

College of Architecture

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वास्तुविद्या सुसूत्रता

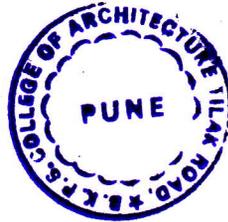
Date : 22/07/2023

ENVIRONMENTAL POLICY

On the forefront for sustainable practices the BKPS College of Architecture was first College in Pune University to install solar panel for electricity production. The Environmental policy of College is focused at following four objectives-

1. Awareness and sensitization of all user groups namely teachers, students, and support staff.
2. Integrating practices in course objectives for sustainable built environment
3. Implementing various environmentally friendly practices at college level
4. Social Outreach by engaging with Communities and NGO's.

To implement these policy objectives Eco club was formally formed in 2020 and various activities are planned and executed since then.



Abhijit Natu
Principal I/C,
BKPS College of Architecture,
Pune.

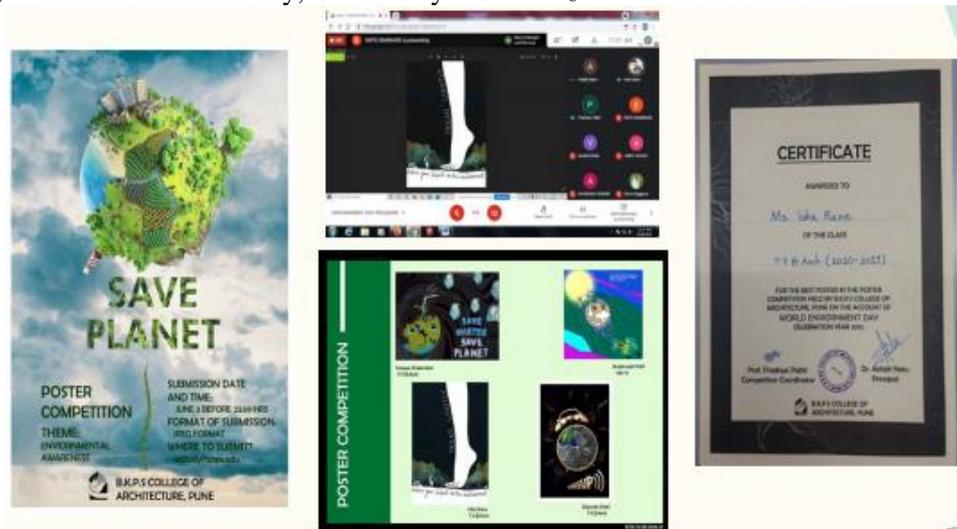
**Photo Voltaic System Installed on the Roof of the College building of the
BKPS College of Architecture, Pune.**



Green initiatives at BKPSCOA (Eco Club)

2019-20

Being in the lockdown due to the Pandemic students were learning in an online mode from 2020. A new subject was introduced in the second year syllabus as Environmental Sciences. We started discussing on topics such as change in lifestyle choices, waste management, 3Rs concept etc. during our studios. Few students were showing inclination of doing something apart from what was prescribed in the syllabus as a part of sessional submission. Self-motivation for a lifestyle change, creating awareness, determination to moving ahead with likeminded souls led to formulation of an Eco club with students where we shared our practices with each other. Few students who took initiative in the Eco club from second year were Pranjali Shinde, Ankit Avhad, Aadya Pedanekar. Khushal Jaju, Piyush Agrawal. Raksha Barhate took the lead to organise and compile events such as Earth day, World Environment day, Gandhi Jayanti and *Azadi Ka Amrit Mahotsav*.



Being in a lockdown condition with less resources available students were bound to reuse paper/sheets, cardboard, carton boxes to make models and drawings. Reusing Wool, fabric, paper, cardboard boxes for storing stationery, old CDS, paper, newspaper, bamboo etc. for decorations, doormat from old Saari, and curtains from Saari were few of the waste activities which were undertaken. Students grew organic vegetables in the balconies and terrace gardens using handmade planters from plastic bottles, tyres, bamboo, bulbs etc. Students visited exhibition of recyclable and up-cycled waste products used in interiors, and product design. Students participated consistently in seminars, workshop and competitions, research paper presentations at conferences where they expressed some or the other environmental approach in architecture.





