

D. Y. Patil College of Engineering and Technology, Kasaba Bawada, Kolhapur
School of Architecture

Activity Report: Industry Interaction and Case Study Visit

Name of activity	Case Study Visit to "Savli" Residence, Karad – Application of Steel Structures in Residential Architecture
Course	Architectural Design with Steel
Year	T.Y. B. Arch.
Academic Year	2025-2026
Date	08/10/2025
Category	Ccurricular
Name of resource person/s	Ar. Pranil Mulik
Designation of resource person/s	Architect of the Banglow
Faculty coordinator/s	Er. Gouri Ajay Mhetar
No. of beneficiaries	Div. A – 8, Div. B – 15, Total 27
Class & Division	T.Y B. Arch. Div. A & B
CO mapped	CO.1., CO.2, CO.3
PO mapped	PO1, PO7, PO8, PO9, PO3, PO10
PO gap identified as per previous year	PO3, PO10
PSO mapped	PSO 2

Brief description of the activity: As part of the elective course **Architectural Design with Steel**, a case study visit was organized for Third Year Bachelor of Architecture students to the residence of **Dr. Virendra Patil ("Savli")**, Karad, designed by **Ar. Pranil Mulik**. The visit was conducted to provide students with practical exposure to the application of steel structures and detailing in contemporary residential architecture. The initiative was undertaken through direct interaction with the practicing architect and project stakeholders. Prior communication was established with the architect to seek permission for the educational visit and to explore the possibility of conducting an expert session on the application of steel structures in residential projects. During the visit, students observed how steel was integrated into the residential design to achieve structural efficiency, architectural expression, larger spans, flexibility in planning, and aesthetic appeal. The architect explained the design philosophy, structural concepts, material selection, construction methodology, and detailing techniques adopted in the project.

Students studied various aspects including:

- Structural framing systems using steel.
- Connection and joint detailing.
- Integration of steel with other building materials.

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- Architectural expression achieved through exposed steel elements.
- Construction challenges and execution strategies.
- Sustainability and durability considerations in steel construction. The interaction enabled students to understand the practical implementation of concepts taught in the Architectural Design with Steel course and strengthened their ability to evaluate steel as a contemporary building material for residential projects

Outcome of the activity:

1. Developed an understanding of the practical application of steel structures in residential architecture.
2. Gained firsthand exposure to steel framing systems and structural detailing.
3. Understood the relationship between architectural design intent and structural solutions.
4. Learned about steel connections, fabrication, and on-site assembly processes.
5. Studied the integration of steel with other construction materials.
6. Enhanced knowledge of innovative residential design using steel.
7. Improved analytical and observation skills through live case study documentation.
8. Bridged the gap between classroom learning and professional practice.
9. Developed awareness regarding contemporary construction technologies.
10. Encouraged students to explore steel as a sustainable and versatile material in future architectural design projects.



Case Study Visit to "Savli" Residence, Karad

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