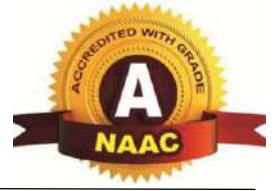




**MVPS's SP College of Architecture**

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Phone: 0253-2570822 e-Mail: [cansnashik@mvp.edu.in](mailto:cansnashik@mvp.edu.in)



# **Criterion 6 – Governance, Leadership and Management**

## **6.5 Internal Quality Assurance System**

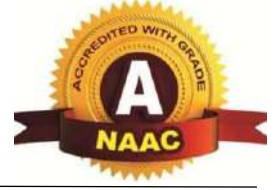
### **6.5.2**



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### Criterion 6 – Governance, Leadership and Management

#### 6.5 – Internal Quality Assurance System

**6.5.2** *The institution reviews its teaching learning process, structures & methodologies of operations, and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities*

Sr. No.	Contents (Documents)
A	Academic Monitoring Committee Meetings
B	Course Outcomes and Program Outcomes
C	Implementation Program Outcomes (PO1 & PO3)



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## **6.5.2**

**The institution reviews its teaching-learning process, structures & methodologies of operations, and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities**

**A) Academic Monitoring Committee Meetings**



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### NOTICE

Ref/AMC /B.Arch. / 28

Dated - 17/06/23

All the subject Coordinators are hereby informed to remain present for meeting on 19th June 2023 at 9.00 am for AY 2022-23.

The agenda for the meeting is to discuss the final review of the subject coordinator, the observations and suggestion of the Subject coordinator. Please come prepared with the hardcopy of the same for the meeting.

Prof . Geetanjali Patil  
( Chairman AMC )

Prof Arpita Bhatt  
IQAC Coordinator

Dr. Prajakta Baste  
Principal



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### List of Subject Coordinators – B.Arch 2022-23

	Name of Subject Coordinator	Subjects Allotted
1.	Dr. Prajakta Baste	AD,AP,FOA,BD,USI & US II
2	Prof. Vijay Pawar	BCM I - VI,ABCS I & ABCS II
3	Prof. Umesh Hirawe	AGD I, AGD II,Workshop I,Workshop II,CADG,WD I & WD II
4	Prof Megha Butte	BS I_IV, ES , Climatology
5	Prof.Purva Shah	Elective II-VI ,LA, CS
6	Prof Suruchi Ranadive	HA I- IV, Elective I (Contemporary Arch),RIA
7	Prof. Abhishek Nasikkar	PP,PM,TOS,SSA
8	Prof Gaurav Arbooj	PT,QSE & SW



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*[Signature]*  
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Sharadchandraji Pawar College Of Architecture, Nashik



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	Name of Subject Coordinator	Signature
1.	Dr. Prajakta Baste	
2	Prof. Vijay Pawar	
3	Prof. Umesh Hirawe	
4	Prof Megha Butte	
5	Prof.Purva Shah	
6	Prof Suruchi Ranadive	
7	Prof. Abhishek Nasikkar	
8	Prof Gaurav Arbooj	



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### NOTICE

Ref/AMC /B.Arch. / 28

Dated - 20/06/23

All the subject teachers are hereby informed to prepare the teaching schedules including the teaching methodology ,guest lectures, site visits, workshop,seminars, juries etc along with assignments latest by 7th July 2023 and discuss with the Subject Coordinator to finalize the same for the forthcoming AY 2023-24.

The subject teachers are requested to take the cognizance of the Sem I COPOs for AY 2022-23, to refine the outcomes for the same.

Prof . Geetanjali Patil  
( Chairman AMC )

Prof Arpita Bhatt  
IQAC Coordinator

Dr. Prajakta Baste  
Principal



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### List of Faculty – B.Arch 2022-23

Sr No.	NAME	Sign
	Dr. Prajakta Shailesh Baste	
<b>Div A</b>		
1	Ar. Arpita Amitabh Bhatt	
2	Ar. Suruchi Ashish Randive	
3	Ar Umesh Raghunath Hirve	
4	Ar.Abhishek Prabhakar Nasikakar	
5	Ar Ketki Chandrakant Joshi	
6	Ar.Sharmishtha Surajiwale	
7	Ar. Niketa Nikhil Kothavale	
8	Ar. Manisha Parshuram Rajole	
9	Ar. Vineet Bobade	
10	Ar. Radhika Bhattad	
11	Ar. Sayali Gogte	
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13	Er. Anil Uttamrao Thomare	
14	Ar .Sankalp Gorakh Bagul	
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1	Ar. Vijaykumar Balasaheb Pawar	
2	Ar. Ashish Ramdas Khemnar	
3	Ar.Geetanjali Shrikant Patil	
4	Ar. Megha Hemant Butte	
5	Ar.Purva Harish Shah	
6	Ar. Hemant BalkrishnaThakare	
7	Ar. Ankita Anant Nikam	
8	Ar. Nitesh Patil	
9	Ar. Sheetal Vasant Choughule	
10	Ar . Marode Tejaswini	
11	Ar . Waje Sachin	
12	Ar. Isha Rane	
13	Ar. Ashiwini Bhusare	
14	Ar. Levant Gavande	
15	Shri.Vijay Bhusaheb Dhikale	







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### NOTICE

Ref/AMC /B.Arch. / 01

Dated - 06/07/23

All the subject Coordinators are hereby informed to remain present for the meeting on 8/7/23 at 11.30 am .As decision taken in the general meeting,the agenda for discussion is to decide the theme for Academic Year 2023-24 for all the classes . This theme will address the core issue which can be implemented in our academic schedules throughout this semester.

Prof . Geetanjali Patil  
(Chairman AMC)

Prof Arpita Bhatt  
IQAC Coordinator

Dr. Prajakta Baste  
Principal



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3	Prof. Umesh Hirawe	AGD I, AGD II,Workshop I,Workshop II,CADG,WD I & WD II
4	Prof Megha Butte	BS I_IV, ES , Climatology
5	Prof.Purva Shah	Elective II-VI ,LA, CS
6	Prof Suruchi Ranadive	HA I- IV, Elective I (Contemporary Arch),RIA
7	Prof. Abhishek Nasikkar	PP,PM,TOS,SSA
8	Prof Gaurav Arbooj	PT,QSE & SW



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	Name of Subject Coordinator	Signature
1.	Dr. Prajakta Baste	
2.	Prof. Vijay Pawar	
3.	Prof. Umesh Hirawe	
4.	Prof Megha Butte	
5.	Prof. Purva Shah	
6.	Prof Suruchi Ranadive	
7.	Prof. Abhishek Nasikkar	
8.	Prof Gaurav Arbooj	



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Ref/AMC /B.Arch. / 3

Dated - 02/09/23

All the teachers are hereby informed to conduct the Mentor- Mentee Meeting 1 of this Semester between 04/09/23 to 09/09/23 as per your convenience .

The important highlight along with the other issues of discussion should be on the exam results and performance of the mentee of the previous semester. Please ask the mentee to produce the result of the previous semester for the discussion. The mentee should be made aware of the fallouts if found defaulter in performance or attendance. Any other grievance if they have one.

Prof. Geetanjali Patil  
(Chairman AMC )

Prof. Arpita Bhatt  
(IQAC Coordinator)

Dr. Prajakta Baste  
(Principal)





## MVPS's Sharadchandraji Pawar College of Architecture

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Phone : 0253-2570822. Email : cansnashik@mvp.edu.in



### List of Faculty – B.Arch 2023-24

Sr No.	NAME	Sign
	Dr. Prajakta Shailesh Baste	
Div A		
1	Ar. Arpita Amitabh Bhatt	
2	Ar. Suruchi Ashish Randive	
3	Ar Umesh Raghunath Hirve	
4	Ar.Abhishek Prabhakar Nasikakar	
5	Ar Ketki Chandrakant Joshi	
6	Ar.Sharmishtha Surajiwale	
7	Ar. Niketa Nikhil Kothavale	
8	Ar. Manisha Parshuram Rajole	
9	Ar. Vineet Bobade	
10	Ar. Radhika Bhattad	
11	Ar. Sayali Gogte	
12	Ar. Gaurav Dilip Arbooj	
13	Er. Anil Uttamrao Thombare	
14	Mr .Sankalp Gorakh Bagul	
15	Ar. Shreya Khare	

Div B		
1	Ar. Vijaykumar Balasaheb Pawar	
2	Ar. Ashish Ramdas Khemnar	
3	Ar.Geetanjali Shrikant Patil	
4	Ar. Megha Hemant Butte	
5	Ar. Hemant BalkrishnaThakare	
6	Ar.Purva Harish Shah	
7	Ar. Ankita Anant Nikam	
8	Ar. Nitesh Patil	
9	Ar. Sheetal Vasant Choughule	
10	Ar . Marode Tejaswini	
11	Ar . Waje Sachin	
12	Ar. Samrudhi Mahale	
13	Er. Ashiwini Bhusare	
14	Mr. Levant Gavande	
15	Shri.Vijay Bhusaheb Dhikale	



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### Minutes of Meeting

AMC Meeting dated 02/09/2023 (Ref/AMC/B.Arch./03)

Meeting Agenda: Mentor-Mentor Mentee Meeting

All the Teachers were instructed to conduct the First Mentor-Mentee Meeting with the following issues Highlighted –

- 1) Exam Results (Students were asked to bring the copy of their Exam Results).
- 2) Previous Academic Performance of the Mentee.
- 3) Defaulting Subjects so far.
- 4) Attendance Issues if any.
- 5) Any other Grievances by any Mentee.

Prof Arpita Bhatt  
(IQAC Coordinator)

Dr. Prajakta Baste  
(Principal)



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Udhaji Maratha Boarding Campus Gangapur Road, Nashik



Ref/AMC /B.Arch. /4

Dated -12/09/23

All the class coordinators are hereby informed to prepare the list of defaulting students and the mid term review by 15th September 2023. The parents meeting is planned in the following week for the same.

Prof . Geetanjali Patil  
( Chairman AMC )

Prof Arpita Bhatt  
IQAC Coordinator

Dr. Prajakta Baste  
Principal





### List of Faculty – B.Arch 2023-24

Sr No.	NAME	Sign
	Dr. Prajakta Shailesh Baste	
<b>Div A</b>		
1	Ar. Arpita Amitabh Bhatt	Absent
2	Ar. Suruchi Ashish Randive	
3	Ar Umesh Raghunath Hirve	
4	Ar.Abhishek Prabhakar Nasikakar	
5	Ar Ketki Chandrakant Joshi	Absent
6	Ar.Sharmishtha Surajiwale	
7	Ar. Niketa Nikhil Kothavale	
8	Ar. Manisha Parshuram Rajole	
9	Ar. Vineet Bobade	
10	Ar. Radhika Bhattad	
11	Ar. Sayali Gogte	
12	Ar. Gaurav Dilip Arbooj	
13	Er. Anil Uttamrao Thombare	
14	Mr .Sankalp Gorakh Bagul	
15	Ar. Shreya Khare	
<b>Div B</b>		
1	Ar. Vijaykumar Balasaheb Pawar	
2	Ar. Ashish Ramdas Khemnar	
3	Ar.Geetanjali Shrikant Patil	
4	Ar. Megha Hemant Butte	
5	Ar. Hemant BalkrishnaThakare	
6	Ar.Purva Harish Shah	
7	Ar. Ankita Anant Nikam	
8	Ar. Nitesh Patil	
9	Ar. Sheetal Vasant Choughule	
10	Ar . Marode Tejaswini	
11	Ar . Waje Sachin	
12	Ar. Samrudhi Mahale	
13	Er. Ashiwini Bhusare	Absent
14	Mr. Levant Gavande	
15	Shri.Vijay Bhausahab Dhikale	



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**Minutes of Meeting**

AMC Meeting dated 12/09/2023 (Ref/AMC/B.Arch./04)

Meeting Agenda: List of Defaulting Students

- 1) Mid-Term Academic Review was given by the Class Coordinators.
- 2) All the class coordinators discussed the names of the defaulting students of their respective classes.
- 3) A copy of defaulters list was submitted to Principal Madam.
- 4) Principal madam instructed Ishwari Sawant (Office Clerk) to send messages to the parents of the respective defaulting students.
- 5) Parent-Teacher meeting to be held next month was discussed.
- 6) It is decided and instructed that the attendance record of the Parent-Teacher Meeting is to be maintained by the Class coordinators.