Consistently for two years we have been doing model from metal scrap under Workshop subject. One of the assignments that we did together from reusing metal waste was metal sculpture of a traffic island. Students enjoyed the assignment and explored various metal objects to make innovative designs.



We hosted poster design Competition and celebrating Eco friendly Ganpati and Diwali festival for Students. Here the students celebrated using natural materials with handmade *Shadu* clay Ganpati idols and Diwali paper lanterns.



Students showed lot of enthusiasm in our first offline activity of Plastic collection under the Pune Zonal NASA led by Pranjali Shinde. The students collected and donated plastic bags waste to an organisation Rechalkha in Karvenagar which upcycles plastic bags into useful products. With this first plastic collection drive now we at COA also have a monthly plastic waste collection drive supported by Rudra Environmental Solutions which converts plastic into polyfuel. All the staff and students can contribute to this cause.



- Plastic collection drive for NASA(Nation Association of Students of Architecture) week
- BKPS college of Architecture donated the collected plastic to the RECHARKHA organisation.
- RECHARKHA upcycles the plastic into various products and sells it.

**ECO CLUB
AWARENESS
STRATEGIES.- whatsapp**

**BKPS COA HAS TIED UP
WITH RUDRA
ENVIRONMENTAL PLASTIC**

Green oath was taken by all staff and students under “Majhi Vasundhara” by Government of Maharashtra. Students did tree plantation and also adopted potted plants. Signages are displayed in toilets, classrooms and computer labs to shut off computers, lights, water taps when not needed. Display of environmental awareness board such as – save water, save electricity, switch off light and fan after use were displayed in college premises.

GREEN OATH WAS TAKEN BY ALL STAFF AND STUDENTS UNDER “MAJHI VASUNDHARA” BY GOVERNMENT OF MAHARASHTRA



save water, save electricity, no smoking, switch off light and fan after use are displayed in college premises.



OATH CERTIFICATES OF STUDENTS

ALWAYS TURN OFF LIGHTS WHEN NOT NEEDED.

Always Turn off When not Needed

आवश्यक नसेल तेव्हा फ लाईट बंद करावे.

SWITCH OFF LIGHTS WHEN LEAVING THE ROOM. SAVE ELECTRICITY.

TO SAVE ELECTRICITY

Reduce Reuse Recycle

Raksha Barhate along with Isha Chiplunkar also represented our college to showcase these green initiatives of last two years from 2020 taken up by the Students.



Being in the pandemic there were lots of limitations as a group to work. But being connected by the social media apps like What'sapp, Facebook Srujan page and Google meets helped a lot. Few activities which are planned for next year are E waste management, classroom waste management, plastic collection by students, use of alternative plastic free stationary etc.

various tree plantation programs are being organized at college campus and surrounding. the plantation program includes various types of indigenous species of ornamental and medicinal wild plant species.

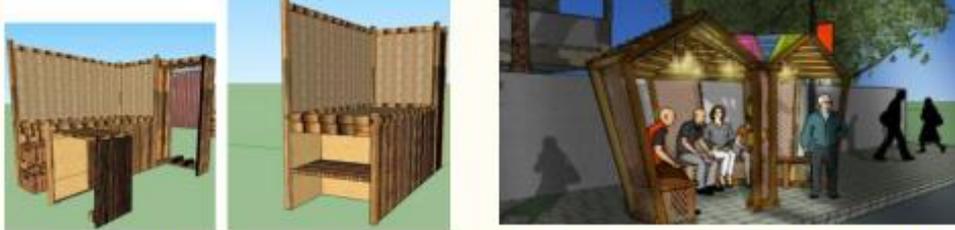


TREE PLANTATION PROGRAMME AT TALJAI TEKADI

Composting

Promoting organic vegetable growth and

students participated consistently in celebrating world bamboo day by participating in seminars, workshop and competitions.



