty Development Program (FDP)
UNDER COA-TRC TEACHERS TRAINING PROGRAM (TTP)

DATE: 05/01/2026 TO 09/01/2026

Parametric Design and 3D Concrete Printing in Architecture

Theme: Blending Tradition, Technology & Tectonics in Architectural Practice

About the Program

The architectural profession is undergoing a paradigm shift where traditional design approaches are being redefined through computational design and digital fabrication technologies. This program empowers architecture faculty and professionals to integrate parametric design thinking with 3D concrete printing, fostering responsive, sustainable, and innovative built forms.

Participants will gain:

- Exposure to Grasshopper, Rhino, and related computational tools.
- Insights into 3D concrete printing processes and workflows.
- Strategies for integrating traditional principles with emerging digital technologies.
- Opportunities for experimental prototyping, site visits, and live demos.

- Gain insights on **parametric design tools** (Rhino, Grasshopper).
- Understand the **workflow of 3D concrete printing**—from digital model to built form.
- Learn to **integrate contemporary design principles** with computational processes.
- Explore **hands-on workshops** for **material behavior** and its influence on digital fabrication.
- Apply **logic-based, algorithmic design thinking** to real architectural problems.
- Experience **site visits and live demonstrations** with industry experts.

Key Takeaway



Registration Details

- **Link to Register:** [Click here to Register](#)
- **Registration Fees:**
 - ₹8,000/- without accommodation
 - ₹12,000/- with shared accommodation
 - ₹4,000/- + Nomination under CTP 2024-2025 with shared accommodation.
- **Link for Online Payment:** [Click Here to Pay](#)
- **Nomination Form (for CTP 2024–25):** [Download Here](#)
- **Registration on a first-come, first-served basis**

Note for Participants

- Teachers/architects who wish to register for the training program either under the Collaborative Training Program (CTP 2024-25) or as independent individuals may do so by filling out the Google form available on the given link.
- To confirm registration, kindly upload proof of payment towards the registration fees and/or nomination form on college letterhead before submitting the registration form.
- This program is not for students.
- A certificate of said training program shall be awarded, only after successful completion of the training program by participant i.e. attending all sessions and submitting all assignments, EOPT and feedback form of training program.
- **EoPT session will on 9th January 2026, 4.15 pm to 5.15 pm.**

Submission of Proof

Email scanned proof of payment and application form (duly authenticated by HOD/Principal) to:
coattp.sbpcoad@gmail.com



Key Speakers



Ar. Amit Gupta
From Tradition to Technology:
Understanding
Parametric Design



Ar. Jwalant Mahadevswala
Designing with Purpose—
Parametric Design for Community-
Oriented Spaces



Ar. Shripad Bhalerao
Studio-Based Learning for
Parametric—Framing studio
projects with logic-based design



Ar. Khushbu Davda
Urban Morphologies—
Applying parametric tools to
urban-scale challenges



Ar. Poonam Sardesai
Principles of Parametric
Thinking—Rule-based design,
form development, Associative
geometry



Ar. Kaushik Sardesai
Parametric Form Generation
with the help of different
software platforms



Ar. Taqbir Fatima
Structural Optimization Using
Parametric Tools
(Hands-on Workshop)



Ar. Krishna Murthy
Visit Fold Design Studio to
explore narrative-driven spatial
experiments and material
innovation.



Er. Shashank Shekhar
Design to Print—
Workflow of 3D Concrete
Printing in Practice



Dr. D.S. Lal
Digital Fabrication and
Parametric Prototyping
(on-site demonstration)

Last date:
30 Dec. 2025

Dates: 5th–9th Jan 2026

Timings: 10:30 AM – 5:45 PM

Venue: PCET's S. B. Patil College of Architecture and
Design, Pune.

**Inauguration by: Ar. Abhay Purohit, President,
Council of Architecture.**

Day 1 – Parametric Thinking

Tradition to Technology • Community-Oriented
Design • Patterns to Algorithms

Day 2 – Teaching Computational Design

Studio Strategies • Urban Morphologies
• Logic-Driven Form Generation

Day 3 – Material Meets Code

Structural Optimization • Smart Materials
• **Hands-on Workshop**

Day 4 – Fabrication & Narrative

Site Visit – Fold Design Studio, Mumbai
• Prototyping & Discussions

Day 5 – 3D Concrete Printing

Design-to-Print Workflow • Digital Prototyping
• **Live Printing Demo**



Program Highlights

Convened by:
Prof. Jayashree Deshpande,
Director,
COA-TRC, Pune

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