Prof Arpita Bhatt  
(IQAC Coordinator)

Dr. Prajakta Baste  
(Principal)





**Maratha Vidya Prasarak Samaj's  
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Udhaji Maratha Boarding Campus Gangapur Road, Nashik



Ref/AMC /B.Arch. /5

Dated - 01/11/23

All the teachers are hereby informed to remain present for the Academic Monitoring Committee meeting scheduled on 4/11/23 at 9.30am.

The agenda for the meeting is .

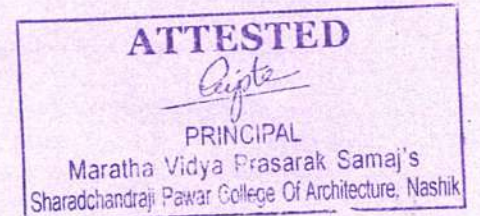
1. Review of the Remedial Class Conduction for the Sem I of AY- 2023-24.
2. Establishment of the internal marks ie CIE of the respective subject, to be presented by the teachers.

The teachers are requested to submit the hard copy of the CIE in the meeting .

Prof . Geetanjali Patil  
(Chairman AMC)

Prof Arpita Bhatt  
IQAC Coordinator

Dr. Prajakta Baste  
Principal





### List of Faculty – B.Arch 2023-24

Sr No.	NAME	Sign
	Dr. Prajakta Shailesh Baste	
<b>Div A</b>		
1	Ar. Arpita Amitabh Bhatt	Absent
2	Ar. Suruchi Ashish Randive	
3	Ar Umesh Raghunath Hirve	
4	Ar.Abhishek Prabhakar Nasikakar	
5	Ar Ketki Chandrakant Joshi	Absent
6	Ar.Sharmishtha Surajiwale	
7	Ar. Niketa Nikhil Kothavale	
8	Ar. Manisha Parshuram Rajole	
9	Ar. Vineet Bobade	
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11	Ar. Sayali Gogte	
12	Ar. Gaurav Dilip Arbooj	
13	Er. Anil Uttamrao Thombare	
14	Mr .Sankalp Gorakh Bagul	
15	Ar. Shreya Khare	
<b>Div B</b>		
1	Ar. Vijaykumar Balasaheb Pawar	
2	Ar. Ashish Ramdas Khemnar	
3	Ar.Geetanjali Shrikant Patil	
4	Ar. Megha Hemant Butte	
5	Ar. Hemant BalkrishnaThakare	
6	Ar.Purva Harish Shah	
7	Ar. Ankita Anant Nikam	
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10	Ar . Marode Tejaswini	
11	Ar . Waje Sachin	
12	Ar. Samrudhi Mahale	
13	Er. Ashiwini Bhusare	Absent
14	Mr. Levant Gavande	
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**Minutes of Meeting**

AMC Meeting dated 01/11/2023 (Ref/AMC/B.Arch./05)

Meeting Agenda: Remedial Classes

Review of the Remedial Classes & CIE implementation was taken from the Teaching Faculty.

The following issues were discussed &/or finalized –

1. Remedial Classes did not receive positive response from the students.
2. CIE for Remedial Class Policy was endorsed and hence instructions for the markings of the backlog students to be established were given to the Teachers.
3. Response for the Parent-Teacher Meetings (conducted on 6<sup>th</sup> & 7<sup>th</sup> Oct 2023) for the Mid-Term Defaulting Students did not receive a fair response.
4. Students being the central Stakeholder, the plausible change in College Timings was discussed.

Prof Arpita Bhatt  
(IQAC Coordinator)

Dr. Prajakta Baste  
(Principal)





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Ref/AMC /B.Arch. /7

Dated - 29/11/23

### Notice for Students

All the first Year students are hereby informed to attend the Mentor Mentee Meeting 1 of this Semester which is held between 30/11/23 to 2/12/23. It is mandatory to attend this meeting. contact your Mentors for further details.

The Mentor Allotment list will be displayed on the Notice board from 29/11/23.

Prof . Geetanjali Patil  
(Chairman AMC)

Prof Arpita Bhatt  
IQAC Coordinator

Dr. Prajakta Baste  
Principal





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Ref/AMC /B.Arch. /7

Dated - 29/11/23

## MENTOR- MENTEE System

Mentors act as the guide, advisor and support structure to bring out the best in student by learning about their strengths and weakness

### Benefits of a Mentoring System:

- Enhances the students' confidence and challenges them by setting higher goals, taking risks and ultimately guiding them to achieve higher levels.
- Individual recognition and encouragement.
- Routine advice on balancing academic and professional responsibilities.
- Students get access to a support system (Mentors) during the crucial stages of their academic, professional and intellectual development.
- Students get an exposure to diverse perspectives, and experiences in various fields.
- The mentors lay the foundation for the students to reach greater heights in their professional lives- Thereby contributing to lasting personal and professional relationships.





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Ref/AMC /B.Arch. /7

Dated - 29/11/23

## Role of Mentor

1. To support and encourage student's overall academic development.
2. To solve difficulties encountered by the students at the academic level.
3. To help students understand their strengths, and work on their areas of weaknesses.
3. To advice about various avenues for future growth in profession.
4. The students can meet and consult their mentors during college hours.

## Role of Mentee

1. Take advantage of the opportunities presented by their mentors.
2. Be open and responsive to feedback, criticism, and coaching.
3. Contact the Mentor whenever required and honor the time given by their mentors.
4. Maintain integrity and confidentiality at all times.
5. Exhibit a willingness and desire to work hard.





NOTICE

Ref/AMC/B.Arch/

Dated: 30/12/2023

All subject coordinators are requested to conduct meetings with subject teachers (Individual subject and year desirable) from Monday 01/01/2024 to Friday 05/01/2024 to guide for following things :-

1. Syllabus content/ topics
2. Assignments/ Reports/ Journal writing
3. Sheets – Content and
4. Site visits to be included in teaching schedule – when for what/ outcomes of it
5. Hands on Workshop if any (topic wise)
6. Pedagogy ( Identification of Assignments)
7. Teaching plans – submission

Dr. Prajakta Baste  
Principal

Prof. Arpita Bhatt  
IQAC Co-ordinator

Prof. Geetanjali Patil  
Chairman AMC



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Sharadchandraji Pawar College Of Architecture, Nashik





### List of Faculty – B.Arch 2023-24

Sr No.	NAME	Sign
	Dr. Prajakta Shailesh Baste	
Div A		
1	Ar. Arpita Amitabh Bhatt	Absent
2	Ar. Suruchi Ashish Randive	
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12	Ar. Samrudhi Mahale	
13	Er. Ashiwini Bhusare	Absent
14	Mr. Levant Gavande	
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### Minutes of Meeting

AMC Meeting dated 30/12/2023 (Ref/AMC/B.Arch./ )


Meeting Agenda: Academic Conduct and Quality Initiatives

- Subject Coordinator meetings with respective Subject teachers were conducted within a given time-frame.
- Teams of Teachers for particular Subjects were guided and instructed for –
  - ✓ Syllabus Content
  - ✓ Student Assignments / Journals / Reports
  - ✓ Technical Sheets
  - ✓ Site Visits were scheduled as a part of the Academic Schedule.
  - ✓ Hands on Workshops
  - ✓ Teaching Methodology / Pedagogy
  - ✓ Teaching Plans were submitted
- Discussion on Participatory Learning Methodology was initiated
- It is decided that the activity of 'Guest Lecture' is considered as a Participatory Learning Method.
- It is concluded not to categorize NPTEL lectures in 'Participatory' learning category.
- Teachers were instructed to revisit & brainstorm over the Teaching Methodologies of their allotted Subjects for improvements.
- Feedback on conduction and display of CIE was taken and found satisfactory for all the Subjects.
- Subject Integration for particular subjects was discussed (e.g. BCM & WD knowledge to be reflected in Design, Landscape & Architectural Design with Real Time Problems / Sites, RIA & UD with societal issue-based Problems / Sites, etc)
- Documentation Activity and Quiz to be encouraged in the Subjects like History.
- More use of 'K-Hub online resource' by the students as well as Teachers were recommended.

  
Prof Arpita Bhatt

(IQAC Coordinator)



  
Dr. Prajakta Baste  
(Principal)

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Ref/AMC /B.Arch. /9

Dated - 27/01/24

### Notice

All the subject coordinators are hereby informed to take monthly review and fill in the monthly report by Tuesday 30/01/24.

The feedback from the subject teachers should consist of-

- completion of syllabus planned till now
- conduction of planned guest lectures, site visits, hands on workshop etc till date .
- CIE displayed till date
- Any other important observation to be discussed.

Prof . Geetanjali Patil  
(Chairman AMC)

Prof Arpita Bhatt  
IQAC Coordinator

Dr. Prajakta Baste  
Principal



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### List of Faculty – B.Arch 2023-24

Sr No.	NAME	Sign
	Dr. Prajakta Shailesh Baste	
Div A		
1 ✓	Ar. Arpita Amitabh Bhatt	
2 ✓	Ar. Suruchi Ashish Randive	
3 ✓	Ar Umesh Raghunath Hirve	
4 ✓	Ar.Abhishek Prabhakar Nasikakar	
5	Ar Ketki Chandrakant Joshi	
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14	Mr .Sankalp Gorakh Bagul	
15	Ar. Shreya Khare	
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5	Ar. Hemant BalkrishnaThakare	
6 ✓	Ar.Purva Harish Shah	
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**Minutes of Meeting**

AMC Meeting dated 27/01/2024 (Ref/AMC/B.Arch./09)

Meeting Agenda: Monthly Academic Review

Respective Subject Teachers presented the Monthly Review w.r.t. the following –

1. Syllabus conduction and completion.
2. Guest Lectures, Site Visits, Hands on Workshops, any other Academic Activities.
3. Display of CIE in the Classrooms as per the scheduled dates.

The following issues were discussed &/or finalized –

- COs shall be implemented in the Rubric system of marking for the next 1-2 assignments of all the subjects.
- A meeting for Rubric Marking application and CO-PO 2022-23 deficits & observations was proposed to be conducted by AMC, and was supported by the Principal Madam.
- Prof. Suruchi Ranadive was instructed to present the updates on the Rubric Marking Prototype(s) in the following meeting.

Prof Arpita Bhatt  
(IQAC Coordinator)

Dr. Prajakta Baste  
(Principal)





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Ref/AMC /B.Arch. /14

Dated 018/03/24

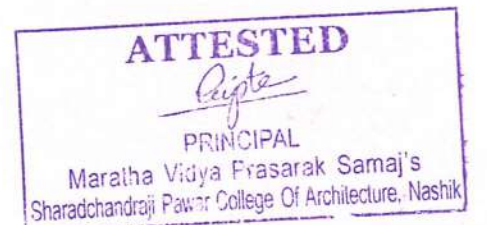
### Notice

All the Class Coordinators are requested to remain present for the meeting on Wednesday 03/03/2024 at 1.00pm, to discuss the further plan of action based on feedback for the parent teachers meeting which was conducted for the parents who failed to attend the earlier scheduled meeting on 12/03/2024. Kindly come up with necessary data.

Prof . Geetanjali Patil  
( Chairman AMC )

Prof Arpita Bhatt  
IQAC Coordinator

Dr. Prajakta Baste  
Principal





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Ref/AMC /B.Arch. /13

Dated - 18/03/24

### Notice for Teachers

All the teachers are hereby informed to conduct the Mentor- Mentee Meeting as per their convenience and requirements of the students. The mentors will meet the students at least twice in a semester and record the progressive report of each of the students at the end of the semester.

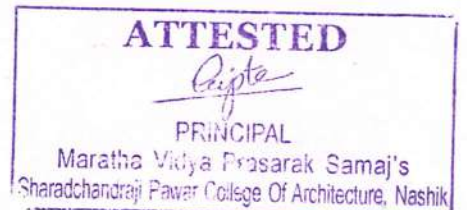
The major points of discussion shall include:

- Performance in the Examinations (till date)
- The defaults (if any) of the students & their cause
- Suggest necessary improvements
- Any other issues

Prof . Geetanjali Patil  
( Chairman AMC )

Prof Arpita Bhatt  
IQAC Coordinator

Dr. Prajakta Baste  
Principal







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Sharadchandraji Pawar College of Architecture  
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Ref/AMC /B.Arch. /12

Dated - 18/03/24

### Notice for Students

All the students are hereby informed to meet their respective mentors for informing their timely progress and discuss.