FURNITURE DESIGN COMPETITION SPACE DESIGN COMPETITION ENTRY



WINNING CERTIFICATES

2020-21

Following are the listed activities and initiatives taken-

Waste disposal

Existing waste management methods practiced

- Cleaning the campus on daily basis is done
- Segregation of waste into degradable and non-degradable by the cleaning staff is practiced
- Waste bin's in placed in corridors, office and staff rooms.
- Single sided used papers reused for writing and printing in office and both side printing is carried out as per requirements.
- OFFICE-Paper waste generated are recycled and reused
- CLASSROOMS-Paper Wastes are collected in the waste basket and recycled.
- E-waste and plastic waste disposal at municipal collection centre. The solid waste is collected by the municipal corporation and disposed by their methods.
- Use of reusable resources and containers and avoid unnecessary packaging where possible is practiced
- Use and throw cutlery is not used, paper plates and cups are avoided for all functions in the college

- Water filter to refill personal bottles for drinking water is used instead of use and throw plastic bottles from shops
- Minimization of solid waste is encouraged
- Metal scrap model, diwali lanterns from reusable material were conducted under workshop subject
- Reuse of sheets, model making material, using used boxes for making process models
- Going paperless wherever possible



Energy Consumption

Current saving methods adopted in the college.

- Computers are set to automatic power saving mode when not in use.
- Electrical equipments are turned off when not in use.
- Unnecessary lights and fans are switched off when not required. Lights, fans are shut down from classroom and lab after occupancy time. During daylight, lights are switched off and natural lighting is preferred.
- Maintenance of appliances and replacement of old appliances is done.
- Cleaning of tube-lights/bulbs is done periodically, to remove dust over it.

- Energy efficient LED lamps are used instead of incandescent and CFL and the old tube lights are replaced with the new LED tubes

Using renewable energy

Photovoltaic cells are also installed in the building terrace as an alternate renewable source of energy. The Solar power generated is supplied to Maharashtra State Electrical Board.

THE FIGURES ON THE MSEB BILL INDICATING THE ZERO POWER CONSUMPTION OF OUR COLLEGE.

SOLAR PANELS ON THE TERRACE

BKPS installs two solar power panels

RENEWABLE ENERGY

Environmental Education and awareness

- Display of environmental awareness board such as – Save water, save electricity, no smoking, switch off light and fan after use are displayed in college premises
- Various slogans and pictures, posters are done by students to protect environment and displayed
- Environmental or Eco club is established within students and they conduct activities and programs
- Energy saving campaigns and green awareness campaigns are conducted. Campaigns for reduce, reuse and recycle by Eco club.
- Competitions are conducted among students for making students
- Promote environmental awareness as a part of course work in various curricular areas, independent research projects, and community service. Create awareness of environmental sustainability and take actions to ensure environmental sustainability
- Celebrate every year 5th June as ‘Environment Day’ and plant trees on this day to make the campus more Green. Not just celebrating environment day but making it a daily habit
- UGC Environmental Science course to all students
- Students did one report on one green lifestyle change



metal scrap model, from reusable material were conducted under workshop subject of curriculum.

Water

- Taps if leaking were checked and mended
- Water conservation signage are posted in washrooms
- Clean drinking facility is provided on two floors
- Water for washing and cleaning of floor s consciously used

Environmental quality

- Mosquito repellents and spraying is done



**AIR PURIFYING
PLANTS KEPT IN
CLASSROOMS**



**USE OF BHIMSENI KAPOOR AS
ORGANIC MOSQUITO
REPELLENT**



Health

- Sanitizers are placed at the entry points, office staff room and lobby.

- Hand wash is provided in toilets

Carbon accounting

- Carpooling whenever possible is adopted by faculty
- Students are allotted stay facilities closer to college at a walk able distance
- Canteens and other stationary facility are available at walkable distance
- Site visits are conducted in a group using public transport or by hiring a bus.

Biodiversity

- Various tree plantation programs are being organized at college campus and surrounding. The plantation program includes various types of indigenous species of ornamental and medicinal wild plant species.
- Potted plants are kept at both verandah and class rooms.
- Indoor air purifying plants in staffroom and office to inculcate interest in students
- Big native Plants present in building premises

Students visit exhibition of recyclable and up cycled waste products used in interiors, and product design



Individual or group activities by staff and students

- Green Oath was taken by all staff and students under Majhi Vasundhra by government
- involvement of staff in green measures as vermicomposting, waste segregation and recycling of plastic, donation of clothes, motivating students and creating awareness
- In administrative work and also in students work alternative to plastic stationary-(steel rulers, paper tapes, punching machine etc) is promoted.

