

Sayali Andhare

Assistant Professor, Dr. B. N. College of Architecture

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Educational Qualification:

B. Arch- V.N.I.T Nagpur in 2005

M. Arch- Dr. B. N. College of Architecture in 2022

Professional Association:

Member of Council of Architecture

Member of Bamboo society of India

Teaching Experience:

Assistant Professor at Dr. B. N. College of Architecture

Associated with Dr. B.N. College of architecture from June 2010 till date.

Professional Experience:

- May 04 – Nov 04: Trainee Architect with Ar. Neelkanth Chhaya at Ahmedabad, Gujarat
- May 05 – July 08: Project Architect at indigo architects, Ahmedabad.
- Aug 08 – Oct 09: Senior Project Architect at Design Podia, Pune, Maharashtra
- Oct 09 – June 10: Senior project architect at Wonder grass, Nagpur, Maharashtra
- June 10 – Proprietor of the Shoonya practice, Pune - Present
- The architectural firm Shoonya is committed to using appropriate building construction methods and contextually rooted design solutions. The company's philosophy has grown around the idea of sustainability, and the structures serve as a vehicle to advance this idea. As part of this practice, many buildings were constructed using a variety of traditional earth construction methods, including wattle and daub, cob, and adobe.

Research Interest:

- Use of natural and alternate materials for construction
- Sustainable building solutions
- Cost-efficient, community-driven, and eco-friendly architecture
- Energy efficient architecture

Awards:

- Finalist for Solar Decathlon 21-22 (Topic-on site construction workers Housing)
- Finalist for PCERF 21-22 (Holistic Housing Solution for Onsite construction workers)

Research Projects

M. Arch Thesis-Experimental Research focusing on-

Designing and evaluating a holistic solution for onsite construction workers housing

The research's main objective was to design, construct, and test the prototype housing system as well as to evaluate the factors that affect the housing system in terms of building materials and indoor environmental comfort. The improvised prototype was built on site to take users feedback and record actual reading of temperature and humidity using data loggers. The current study is solely concerned with evaluating the performance of the constructed unit in Pune city or city with same climate. The goals along with measurable targets which I tried to achieve in this wholistic temporary housing system are **Energy efficiency, Water performance, Affordability, Innovation, Resilience, Architectural Design, Health and wellbeing, Architectural Operations, Scalability and Market Potential.**

Ongoing Research Projects:

Designing and evaluating a holistic solution for onsite construction workers housing:

- The ongoing research is focusing on improvising the paneling and roof system of Onsite construction workers housing to further reduce heat gain and achieve thermal comfort.
- The research also focuses on checking the thermal comfort in various climate zones.
- To make the solution more cost effective

Experiential learning-Learning by doing, Hands on workshops, a better way to learn:

Transferring Hands-On Learning from Classroom to Workplace

Teaching Activity:

B. Arch-Architectural Design, Working Drawing, Building Construction, Architectural Thesis

Diverse projects are chosen for instruction with the goal of achieving ecosystem balance through the use of green materials, appropriate use of materials, inclusive development, and the application of holistic approaches in the building industries to minimise the use of materials that consume a lot of energy.

Workshops organised:

Workshops are held to raise awareness about the use of natural building materials, such as soil and bamboo, for different scales of construction. The list of colleges where workshops are conducted.

- Bharti Vidyapeeth College Kharghar-Bamboo construction Workshop
- AIKTC College Panvel-Bamboo construction Workshop
- INDIRA college of Architecture, Pune- Bamboo construction Workshop
- Vishwakarma College of Architecture, Khopoli- Bamboo construction Workshop
- Dr. B.N. College of Architecture, Pune- Bamboo construction Workshop (Entrance design for Bamboo Festival 2020)
- For Bamboo Entusiast-Bamboo Weaving Workshop
- Brick School of architecture- Earth construction Workshop
- For Professional at Diveagar- Earth construction Workshop
- Dr. B.N. College of Architecture, Pune- Bamboo construction Workshop (Bamboo And Tensile Workshop)
- Dr. B.N. College of Architecture, Pune- Bamboo construction Workshop, under CAPABLE project

Recognition:

- November 2020, Speaker, TEDX platform.
[How I happened to Find Ancient Homes to Build a Future Living | Ar. Sayali Andhare | TEDxKothrud \(youtube.com\)](#)
- September 2020, Speaker, World Bamboo Day, Organised by Bamboo Society of India

Publication:

(Andhare & Dhamankar, 2022), Building Simulation and Optimisation 2022, Virtual International conference organised by University of BATH, UK, <https://publications.ibpsa.org/conference/?id=bs02022>

(Andhare & Agarwal, 2022), National Conference built environment and beyond, Theory and practice, organised by Dr. B. N. College of Architecture, October 2022. Conference Proceedings Peer Reviewed eBook ISBN: 978-81-955887-1-8

Research paper got selected for presentation in Energise 2023 conference-Yet to be published