These Meets are recorded by the mentors for your future upgrades and progressions.

It is mandatory to meet your mentors during the term at least twice.

Prof . Geetanjali Patil  
(Chairman AMC)

Prof Arpita Bhatt  
IQAC Coordinator

Dr. Prajakta Baste  
Principal





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### Minutes of Meeting

AMC Meeting dated 18/03/2024 (Ref/AMC/B.Arch./13)

Meeting Agenda: Mentor-Mentee Meetings

- 1) Mentor-Mentee Meetings were conducted by the teachers within the given time-window.
- 2) Review of the Mentor Mentee Meetings was taken and following issues were discussed –
  - Academic Performance of the Mentee (w.r.t. Internal Marking & Univ. Exam Results).
  - Defaulting Subjects.
  - Plausible Reasons & scope of Improvement in the results.
  - Any other issue(s) raised / questioned / proposed by any particular Mentee.
- 3) Considering the lack of positive response by the mentee, more informal approach for the meetings was proposed & finalized.

Prof Arpita Bhatt  
(IQAC Coordinator)

Dr. Prajakta Baste  
(Principal)





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Ref/AMC /B.Arch. /13

Dated - ~~16~~ 03/24

### Notice

The Subject Coordinator (Building Construction & Materials ,Advanced Building Construction ) and the respective subject teachers are hereby informed to remain present for the meeting at 1.00 pm on Wednesday 27<sup>th</sup> March 24.

The agenda of the meeting is to carry forward the discussion on pedagogy for technical correctness of drawings in BCM initiated in the AMC meeting on 16<sup>th</sup> March 2024. Kindly come prepared with a case (discussed prior with the <sup>subject</sup> coordinator ) each for discussion to finalize the necessary actions.

Prof . Geetanjali Patil  
( Chairman AMC )

Prof Arpita Bhatt  
IQAC Coordinator

Dr. Prajakta Baste  
Principal



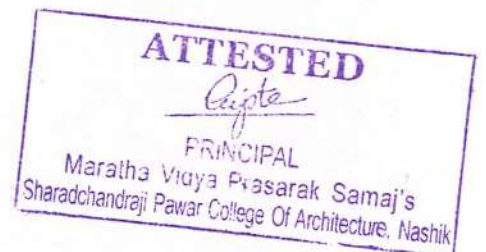


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**List of Faculty – B.Arch 2023-24**

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Div A		
1	Ar. Arpita Amitabh Bhatt	
2	Ar. Suruchi Ashish Randive	
✓3	Ar Umesh Raghunath Hirve	
4	Ar. Abhishek Prabhakar Nasikakar	
5	Ar Ketki Chandrakant Joshi	
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9	Ar. Vineet Bobade	
10	Ar. Radhika Bhattad	
11	Ar. Sayali Gogte	
✓12	Ar. Gaurav Dilip Arbooj	
13	Er. Anil Uttamrao Thombare	
14	Mr. Sankalp Gorakh Bagul	
15	Ar. Shreya Khare	
Div B		
✓1	Ar. Vijaykumar Balasaheb Pawar	
2	Ar. Ashish Ramdas Khemnar	
3	Ar. Geetanjali Shrikant Patil	
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**Minutes of Meeting**

AMC Meeting dated 20/03/2024 (Ref/AMC/B.Arch./13)

Meeting Agenda: Technical Correctness of Drawing Sheets in BCM

- Coordinator of the Subject of 'Building Construction & Materials' attended the Meeting to continue their discussion formally w.r.t. Technical Correctness of the Building Construction Drawings.
- Sample Student Submissions were brought to the discussion.
- Lack of Technical Correctness and the scope for improvement was analyzed.
- Discussion on necessary 'action to be taken' to successfully achieve the improvements were brainstormed.
- Each Teaching Faculty noted down the discussed suggestions &/or instructions for the improvements in the Student Work.

Prof Arpita Bhatt  
(IQAC Coordinator)

Dr. Prajakta Baste  
(Principal)





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Ref/AMC /B.Arch. /15

Dated - 18/04/24

### Notice

As discussed in the meeting on 03/04/2024, all the Class Coordinators are hereby requested to

- notify regarding the circular 197 and its implications for the defaulting students in the respective classes.
- Collect the final submission dates subject wise and to display the same to each class to avoid the clashes in the final submission to the students by 8/04/24.

Prof . Geetanjali Patil  
( Chairman AMC )

Prof Arpita Bhatt  
IQAC Coordinator

Dr. Prajakta Baste  
Principal





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**Minutes of Meeting**

AMC Meeting dated 03/04/2024 (Ref/AMC/B.Arch./13)

Meeting Agenda: Circular 197 for Defaulting Students

1. Dr. Prajakta baste explained various possible implications of Circular 197 on the Academics of the Defaulting Students.
2. Prof. Geetanjali Patil registered the Dates of the Final Submissions for all subjects to identify & resolve the clashes in the Submission Schedule.

Prof Arpita Bhatt  
(IQAC Coordinator)

Dr. Prajakta Baste  
(Principal)





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Ref/AMC /B.Arch. /16

Dated - 10/04/24

### Notice

All the Subject teachers of Design teams are requested to remain present for the meeting on Saturday 13/04/2024 at the time mentioned below. to discuss the feedback of the external Jury conducted for the respective classes and the effect of that on the performance of the students.

T Y B Arch : 9.00am to 9.30am

4<sup>th</sup> Y B Arch : 9.30am to 10.00am.

(Fourth Yr. B Arch).

Kindly bring the feedback sheets filled by the students for discussion.

Prof. Geetanjali Patil  
(Chairman AMC)

Prof Arpita Bhatt  
IQAC Coordinator

Dr. Prajakta Baste  
Principal



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Ref/AMC /B.Arch. /17

Dated - 23/04/24/

### Notice

All the Academic Monitoring Committee members and the teachers for the Audit Courses in Term II are hereby informed to remain present for the meeting of the Academic Monitoring Committee on Thursday 25/04/24 at 1.30 PM .

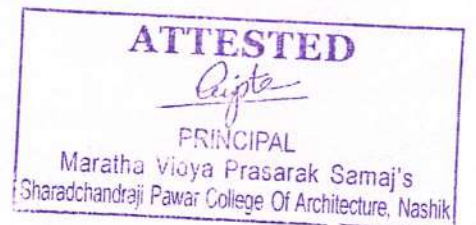
The Agenda of the meeting is to discuss following issues:

1. Subject Coordinators Report wrt completion, CIE, special mentions and remarks
2. Audit courses
3. Technical Correctness in BCM and Design
4. Any other topic.

Prof . Geetanjali Patil  
(Chairman AMC)

Prof Arpita Bhatt  
IQAC Coordinator

Dr. Prajakta Baste  
Principal





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5	Ar Ketki Chandrakant Joshi	Absent
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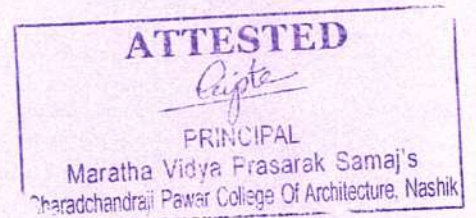


**Minutes of the AMC meeting held on 25/04/24 :**

1. Subject Coordinators presented reports regarding the CIE, compilation of syllabus till date and special efforts taken in the semester.

To summarize -

- The CIE is displayed from time to time in the class for the students in all the subjects.
  - Integration between the subjects is seen in different subjects.
  - The note on the technical correctness subject of BCM to be prepared by the Subject Coordinator .
  - Suggestions: T Y BArch electives should be conducted in the workshop manner involving more technical aspects besides Mud and vernacular architecture.
  - Observations: Elective contents influences the design concept decision. Spot exhibitions concept was executed and found useful throughout the year.
  - Elective- ferrocement is constantly being postponed due to budgetary issues .
  - NPTEL and SWAYAM course can be taken up as Elective as per the paripatrak 72.
  - Budgetary provisions for workshop and elective ,should made as mentioned by Prof, Arpita Bhatt.
2. Audit Courses were conducted and marked as per the schedule. The method of conduction varied as lecture delivery, Site visit, Hands on learning and performances.





**MVPS's SP College of Architecture**

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## **6.5.2**

**The institution reviews its teaching-learning process, structures & methodologies of operations, and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities**

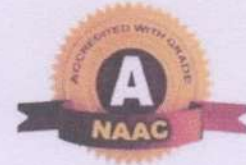
**B) Course Outcomes and Program Outcomes**



