

Dr. Bhanuben Nanavati College of Architecture endowed with an excellent infrastructure motivating faculty and a great tradition of empowering women through education for the last 122 years under the MKSSS Trust. Department of Environmental Architecture and Planning encompasses the entire gamut of environment that we are a part of; both the built and unbuilt. The course aims at sensitizing the professionals to the environmental issues, global as well as site specific, focusing on the design approach, technology and economics to address them. The department is also well equipped with various software and state of the art facility along with a Industry-Academic platform for exchange of ideas and collaborations under the LEDS lab.

The M.Arch course in Environmental Architecture is a **2 years course** with emphasis in the first semester given to passive design followed by active design interventions in second semester and then looking at urban/regional scale environmental issues and scales in the third semester and a research emphasis laden thesis semester.

Intake: **20**

Recognition:
Council of Architecture - COA, New Delhi
Government of Maharashtra, Director of Technical Education Mumbai (DTE).
Affiliated to Savitribai Phule Pune University (SPPU).

GATE scholarship is applicable to eligible and qualified candidates

Faculty



Dr. Sujata Karve
Head, of Department, M.Arch (EA)



Ar. Namrata Dhamankar
Assistant Professor



Ar. Sonali Rajwade
Associate Professor



Dr. Anurag Kashyap
Principal, BNCA

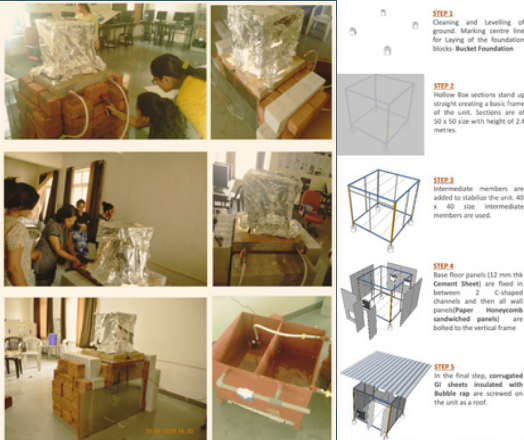


Ar. Rahul Nawle
Assistant Professor

www.bnca.ac.in

Explore and Experiment

LEDS is a state of art research and development lab facility set up at the Department of Environmental Architecture. This lab aims to facilitate strong Industry-Academic tie-ups. The lab facility is accessible to industry partners, research scholars and students. The lab assist's students and researcher in their on-field/off-field research related to Climate data monitoring, Post-occupancy evaluation studies and design based interventions. The lab is equipped high end instruments and software required for carrying out field based studies. These tools are used by students right from the early design stage to post-occupancy and retrofit project evaluation. The lab is also equipped with demonstrative models of various sustainable cooling technologies like radiant cooling, structure cooling and direct and indirect evaporative cooling system. These demonstrative live scale models are used as a teaching-learning aid for students of both graduation and post graduation.



Learning from Data

Masters in

Masters in Environmental Architecture



Masters in Environmental Architecture

Milestones

250+ students graduated

Emphasis on Environmental Design and Planning

1st of its kind course in India

State of the art equipped Environmental Design and Simulation laboratory

Research and Design Driven course outcomes

Joint studios and Collaborations with national and International organisations

Environmental Consultancy



Research and Government Organisation



Certification Bodies

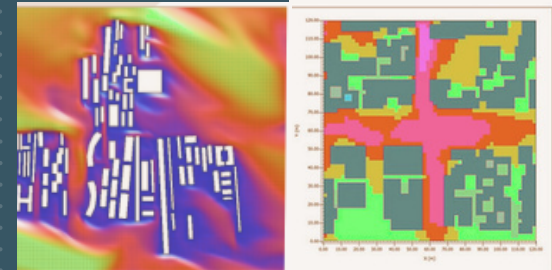


Design Firms



and many more.....

Placement and



Simulate and Evaluate



Typical architectural features of the street are use of chajjas resulting in strong horizontal lines, projecting vertical blocks on brackets, balconies with delicate latticed screens cut direct sun and glare of reflected sun in the street.

In the above thermal image, the northern facade of the street which is exposed top sun having more temperature up to 36 °C. Whereas the area under the balcony is shaded having less temperature up to 22 °C.



Masters in ENVIRONMENTAL ARCHITECTURE

Program Objectives

1. Knowledge and skills: gain practical knowledge in the field of environmental design and interpret this to achieve environmental sustainability
2. Research: To inculcate scientific research thinking and critical analysis in the environmental research domain
3. Ethics and Values: To provide students with the ability to integrate knowledge of environment enabling them to work for the larger benefit of society.
4. Theoretical Framework: To provide students with a technically sound base of theory and practical knowledge
5. Employability

Program Structure

Semester 1

First semester concentrates on understanding how buildings behave, the physics behind it and to design buildings based on passive design principles and thermal comfort. The students are also exposed to issues concerning sustainability at planning level.

Modules covered:

- Passive Design Studio I
- Building Physics
- Lighting Lab
- Natural Resource Management
- Environmental Laws and Legislation
- Elective – I

Semester 2

Second semester help students develop environmental sensitivity at a larger urban scale. They understand how natural resources are utilized and managed. and study various technologies and systems to achieve energy efficiency with a focus on HVAC etc. To learn a methodical approach towards study and analysis through research and writing.

Modules covered:

- Energy Design Studio II
- Building Performance Simulation Tools
- Research I
- Building Energy Management - I
- Elective -II
- Tools for Measuring Sustainability Building

Semester 3

Third semester concentrates on design of energy efficient buildings through a holistic understanding of systems for energy efficiency with a focus on renewable. and expose students to various tools to assess and measure sustainability.

Modules covered:

- Environmental Planning Studio III
- Sustainable Development and Planning
- Building Energy Management -II
- Professional Practice
- Advance Simulation and Technology Tools
- Research-II

Semester 4

Fourth semester lays emphasis on faculty assisted but self-initiated learning process in environmental architecture.

Modules covered:

- Environmental Architecture Project
- Multidisciplinary Elective

Collaborations and Partnerships



Various projects and initiatives have been undertaken by the department with governmental and private organisations to give students hands on practical experiences of working on projects and enhance academic industry tie ups

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MKSSS's BNCA Department of Environmental Architecture



https://linktr.ee/bnca_environmentalarch