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- alternatives to plastic stationary-steel rulers, paper tapes, punching machine etc



BIOENZYME PREPARED BY STAFF FOR CLEANING PURPOSES WHICH REPLACES LIZOL, COLLIN, TOILET CLEANER ETC

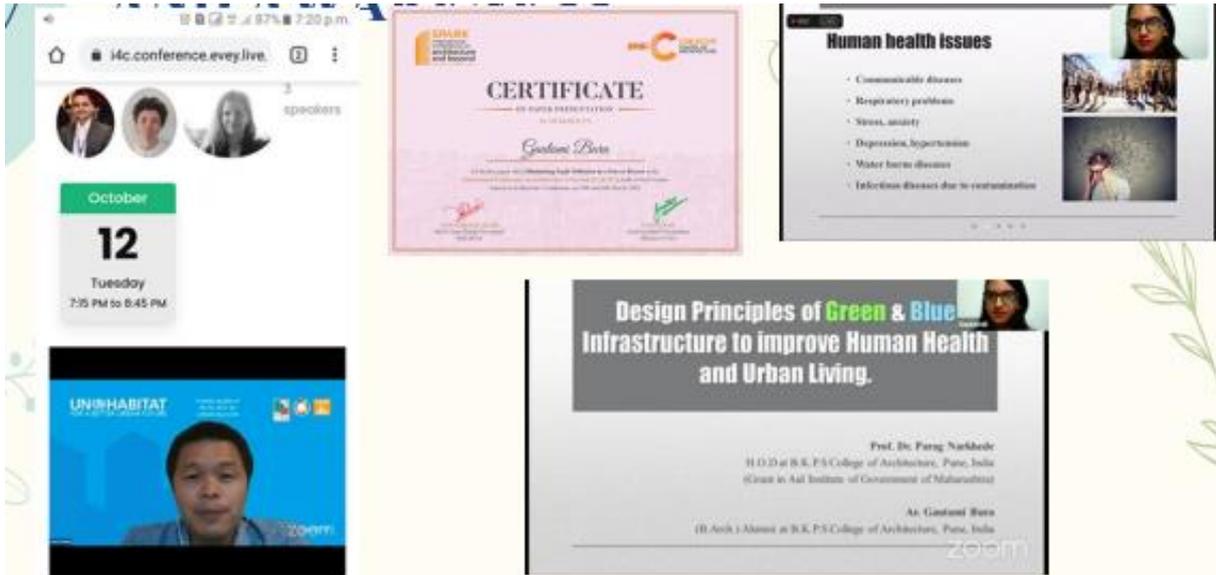


SITE VISIT TO PARVATI WATER PURIFICATION PLANT SINHGAD ROAD

ENVIRONMENTAL EDUCATION AND AWARENESS

- environmental or eco club is established within students and they conduct activities and programs
- energy saving campaigns and green awareness campaigns are conducted.
- eco club campaigns for reduce, reuse and recycle.





Students participated in national and international conferences and presented their papers on the topics related to environment and sustainable