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PO ATTAINMENT 2023-2024		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	NAME OF FACULTY
Course Name	Course Code	KNOWLEDGE	PRINCIPLES AND THEORY	CREATIVITY	PRACTICE	COLLABORATIVE WORKING	INCLUSIVITY	TECHNOLOGICAL KNOWLEDGE	ABILITY TO CHOOSE AREA OF SPECIALIZATION	
Basic Design	1201901 [SS]	1.62	1.62	1.62	1.93	1.62	1.35	0.00	1.08	Ankita Nikam
Architectural Design I	1201909 [SV]	1.10	1.56	1.56	0.00	1.28	0.92	0.00	0.37	Ankita Nikam
Building Construction & Materials I	1201903 [SS]	0.98	1.18	0.49	1.28	0.79	0.59	1.08	0.89	Tejaswini Marode
Building Construction & Materials II	1201911 [SS]	1.4	1.5	0.6	1.7	1.4	0.8	1.5	0.9	Tejaswini Marode
Theory of Structures I	1201904[TH]	1.37	2.28	1.37	1.82	1.37	0.91	2.28	1.97	Ashwini Bhusare
Theory of Structures II	1201912[TH]	0.91	1.27	0.91	1.21	0.91	0.60	1.51	0.91	Ashwini Bhusare
Architectural Graphics and Drawing I	1201905 [SS]	2.42	2.42	2.09	2.09	2.09	1.93	1.61	1.93	Levant Gavande
Architectural Graphics and Drawing II	1201913 [SS]	2.42	2.42	2.09	2.09	2.09	1.93	1.61	1.93	Levant Gavande
History of Arch & Culture I	1201906 [SS]	1.23	1.43	1.02	1.02	1.02	1.43	0.82	0.82	Vinit Bobade
History of Arch & Culture II	1201914 [SS]	1.30	1.43	0.91	0.65	1.04	1.43	1.17	0.91	Vinit Bobade
Communication Skills	1201907 [SS]	2.24	2.24	2.11	2.24	2.24	1.45	1.71	1.45	Radhika Bhattad
Fundamentals of Architecture	1201915 [SS]	2.05	2.36	1.57	2.36	1.57	1.57	1.57	1.73	Radhika Bhattad
Workshop I	1201908[SS]	1.00	1.40	1.40	1.20	1.00	1.40	0.00	0.00	sankalp bagul
Workshop II	1201916[SS]	1.00	1.40	1.40	1.20	1.00	1.40	0.00	0.00	Sankalp Bagul
Architectural Design II	2201917 SV	2.14	2.14	2.14	2.14	2.03	2.14	2.14	2.14	Gaurav Arbooj
Architectural Design III	2201926 SV	2.11	2.11	2.11	2.11	1.99	2.11	2.11	2.11	Gaurav Arbooj
Building Construction & Materials III	2201918	1.12	1.12	0.48	0.80	0.64	0.48	0.96	0.72	Manisha Rajole
Building Construction & Materials IV	2201928	1.52	1.42	1.52	1.09	0.76	0.87	1.52	1.09	Manisha Rajole
Theory of Structures III	2201520(TH)	1.94	2.43	1.46	1.94	1.46	0.97	2.43	1.46	Ashwini Bhusare
Theory of Structures IV	2201529(TH)	0.90	1.19	0.90	1.19	0.90	0.60	1.49	0.90	Ashwini Bhusare
Computer Aided Drawing and Graphics	2201921	1.99	2.11	1.68	2.11	1.96	2.11	1.75	1.40	Niketa Kothavale
Environmental Science	2201930	2.00	2.00	1.73	2.00	1.20	2.00	2.00	1.07	Vinit Bobade
History of Arch & Culture III	2201922 (SS)	2.14	2.5	0.82	0.82	1.22	1.26	1.98	0.82	Megha Rutte
History of Arch & Culture IV	2201931 [SS]	2.40	2.77	0.92	0.92	1.47	1.47	2.20	0.92	Megha Rutte
Building Services I	2201924	1.46	0.97	1.14	1.24	0.97	0.97	1.14	0.97	Sharmistha S
Building Services II	2201933	1.52	0.97	1.24	0.97	0.97	0.97	1.24	0.97	Sharmistha S
Climatology	2201925 [SS]	1.93	1.93	1.39	1.93	1.72	1.93	1.82	1.82	Ankita Nikam
Site Survey and Analysis	2201529(ss)	0.97	0.97	0.00	0.48	0.48	0.00	0.00	0.00	Ashwini Bhusare
Architectural Design IV	3201935 SV	2.21	1.56	1.37	1.56	1.82	1.04	1.17	1.72	Sayali Gogte
Architectural Design V		2.11	1.49	1.30	1.49	1.73	0.99	1.12	1.64	Sayali Gogte
Building Construction & Materials V	3201937 SV	1.76	1.76	1.76	1.76	1.76	0.59	0.59	0.59	Sachin Waje
Building Construction & Materials VI	3201946 SV	1.38	2.07	2.07	1.97	1.38	2.07	2.07	1.38	Sachin Waje
Theory of Structures V	2201520(TH)	1.95	2.43	1.46	1.95	1.46	0.97	2.43	1.46	Ashwini Bhusare
Theory of Structures VI	3201548(TH)	1.08	1.43	1.08	1.43	1.08	0.72	1.79	1.07	Ashwini Bhusare
Landscape Architecture	3201939 SS	2.83	2.40	2.20	3.00	1.80	2.33	2.17	1.33	Nitesh Patil
Elective I [Contemporary Architecture]	3201940 [SS]	2.06	2.06	0.82	2.06	0.41	1.03	1.72	0.00	Suruchi Ranadive
Elective II	3201949 (SS)	2.00	1.41	1.55	1.76	1.69	1.55	1.41	1.60	Nitesh Patil
Building Services III	3201942	1.79	1.79	0.89	0.79	1.49	1.19	1.19	0.60	Hemant Thakare
Building Services IV	3201951	1.67	1.67	0.84	0.74	1.12	1.12	1.12	0.56	Hemant Thakare
Working Drawing I	3201943 (SS)	1.83	1.83	-	1.83	-	-	1.83	-	Ashish Khemnar
Working Drawing II	3201952 [SS]	1.86	1.86	-	1.86	-	-	1.86	-	Ashish Khemnar
Architectural Design VI	4201953	2.10	1.05	2.10	2.10	1.17	2.10	2.10	1.52	Abhishek Nasikakar
Architectural Design VII	4201960	2.29	1.15	2.29	2.29	1.27	2.29	2.29	1.65	Abhishek Nasikakar
ABCS 1	4201954	1.36	1.26	1.46	0.97	1.56	0.68	1.36	0.68	Vijay Pawar
ABCS 2	4201961	1.34	1.17	1.34	1.26	1.26	1.01	1.09	1.17	Vijay Pawar
US 1	4201915 (SS)	2.50	2.20	2.00	1.90	1.70	2.00	1.90	1.90	Radhika Bhattad
US 2	4201962 (SS)	2.50	2.20	2.00	1.90	1.70	2.00	1.90	1.90	Radhika Bhattad
Research in Architecture - I (3rd Yr)	4201948 (SS)	0.50	0.50	0.33	0.50	0.00	0.00	0.33	0.33	Hemant Thakare
Research in Architecture - II (4th Yr)	4201956 (SS)	1.15	1.15	1.15	0.92	1.04	1.04	1.04	1.04	Hemant Thakare
Elective III	4201957 (SS)	2.00	1.41	1.55	1.77	1.70	1.55	1.41	1.65	Purva Shah
Elective IV	4201963 (SS)	2.08	1.47	1.61	1.83	1.76	1.61	1.47	1.71	Purva Shah
Elective V	4201964 (SS)	2.06	1.45	1.60	1.82	1.74	1.60	1.45	1.70	Purva Shah
Quantity Surveying & Specification Writing I	4201958.00	1.48	1.35	1.35	1.85	1.60	0.86	1.60	1.11	Manisha P.Rajole
Quantity Surveying & Specification Writing II	4201965.00	1.81	1.33	1.57	2.05	1.81	1.09	1.93	1.33	Manisha P.Rajole
Professional Practice	4201959(PP)	1.80	1.80	1.80	1.80	1.80	1.80	1.80	0.00	Niketa Kothavale
Project Management	4201966(PP)	1.76	1.76	1.76	1.76	1.76	1.76	1.76	0.00	Niketa Kothavale
ADP	5201968(sv)	1.60	1.44	1.78	1.07	1.07	1.89	1.78	0.89	Umesh R. Hirawe
Total Sum		98.03	95.61	77.71	88.51	75.95	72.46	83.32	61.80	
DIRECT AVERAGE PO ATTAINMENT		1.72	1.68	1.41	1.55	1.38	1.32	1.46	1.12	



*P. P. P.*  
Principal





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Strategies implemented to Improve Programme Outcomes-

**PO1:** Knowledge domain increased thru guest lecture.

PO2: Principles and theories explained and learned well learning outcome improved thru better teaching methodology

**PO3:** Hands on workshop are conducted

PO4: Office identified for professional practice inducted better outcome for students

PO5: Many Collaboration is seen in the Institute through the Interdisciplinary Symposium

PO6: Gender, environment and sensitivity included in design briefs, audit courses also improve sensitivity towards an inclusive environment

PO7: Guest Lecture

PO8: Elective in area of interest



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## **6.5.2**

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**C) Implementation Program Outcomes**

**(PO1 & PO3)**



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D)	SUBJECT NAME	INDUSTRY READINESS (A.Y. 2023-24)
		<b>First Year B.Arch.</b>
1	HOAC II	Expert Lecture on Wada Architecture by Prof. Sandhya Mahatre
2	TOS I	Expert Lecture on Importance on Civil Engineering in Architecture by Dr. M.P. Kadam
		<b>Second Year B.Arch.</b>
3	AD III	Guest Lecture by Ar. Hitesh Panjwani
4	SSA	Expert Lecture on Contour Survey Prof. R.C. Patil
		<b>Third Year B.Arch.</b>
5	BCM V	Expert Lecture on Wooden Derivatives & its Market Forms by Mr. Darshan Batavia
6	BS III	Workshop on HVAC Heat Load Calculation by Er. Sachin Save
7	Elective I	Expert Lecture on Contemporary Architecture Theories by Ar. Saachi Jain
8	Elective II	Expert Lecture on Role of a Landscape Architect by Ar. Mayura Patil
9	Elective II	Expert Lecture on Hospital Planning by Shri. Nitin Pathan
		<b>Fourth Year B.Arch.</b>
10	US I	Masterplan for Akrale (Real-time Problem)
11	US II	Urban Conservation by Ar. Sanaeya Vandrewala





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12	PP	Guest Lecture on Taxation by CA Prathamesh Adhikari
13	QSE&SW I	Guest Lecture by Shri. Nitin Pathak
14	Elective III	Guest Lecture & Field Visit by Ar. Rohan Deore
15	Elective III	Guest Lecture series on Cultural Landscapes
16	Elective III	Guest Lecture on Slum Rehabilitation by Er. Vandana Padmanabhan
17	Elective IV	Guest Lecture on Graphic Design by Mr. Harshal Lakhwani
18	Elective V	Guest Lecture on Biodiversity Conservation by Shri. Shekhar Gaikwad
19	Elective V	Guest Lecture on Art in Architecture by Prof. Sankalp Bagul
20	---	Seminar on Overseas Opportunities for Post Graduation by Mr. Kunal More





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Industry Readiness			
S. No.	Discipline	Year	Title of the Report
1	Foundation Year	I Year	How to Read a Building
2	Foundation Year	I Year	Guest Lecture – "Kathak – Art of Storytelling"
3	Product Design Furniture Design	II, III Year	System Innovation
4	Product Design	III Year	Introduction to System
5	Product Design Furniture Design	III Year	Indian Design History
6	Product Design	III Year	Lecture on PCB design
7	Interior Design	III Year	Paints & Allied materials
8	Interior Design	III Year	Air Conditioning Design
9	Furniture Design	III Year	Modular Furniture Making and Designing in Detail
10	Product Design Interior Design Furniture Design	III Year	Guest Lecture on Bamboo
11	Product Design	IV Year	NID visit & Interaction
12	Product Design	IV Year	Design with Empathy
13	Interior Design	IV Year	Guest lecture on Travel Agency Design
14	Interior Design	II, III, IV Year	Finishing Materials



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<b>BEST PRACTICE - 2 : Hands on Workshop</b>			
<b>Bachelor of Architecture</b>			
<b>A.Y. Year</b>	<b>Sr.no.</b>	<b>Date</b>	<b>Event</b>
2023-24	1	15-09-2023	Ganpati Idol making
	2	7-11-2023, 8-11-.2023 and 11-11-2023	Terracotta Sculpture making –
	3	17-11-2023 to 15-12-2023 (Weekly process for 5 weeks)	Game design for Indian Crafts
	4	02-01-2024 – 16-01-2024	Models of light and emotions Spatial expression of Emotions
	5	17-01-2024 & 24-01-2024	Brick bonds and masonry Models
	6	26-02-2024 – 04-03-2024	Bamboo construction and architectural practices
	7	23-03-2024 & 27-03-2024	Timber Joinery Models
	8	03-05-2024	Structural systems Model making
	9	08-05-2024 & 15-05-2024	Timber Truss Models



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**Name of Program:** F. Y. B. Arch.  
**Name of Course:** Ganesha Idol Making workshop  
**Teaching methodology Adopted:** PARTICIPATIVE LEARNING  
**Name of the faculty:** Prof. Sankalp G. Bagul Prof. Levant G. Gavande  
**Academic Year:** 2023-24 **Sem:** I

<b>Objectives</b>	To teach participants the techniques of shaping, molding, and detailing Ganesha idols using eco-friendly materials. To provide an understanding of the cultural significance and traditions related to Ganesha idol making. To encourage creativity and personal expression in crafting unique, hand-made Ganesha idols.
<b>Date &amp; Duration</b>	15 <sup>th</sup> September 2023 1:30 pm to 5:00 pm
<b>Venue</b>	MVPS SP. College of Architecture Nashik
<b>Student Attended</b>	Open to all B. Arch Students
<b>No of Students Present</b>	50
<b>Brief about the Program (Activity/Event)</b>	In this one-day <b>Ganesha Idol Making</b> workshop, participants will learn to craft Ganesha idols using eco-friendly materials. They will explore shaping, molding, and detailing techniques, while understanding the cultural significance of Ganesha. At the end, participants will take home their own hand-made idol.
<b>Students Outcome/Works example</b>	Student will gain skills in crafting Ganesha idols using eco-friendly materials. They will learn shaping, molding, and detailing techniques, while understanding the cultural significance of the idol.

