COUNCIL OF ARCHITECTURE TRAINING AND RESEARCH E (COA-TRC), PUNE

In collaboration with

Pimpri Chinchwad Education Trust's

S. B. Patil College of Architecture and Design

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.

Key Takeway

- 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 Speakers

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

Ar. Jwalant Mahadevwala
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. Takbir 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.

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

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

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**

Last date: 30 Dec. 2025

Program Highlights

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 Architercture.

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***

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

Convened by:
Prof. Jayashree Deshpande,
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