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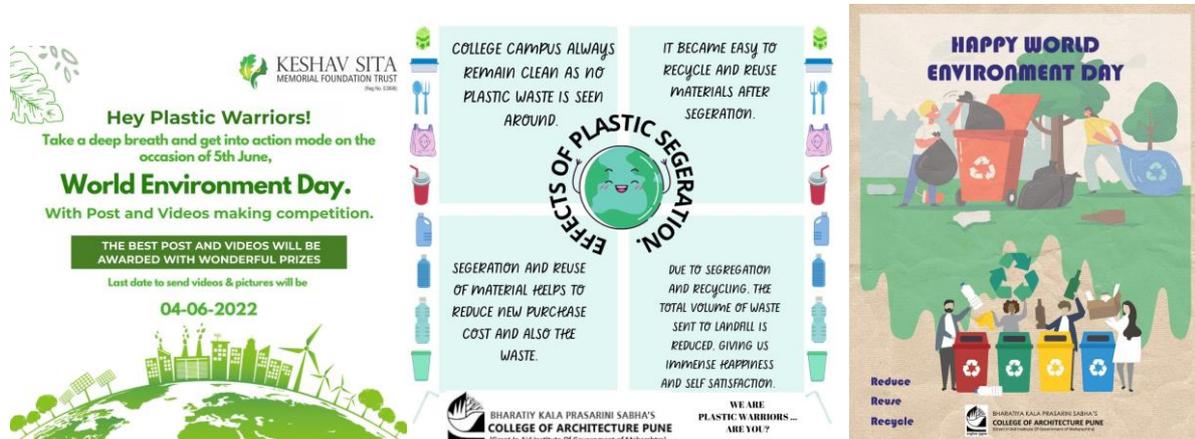
PLANT ADOPTION BY STUDENT

2021-22

Eco Club coornation is undertaken by fourth year student Raksha Barhate for last two years and now it would be undertaken by Second year student Vidhi Dhanwalkar. College recieved appreciation from Rudra Environmental Solutions for donating plastic and E waste for last one year. The college was involved in segregating and donating plastic to them. Students and staff took active participation in it.



Isha Chiplunkar and Raksha Barhate represented BKPSCOA in a competition organised by where they explained all the green initiatives of past one year. On the occasion of World Environment Day the second year students participated in the activity conducted by Rudra Environmental Solutions where they compiled a vedio and designed a poster stating green activities in BKPS.





Adopt a plant initiative was done by First year students.

Every year in Workshop I subject the students make Metal sculptures from metal wastes. This was guided by Ar. Anita Kavathekar.

There were personal level efforts by Vidhi as she took pledge towards green habits. Clothes and toys donations were undertaken by faculty during diwali.



The fourth-year students came up with idea of hosting a competition on *Shadu* clay Ganesh Idol making. They coordinated with the organisation and wrapping it up with properly cleaning up after the activity was completed. Enthusiastic response was observed for this activity where creative options came up.



Under *Swach Bharat Abhiyaan* and activity under NASA BKPSCOA students did wall paintings on various themes related to environmental awareness.



Participants of the clay modelling competition



Winning entries of *Shadu Clay idol* competition



Eco Club, Prize distribution of *Shadu Clay idol* competition

Students participated in competitions, went to site visits which were not directly a part of ECO club but were related to environmental or social domain. Following are few of them mentioned below-



Fourth year students Raksha, Khushal and Ruturaj won prize in Poster design competition organised by SCOE Civil department.



Students participated and won prize in installation competition organized by SPPU competition installation from waste newspaper, bottles, fabric etc.



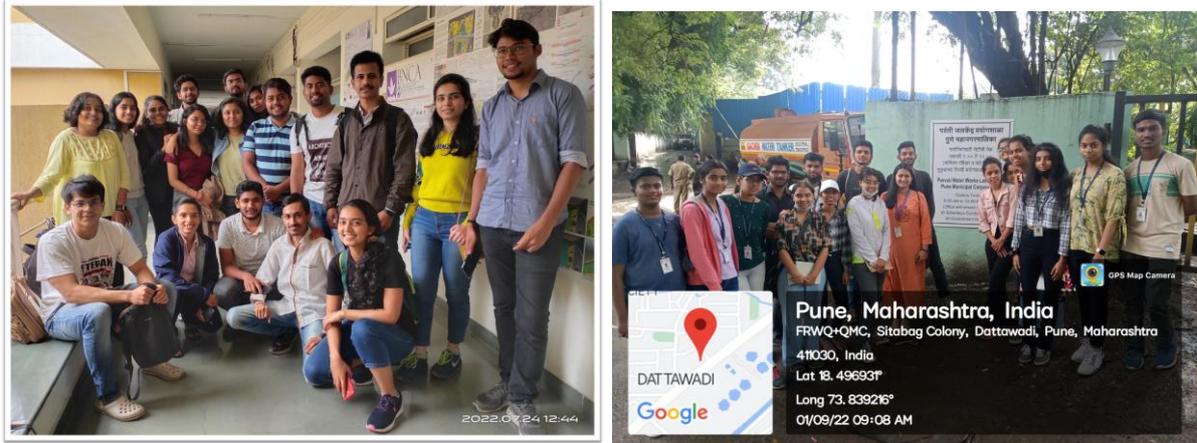
Khushal Jaju participated in Clay modelling competition organised by SPPU.