Program in-charge

Approved by  
(Committee Chairperson)

Principal

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Nashik, Maharashtra, India  
2Q86+JW3, D. K. Nagar, Nashik, Maharashtra 422005, India  
Lat 20.016527°  
Long 73.762365°  
15/09/23 03:35 PM GMT +05:30

GPS Map Camera

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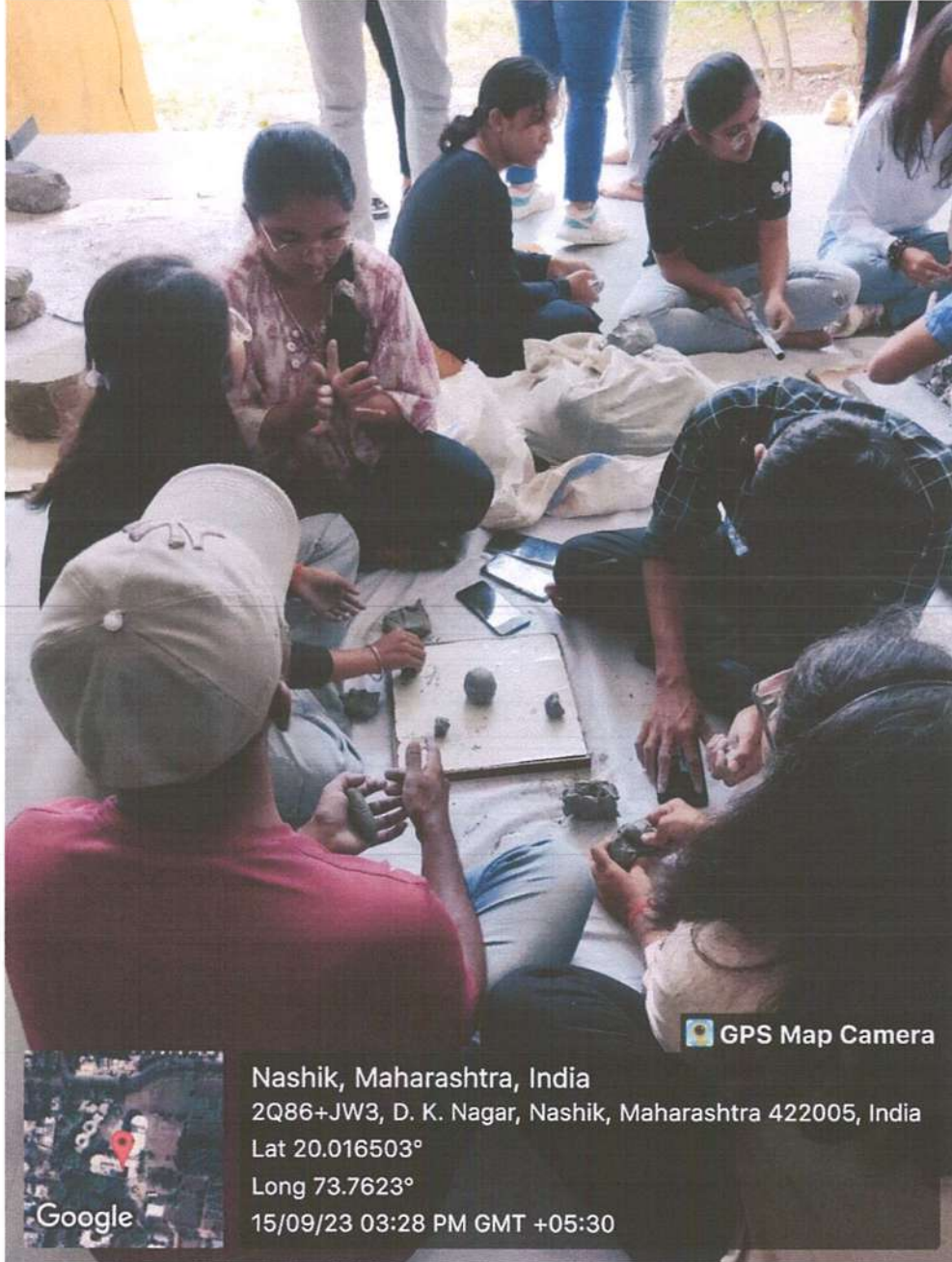




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GPS Map Camera



Google

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Name of Program:	F. Y. B. Arch.
Name of Course:	Audit Course
Title of Assignment:	Terracotta Sculpture
Teaching methodology Adopted:	<b>PARTICIPATIVE LEARNING</b>
Name of the faculty:	<b>Prof. Sankalp G. Bagul Prof. Levant G. Gavande</b>
Academic Year:	<b>2023-24 Sem: i</b>

<b>Objectives</b>	<ul style="list-style-type: none"><li>To understand the properties and characteristics of <b>terracotta</b> as a sculpting material.</li><li>To learn various <b>terracotta sculpting techniques</b>, including molding, modeling, and firing.</li><li>To gain practical experience in <b>handling</b> and working with <b>terracotta</b>, from shaping to finishing the sculpture.</li></ul>
<b>Date &amp; Duration</b>	7 <sup>th</sup> 8 <sup>th</sup> & 11 <sup>th</sup> November 2023 8:30 am to 3:00 pm
<b>Venue</b>	MVPS SP. College of Architecture Nashik
<b>Student Attended</b>	First Year B. Arch.
<b>No of Students Present</b>	38 (A Div.), 38 (B Div.)
<b>Brief about the Program (Activity/Event)</b>	<ul style="list-style-type: none"><li>This activity focuses on <b>terracotta sculpture</b>, where students will learn to shape and mold terracotta. They will practice techniques like modeling and firing to create sculptures. The activity offers hands-on experience in working with terracotta from start to finish.</li></ul>
<b>Students Outcome/Works example</b>	<ul style="list-style-type: none"><li>Students will learn to shape and mold <b>terracotta</b>.</li><li>They will understand how to <b>fire</b> and finish a sculpture.</li><li>Students will create a finished <b>terracotta sculpture</b> using the techniques learned.</li></ul>

Program in-charge

Approved by  
(Committee Chairperson)

Principal





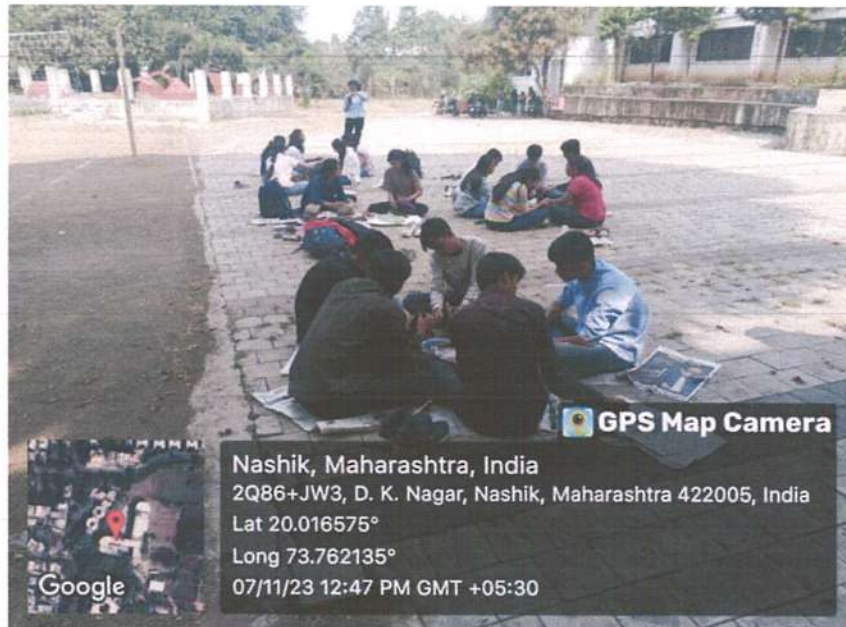
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students Work



Students Work

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### Board Games to Promote Indian Art Forms

Academic Year : 2023-24

Semester : I

<b>Year</b>	First Year B.Arch.
<b>Subject Name</b>	Communication Skills
<b>Subject Code</b>	4201907 (SS)
<b>Teaching Methodology Adopted</b>	Participatory & Problem Solving
<b>Name of the Faculty</b>	Prof. Radhika Bhattad, Prof. Shreya Khare Prof. Purva Shah, Prof. Amruta Sawant
<b>Objective</b>	India is a country with diverse art forms. The presence of these art forms is getting vanished with the generations. The aim of this assignment is to promote these art forms in the form of board games.
<b>Date &amp; Duration of Activity</b>	17/11/23. 24/11/23. 01/12/23. 09/12/23. 15/12/23 11:30 am to 2:30 pm (5 weeks)
<b>Venue</b>	MVPS's S.P. COA, Nashik
<b>No of Students Present</b>	Div A – 37 & Div B – 36
<b>Photograph/Video Available</b>	Yes

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<b>Brief about the Program (Activity/Event)</b>	<p><b>Stage 1</b> – The class was divided in the groups of 4-5 students each and they had to select an art form.</p> <p><b>Stage 2</b> – The students made infographics sheet explaining each art for in detail. The content of the sheet included origin, history, materials used &amp; process making the art.</p> <p><b>Stage 3</b> – The students then made mind maps of 2-3 types of board games applicable to promote the selected art form.</p> <p><b>Stage 4</b> – The students then made the actual board game along with its flash cards, rule book, logo &amp; packaging. The board game was such that they can actually play with it.</p> <p><b>Stage 5</b> – The students actually displayed their games in class where they were explaining their game &amp; they were actually playing each other's games.</p>
<b>Remarks</b>	This activity enabled the students to enhance their graphical. model making & verbal communication skillset. Such consolidated activities grip the interest of the students to give a good output.

Faculty in-charge

Approved by  
(IQAC)

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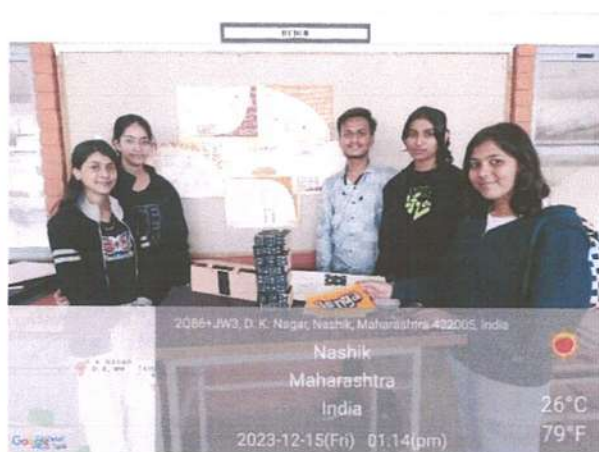
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### PHOTOGRAPHS:



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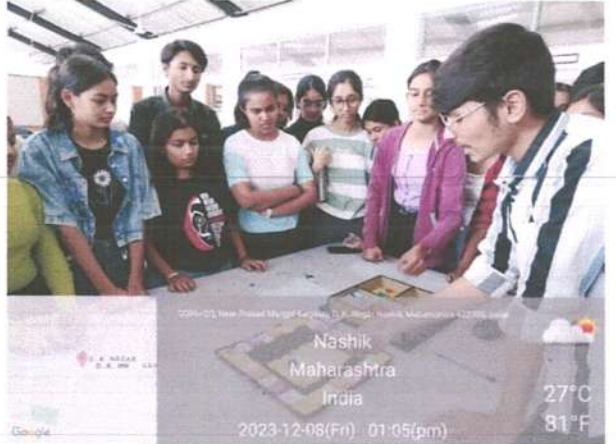
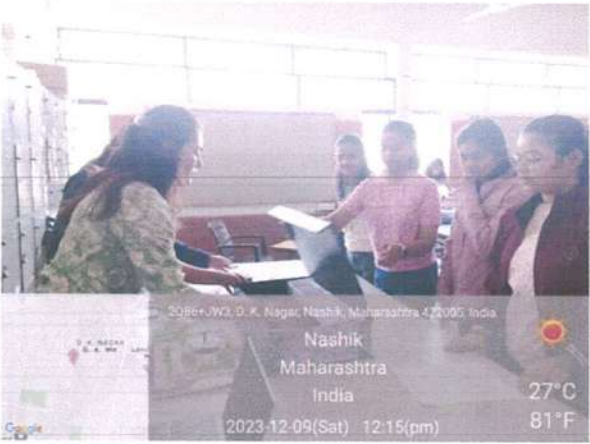




## MVPS's Sharadchandraji Pawar College of Architecture

Udhaji Maratha Boarding Campus, off Gangapur Road, Nashik

Phone : 0253-2570822. Email : cansnashik@mvp.edu.in



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# MVPS's SP College of Architecture

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## Model making: light and emotions

Academic Year : 2023-24

Semester : IV

<b>Year</b>	Second Year B.Arch.
<b>Subject Name</b>	Architectural Design III
<b>Subject Code</b>	2201926
<b>Teaching Methodology Adopted</b>	Participatory with horizontal integration with the subject of Building Services II
<b>Name of the Faculty</b>	Purva Shah, Hemant Thakre, Gaurav Arbooj, Niketa Kothavale, Nitesh Patil, Yusuf Nasikwala, Vrushali Raje, Akshay Lunawat
<b>Objective</b>	To explore spatial impact on emotions of a person while navigating through a space through various aspects of a space such as volume, scale, light etc.
<b>Date &amp; Duration of Activity</b>	2 Weeks Programme From January 2024
<b>Venue</b>	MVPS's SP College of Architecture, Nashik
<b>No of Students Present</b>	Div A - 43 & Div B - 38
<b>Photograph/Video Available</b>	Yes

