

CATALAN VAULT WITH MUD POTS

HANDS-ON WORKSHOP

EMINENT SPEAKERS



Ar. Rahul Ravat
Gangotri Architects



Ar. Praveen Mali
Abha Arch



Ar. Pratik Dhanmer
Design Jatra



Ar. Vinita Kaur
Chiragia
Design Jatra



Ar. Suyash Khanolkar
Cicada



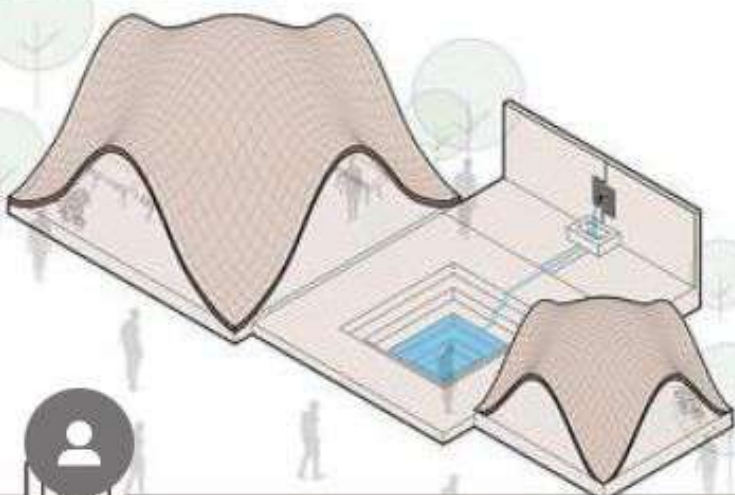
Ar. Santosh Ramane
Art N Space Studio



**Ar. Abhinandan
Magdum**
Studio Design India



Ar. Sumit Dewoolkar
Studio Dhara



SAVE THE SUITABLE DATE

Batch 1 : 30th Sept
Batch 2 : 1st Oct
Batch 3 : 2nd Oct

TIME : 8 AM to 1 PM

Registration Fees

For Students - 500 Rs
For Professionals - 700 Rs
Scan QR to Register

Note - Registration is Compulsory



VENUE

Art N Space Studio, Bondre nagar, Kolhapur.

Report on

“Catalan Vault Workshop”

Event Title:

Catalan Vault with Mud Pots - Hands-on Workshop

Organized by:

Art N Space Studio

Overview:

The *Catalan Vault with Mud Pots* workshop was a practical, hands-on training session aimed at architecture students and professionals, focusing on the innovative and sustainable construction technique of Catalan vaulting using mud pots. This technique is known for its lightweight structure, low cost, and minimal use of materials, making it an ideal solution for sustainable and eco-friendly construction. The workshop covered various aspects of Catalan vault construction, with specific emphasis on using locally available resources, such as mud pots, to form the vaulted structure.

Participants:

The workshop was attended by 25 *second-year architecture students* from *Smt. Kashibai Navale College of Architecture (SKNCOA)*, who participated under the guidance and mentorship of *Architect Santosh Ramane*, a well-known architect from Art N Space Studio.

Workshop Details:

- **Dates:** The workshop was conducted over three sessions with separate batches. The dates were as follows:
 - **Batch 1:** September 30, 2023
 - **Batch 2:** October 1, 2023
 - **Batch 3:** October 2, 2023
- **Timing:** Each session ran from 8:00 AM to 1:00 PM
- **Venue:** Art N Space Studio, Bondre Nagar, Kolhapur

Objective:

The primary objective of the workshop was to introduce students to the principles and techniques of Catalan vaulting, focusing on:

1. Understanding the structural properties and aesthetics of Catalan vaults.
2. Learning to use mud pots as a sustainable material in construction, leveraging local resources.
3. Developing hands-on experience in crafting and assembling the vault structure.

Workshop Outline:

Under the supervision of Architect Santosh Ramane, students engaged in a step-by-step process of constructing Catalan vaults. The workshop was structured as follows:

1. **Introduction to Catalan Vaults:**

- An overview of Catalan vaulting and its historical background.
- Discussion on the architectural advantages of using thin-tile vaulting and mud pots in contemporary sustainable architecture.
- Explanation of material properties and their impact on the strength and durability of the vault.

2. Design Principles and Structural Concepts:

- Presentation on the design aspects of Catalan vaults, including load distribution, structural stability, and aesthetic considerations.
- Hands-on training on creating arch forms using mud pots as the core building blocks.

3. Hands-on Construction:

- Students worked in small groups to assemble the vault structure using mud pots, learning techniques such as layering, interlocking, and mortar application.
- Each group constructed a small-scale vault, supervised by Architect Ramane and other eminent speakers.
- Focus on precise placement and alignment of mud pots to ensure stability.

4. Analysis and Feedback:

- Upon completing the vault construction, each group presented their work for review.
- Architect Ramane and other experts provided feedback on the students' work, discussing the pros and cons of each approach.
- Emphasis on learning from mistakes and refining techniques for future projects.

Speakers and Mentors:

Apart from Architect Santosh Ramane, the workshop featured several eminent architects who guided the students and shared their expertise:

- **Ar. Rahul Ravat** – Gangotri Architects
- **Ar. Praveen Mali** – Abha Arch
- **Ar. Pratik Dhanmer** – Design Jatra
- **Ar. Vinita Kaur Chiragia** – Design Jatra
- **Ar. Suyash Khanolkar** – Cicada
- **Ar. Abhinandan Magdum** – Studio Design India
- **Ar. Sumit Dewoolkar** – Studio Dhara

These experts provided valuable insights into sustainable building practices, material selection, and design aesthetics, enhancing the learning experience for the students.

Registration Details:

The workshop required prior registration, with fees structured as follows:

- **Students:** INR 500
- **Professionals:** INR 700

Outcomes:

The participating students from SKNCOA gained practical experience in sustainable construction techniques, learned the structural benefits of Catalan vaulting, and were able to apply theoretical concepts to real-world applications. The hands-on experience of working with mud pots and creating vaulted structures allowed them to:

1. Grasp the intricacies of sustainable design and material usage.
2. Develop skills in collaborative construction and problem-solving.
3. Understand the real-life applications of traditional techniques in modern architecture.

Photos:



Conclusion:

The *Catalan Vault with Mud Pots* workshop was a valuable learning opportunity for the SKNCOA students, allowing them to step beyond theoretical knowledge and immerse themselves in practical, hands-on building. With guidance from Architect Santosh Ramane and other professionals, the students not only learned an eco-friendly construction technique but also gained insights into sustainable architectural practices, which are increasingly important in today's context of environmental challenges. This workshop has provided them with a strong foundation in innovative, resource-efficient construction techniques, which they can apply in their future architectural projects.

Ar. Onkar kebudkar

Aso. Professor
Design Faculty

Dr. Shoban Kelkar

HoD

Dr Sudhir Chavan

Principal