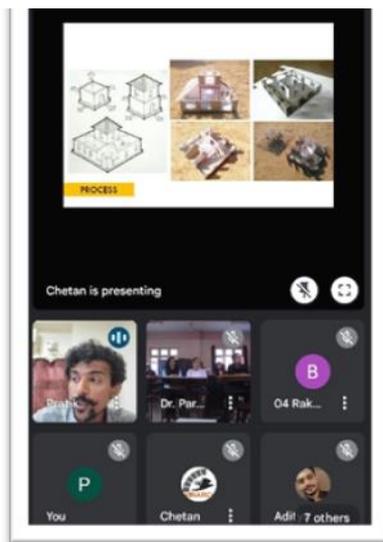
Fourth year- Under Green Buildings Elective III a Site visit to green rated building Joyville Hinjewadi Phase 1 was planned in collaboration with Sustainability Initiatives, VK:e. students explored water management techniques on site.

Fourth year- students attended a lecture on Improving Liveability of small house organised by BNCA.

Second year visited water purification plant at Sinhgad Road. Students understood the step by step process of water purification by visiting various areas of treatment plant such as pumping chamber, tube settler, filler bed, chlorine contact tank, etc.



Webinar was organised by Design Faculty of second year Dr. AS Natu and Dr. PG Narkhede on the topic of Rural architecture. Second year students visited Jagtap Nursery's Garden centre, under Architectural Design subject under the guidance of Design teachers. Students observed the zoning, circulation of spaces in a plant nursery. For the next design project they visited Pashan lake nature education centre to understand



Bhartiya Kala Prasarni Sabha's College of Architecture, Pune Presents a webinar on 'Rural Architecture'

Dr. Roopal Deshpande

Topic: Warmth of the House Matters - A Perspective to Rural Architecture

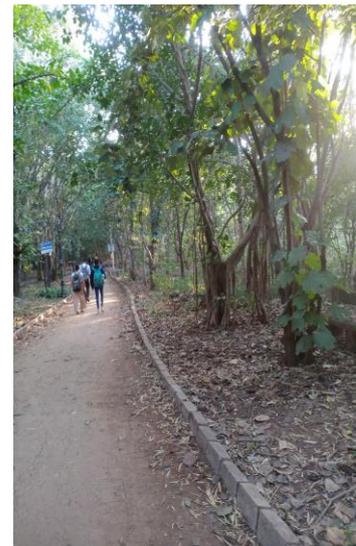
The lecture will focus on the tools and sensibility a designer should possess while working on rural architecture. The way knowledge of subjects like climatology, vernacular architecture, appropriate technology, etc. may find its application to the topic. Means to use techniques like mind mapping, memory mapping, transect, resource mapping to fine tune the understanding of village setups. A part of the lecture will also focus on the peculiarities of Indian Villages.

Ar. Pratik Dhanmer

Topic: Socio-geographic Factors & Design of Rural Architecture

Socio-geographic factors such as culture, resources, and climate essentially shape Rural Architecture in the most contextual way and makes it very appropriate to the local needs. It also makes it energy efficient and contributes to make resources sustainable for longer. Understanding and including these aspects is important by any architect while working on such projects. Ar. Pratik Dhanmer is presenting his thoughts along with apt examples.

Date: Thursday, 13th August 2022
Time: 3:00 AM
Link: <https://meet.google.com/amq-anbk-piz>



Few first year students under BCM I subject volunteered at a site where they learnt to handle mud and process of moulding bricks guided by BKPS COA Alumni Ar. Amruta Naidu. Ar. Amruta Naidu from Urvee Public trust also undertook workshop on brick bonds and arch making. Few fourth-year students volunteered at Gaav Brhaman initiative by her.