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<b>Brief about the Program (Activity/Event)</b>	<p>The programme was designed to explore the capacity of a space to evoke various emotions as people experience different spaces. Aspects like Scale, volume, light, texture etc were challenged to understand the impact of the same on human emotions.</p> <p>Students made study models of various cases experimenting with the aforementioned aspects of a space to test the models in sunlight. The exercise helped students to affirm the ideas of scale and proportion w.r.t to human anthropometry. The play of light and its presence, absence and control was explored. The Daylighting chapter of BS II helped students to understand the technicalities of drawing light within and in the AD III studio they could associate intangible emotional aspects to the same.</p> <p>Students associated different study models with different emotions depending on those aspects and could develop a summary of spatial characteristics required to evoke certain kind of emotions.</p>
<b>Remarks</b>	<p>The exercise helped students understand the value and impact architecture can have on human minds. The learning was applied later in the design studio. Model making process of design thinking was emphasized as an important design and decision making tool in the process.</p>

Purva Shah

**Faculty in-charge**

**Approved by  
(IQAC)**

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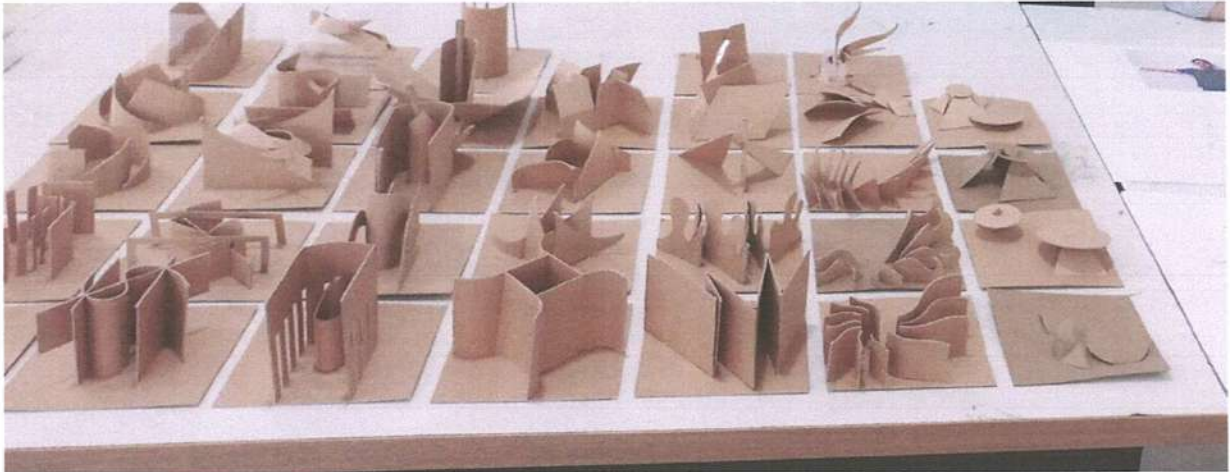
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## STUDENTS WORK:



Student's exploration of understanding light through models

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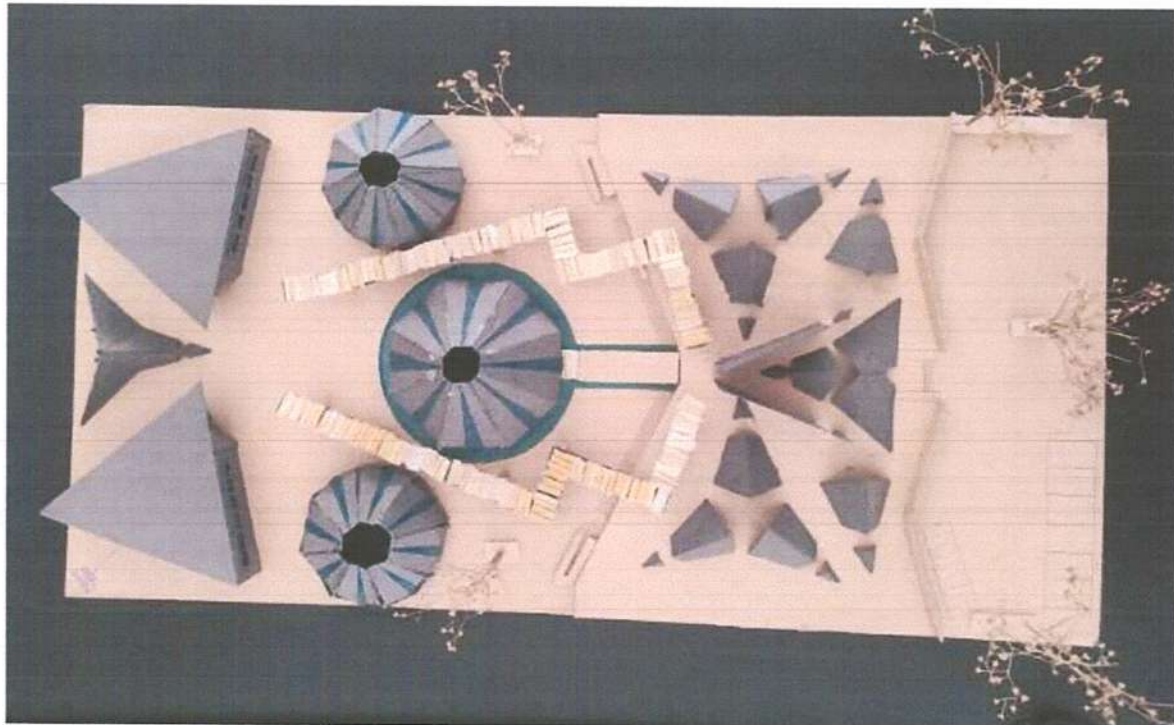
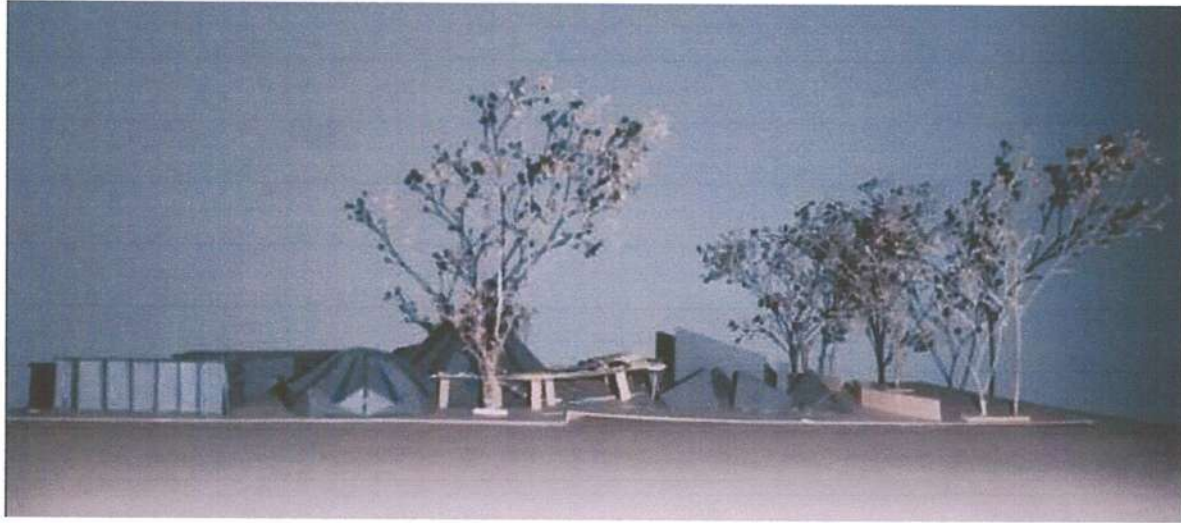




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Final output after model explorations - Prajjwal Datrang

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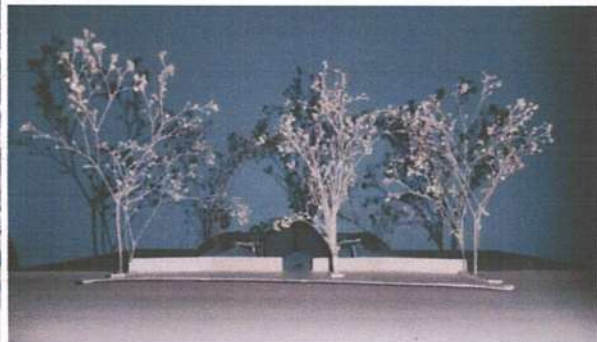
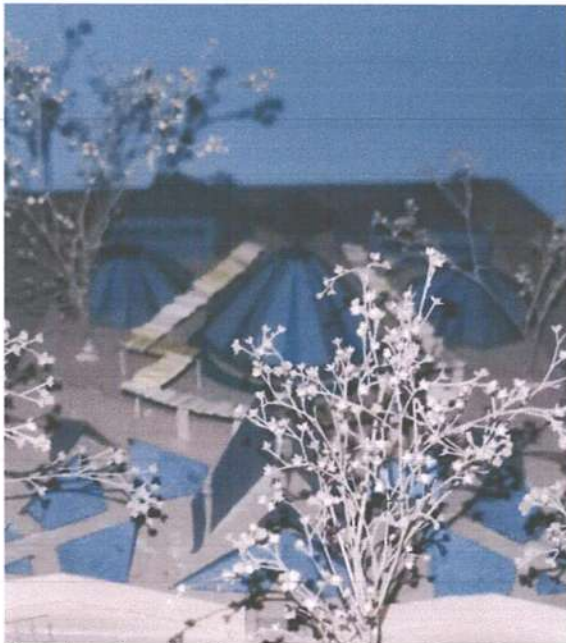
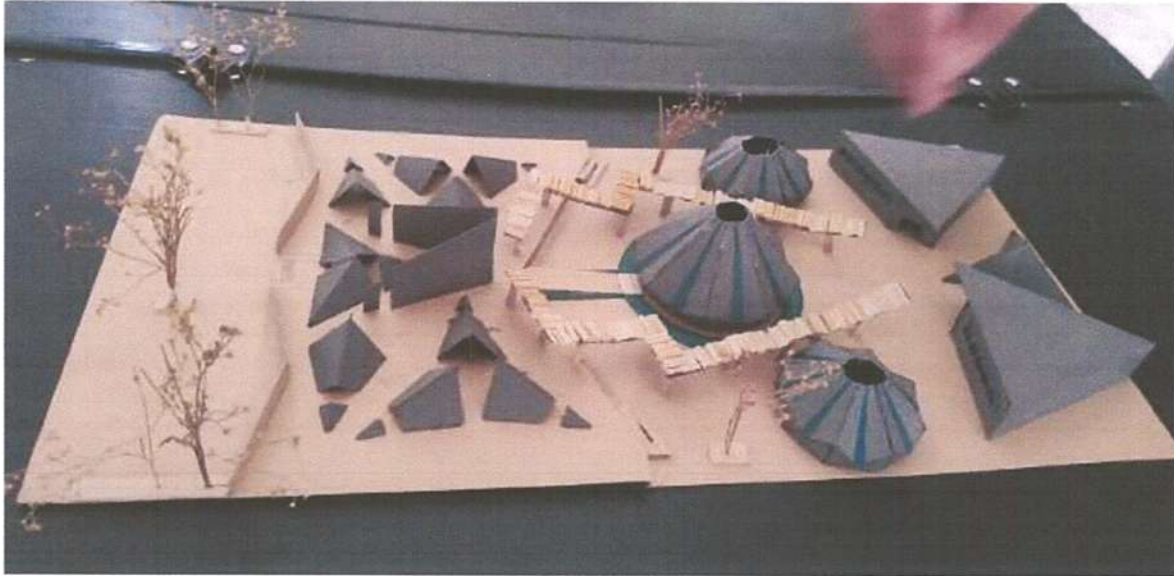




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**Name of Program:** F. Y. B. Arch.  
**Name of Course:** Workshop- I  
**Title of Assignment:** Brick bonds and masonry (Integration with BCM-I)  
**Teaching methodology Adopted:** PARTICIPATIVE LEARNING  
**Name of the faculty:** Prof. Sankalp G. Bagul Prof. Levant G. Gavande  
**Academic Year:** 2023-24 **Sem:** I

<b>Objectives</b>	<ul style="list-style-type: none"><li>To Introduction to building materials with characteristics and Applications.</li><li>To introduce to the students, Various building material, its types, properties</li><li>To understand the construction of Brick masonry walls and types of Bonds</li></ul>
<b>Date /Duration of Activity</b>	17/01/2024 & 24/01/2024 (3+3= 6 hrs)
<b>Venue</b>	MVPS SP College of Architecture Nashik
<b>Student Attended</b>	First Year B. Arch.
<b>No of Students Present</b>	38 (A Div ), 38 (B Div.)
<b>Photograph/Video Available</b>	Photographs available
<b>Brief about the Program (Activity/Event)</b>	<ul style="list-style-type: none"><li>This Assignment is integrated with the subject BCM-I</li><li>Students have Prepared Sheet about various types of Brick bond</li><li>The students prepared Scaled bricks, using terracotta clay then they will make bonds.</li><li>The students documented the data in sketches and notes format in journal.</li></ul>
<b>Students Outcome/Works example</b>	<ul style="list-style-type: none"><li>Through this hands-on Activity student will understand Various building material, its types, properties</li><li>Brick bonds &amp; masonry</li></ul>

Program in-charge

Approved by  
(Committee Chairperson)

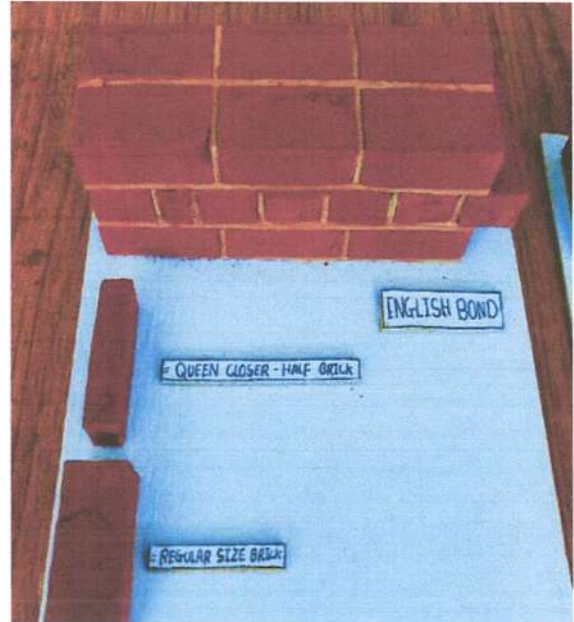
Principal

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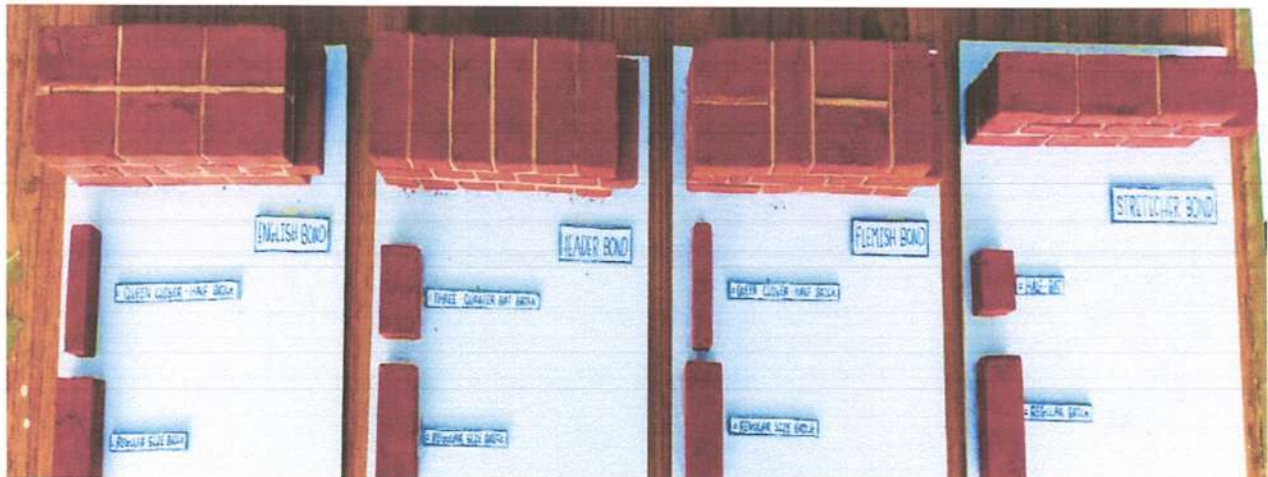




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Students Work



Students Work

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## Electives VI – Sem X [Group 1]

# 'Bamboo Construction & Architectural Practices Training'

in collaboration with  
**Jan Shikshan Sansthan, Nashik**  
**Bamboo Research & Training Centre, Chandrapur**

**MVPS's Sharadchandraji Pawar College of Architecture, Nashik**

**Mentor – Shri. Sandip Gadekar**

**Coordinator – Mrs. Jyoti Landge (Director JSS, Nashik)**

**Shri. Sandip Sinde, Shri. Dattatray Bhoknal**

**Prof. Sheetal Chougule & Prof. Umesh Hirawe**

**26<sup>th</sup> Feb – 4<sup>th</sup> March 2024**



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## GROUP 1

Mentor- Shri. Sandip Gadekar

Co-ordinator - **Prof. Umesh Hirve and Prof. Sheetal Choughule**

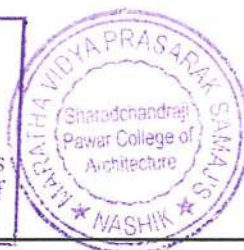
Group Members -

1. Jayesh Kadav
2. Abhijit Chavanke
3. Shyam Handore
4. Rushikesh Falle
5. Shreeram Kanawade
6. Pragati Desai
7. Kanchan Khaire
8. Purnada Bachhav
9. Shloka Kothawade
10. Dipti Bhoje
11. Arpita Borade
12. Kanishka Gunjal
13. Kanishka Jagtap
14. Deep Agarwal
15. Ninad Chavan
16. Rushi Kapote
17. Sumedh Jadhav
18. Sunny Bhimani
19. Mansi Wagh
20. Payal Pardeshi



Co-Ordinator  
Ar. Umesh Hirve

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Co-Ordinator  
Smt. Jyoti Landge

## PREFACE -

This report summarizes a bamboo construction and architecture training program jointly organized by the Bamboo Research and Training Centre, Chichpalli, Nagpur, and Jan Shikshan Sansthan, Nashik, held at MVP's College of Architecture, Nashik. Organized for 5th and 3rd-year students, the program explored bamboo's construction potential and design versatility. Through intensive training and hands-on exercises, participants explored bamboo's structural and aesthetic possibilities, fostering innovation in architectural solutions. This report reflects our shared learning journey and commitment to sustainable design practices.

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## CONTENTS -

1. **Day 1 - Programme Introduction**
2. **Day 2 -**
  - a. Introduction to Tools and Techniques
  - b. Miniature Study Model Making
3. **Day 3 - Bamboo Bending**
4. **Day 4 -**
  - a. Site Visit to Lakhalgaoon
  - b. Centre Line marking
5. **Day 5 -**
  - a. Footing Excavation
  - b. Arches Execution
6. **Day 6 - 7 - Final framework**
7. **Day 8 -**
  - a. Polishing and Finishing
  - b. Structure Inauguration
8. **Final Programme Outcome**

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- On day 1 of the workshop, the focus was on introducing participants to bamboo as a building material and engaging them in the conceptualization of bamboo structures through sketching.
- Activities :
  - 1. Introduction to Bamboo:** The day likely began with an informative session or lecture introducing participants to the properties, characteristics, and sustainable benefits of bamboo as a building material. This has included discussions on its strength, flexibility, rapid growth, and environmental sustainability.
  - 2. Applications of Bamboo:** Participants have explored various applications of bamboo in architecture and construction, including structural elements, cladding, flooring, and furniture. Examples of existing bamboo structures and projects executed by Trainer Mr. Gadekar been showcased to inspire creativity.
  - 3. Conceptual Sketching:** Following the introduction to bamboo, participants would have engaged in a hands-on activity to create conceptual sketches of bamboo structures. This exercise encourages creativity and allowed us to explore different design ideas and configurations using bamboo as the primary material.
  - 4. Selection Process:** At the end of the day, we have presented our conceptual sketches to the group, and a selection process would have taken place to choose the most promising designs for further development. Criteria for selection may include innovation, practicality, sustainability, and alignment with workshop objectives.



Inauguration  
Chief Guest :

**Shri Balasaheb Kshirsagar**  
(Sabhapati )

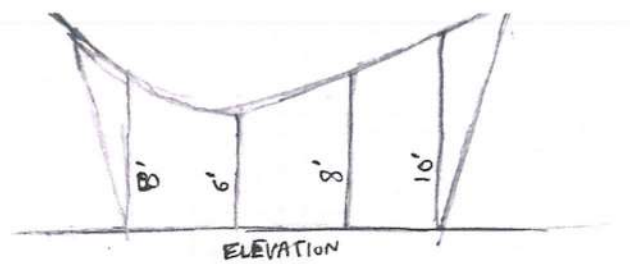
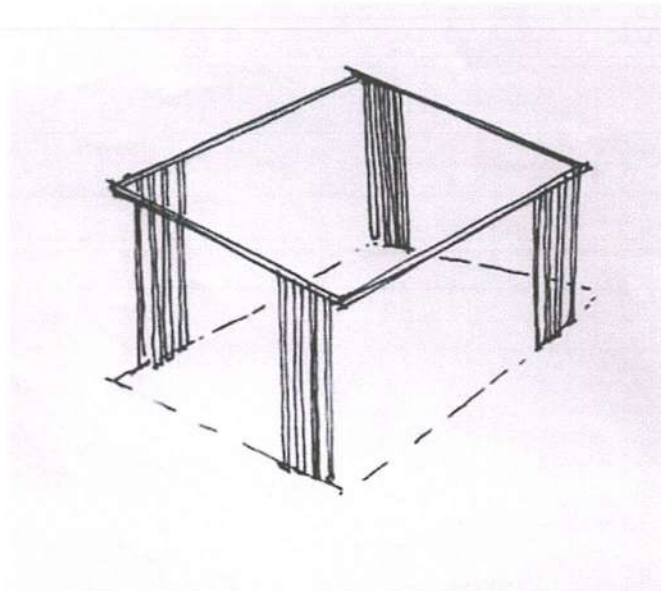
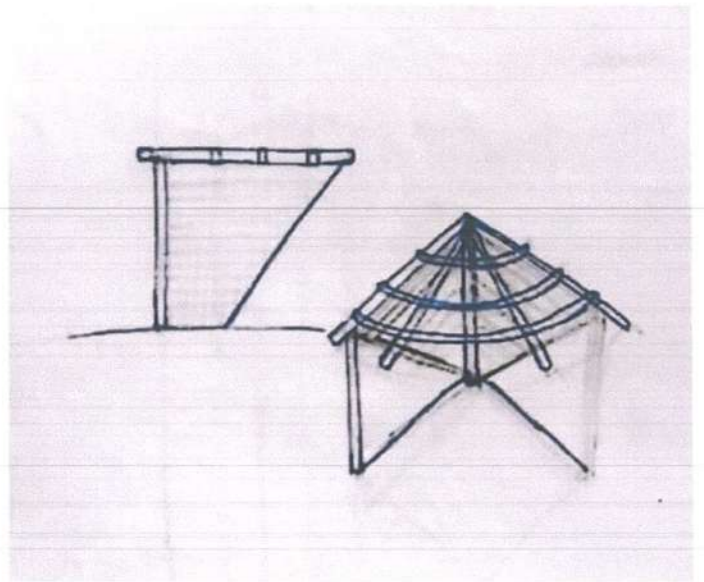
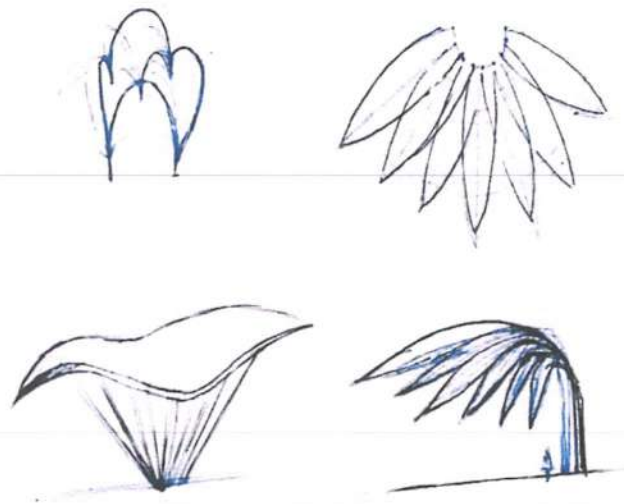
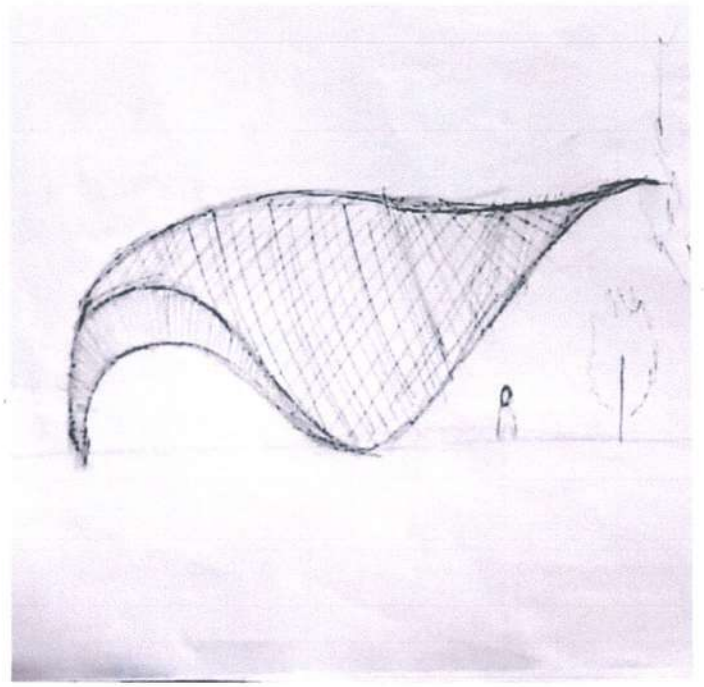
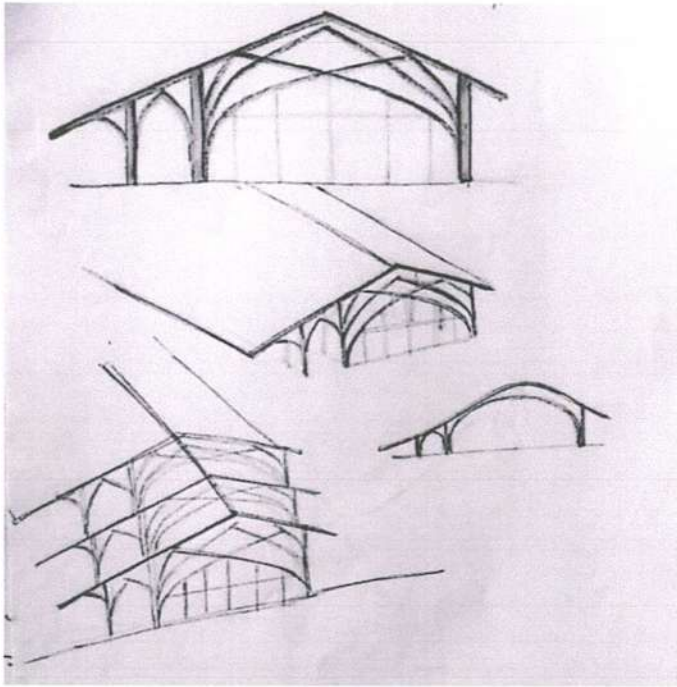
- Ar. Rohan Jadhav

IIA (President) Nashik chapter

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# Concept Sketches



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**TOOLS USED:**

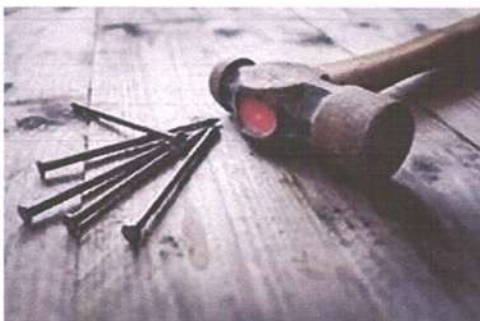
1. **Cast Iron Bamboo Splitter:** Heavy-duty bamboo splitter made of cast iron. Splitting bamboo is easy. These bamboo splitters can easily split bamboo into 4 identical pieces.



2. **Splitting knife:** For cutting bamboo strips.



3. **Hammer:** For use with a splitting knife and chisel and nailing.



4. **Tape measure:** For setting out and general measurements.



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**5. Pliers:** For cutting and fixing chicken mesh and wire.



**6. Hacksaw:** For cutting steel dowels and small bamboo.



**7. Drill and drill bits:** For drilling bamboo for dowels and bolts.



**8. Spanner:** For tightening bolts.



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9. Spirit level: For ensuring plumb and level.



10. Hand grinder machine



11. Bolt nut washer



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## MINIATURE STUDY MODEL

The focus of the workshop's second day was practical engagement with bamboo construction methods and the development of the study model.

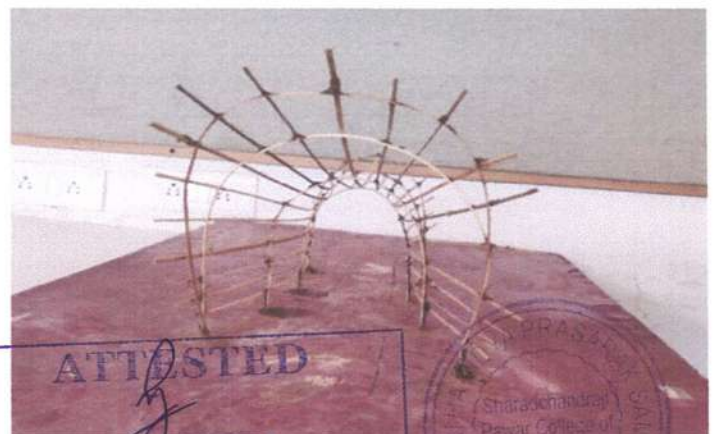
### 1. Preparation of study model

The conceptual sketching activity of day 1 led to the finalization of a sketch that served as inspiration for the bamboo structure. Based on this finalized conceptual sketch, the participants began working on the study model, which acted as a small-scale prototype for the actual bamboo structure created during the workshop period. These models were prepared using bamboo cut down and crafted using different tools like a hacksaw, splitting knife, hammer, hand grinder machine, and others. This model helped derive measurements of the curves of the parametric bamboo structure, which was built by the team during the workshop.

### 2. Tool familiarization

During day 2 of the workshop, participants got to know different tools. They learned how to use tools like a hacksaw, splitting knife, hammer, hand grinder machine, and others. This helped them become comfortable with the tools and understand how they work.

Overall, day 2 provided participants with a practical learning experience, enabling them to apply theoretical knowledge from the introduction lecture and conceptual sketching session to real-world construction projects using bamboo and study models.



Miniature Model

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The structural design of the program is meticulously crafted around the organic forms of curves and arches, embracing the inherent beauty and efficiency of such shapes. Central to this exploration is the innovative use of bamboo as a construction material, offering a sustainable and versatile alternative to traditional resources.

To manipulate bamboo into desired shapes, various bending methods are employed, with heat treatment emerging as a pivotal technique.

### The process unfolds in a series of steps:

1. Firstly, grooves are delicately carved into the bamboo along its naturally curved side, serving as strategic points for bending.
2. Subsequently, the bamboo is subjected to heat along these grooves, inducing pliability and facilitating the bending process.
3. Natural supports, such as trees, are utilized to maintain the desired curvature during bending, ensuring precision and stability in the final structure.
4. For heat treatment, a locally sourced flaming torch is employed, fueled by accessible materials like engine oil, and fabric—specifically cotton cloth, chosen for its resistance to burning.
5. Manual pressure is then applied to further shape the bamboo, refining its form to meet design specifications.
6. To mitigate the risk of breakage, the bamboo is promptly cooled after heating, safeguarding its structural integrity. Thus, the manual heat treatment method emerges as a meticulous and effective approach to bending bamboo.



Grooving on Bamboo



Grooved Bamboo



Heating bamboo with Flame torch



Bent Bamboo



Flame Torch



Each bamboo undergoes a careful process, requiring approximately 10-15 minutes to achieve the desired curvature manually. This method not only demonstrates the adaptability of bamboo in construction but also underscores the importance of traditional techniques and locally available resources in sustainable architectural practices.

During the fourth day of the workshop, we embarked on an enlightening journey, highlighted by a Site visit to Lakhalgaoon and a memorable encounter with Mr. Prashant Atmaram Date.

Overview of the main Highlights:

Field Trip to Lakhalgaoon: Participants were allowed to explore Date Bambusetum at Lakhalgaoon, a village in Nashik. Where they were exposed to a practical environment conducive to learning about bamboo.



Introduction to Bamboo processing unit

Mr. Prashant Date offered participants direct insights and expertise in bamboo cultivation and collection. Learning from seasoned practitioners and experts like him is crucial for developing a profound understanding of bamboo species and their uses.

Participants were introduced to the diverse bamboo species collected by Mr. Prashant over the years, gaining insight into their cultural, economic, and environmental significance.

Mr. Prashant likely shared valuable insights into the importance and usage of each bamboo species, fostering a broader understanding of their global relevance and role in sustainable development. Additionally, exploring bamboo's usage across different countries and industries gave participants a cross-cultural learning experience, enhancing their appreciation for its versatility and adaptability across various contexts.



Site Visit at Lakhalgaoon

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## A. ARCHES EXECUTION

In bamboo structures, arches are commonly used for their strength and flexibility. Arches in bamboo structures are executed by bending the bamboo poles into curved shapes and securing them in place. This was achieved by methods like using metal connectors. The inherent flexibility of bamboo allows it to withstand loads and distribute forces efficiently, making it suitable for creating stable and durable arches in architectural designs.

In bamboo architecture, bamboo is bent and joined together using a range of carpentry techniques to achieve a desired curved form. Arches enable the creation of expansive spans whilst supporting greater loads compared to post and beam structural systems.



Bamboo Bending

## B. FOOTING EXCAVATION

The center line marked on the site for the bamboo structure was for the columns of the structure and the particular was excavated. The next day while working on the framework of the structure the bottom of the bamboo was inserted in the excavated area of the site marked according to the center line and the pit was filled with cement hence completing the positioning of the structure on the ground.



Centre Line Marking



Footing

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## FINAL FRAMEWORK

Day 6-7, 1<sup>st</sup> & 2<sup>nd</sup> March 2024

On day 6 and 7 of workshop, the focus shifted on completing the bamboo framework by placing the bend bamboos, bamboo strips and bamboo joints in following steps:

- 1. Connecting bamboo arches:** Bamboo arches were joined together with bend bamboos over the arches at top, both bottom ends and upper portion.
- 2. Adding bamboo strips:** Then participants added bamboo strips of half-cut bamboo, which gives more strength to structure. This also gives aesthetics to the structure.
- 3. Bolting the joints:** All bamboo strips were joint by nut and bolting, participants used drilling machine in this process. The joints were tied by thread which added strength to joints.
- 4. Gluing the thread:** Once the joints were tied by thread, gluing the joints for additional strength by using fevicol.
- 5. Giving lap joint:** The weak part of bamboo was given lap joint, which added strength to structure. It was also used at short bamboo to get required length.



Final Framework Execution **PRINCIPAL**  
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## A. POLISHING AND FINISHING

Day 8, 3<sup>rd</sup> March 2024

Bamboo is a strong renewable resource but it is natural, making it liable to have a few natural predators. If bamboo is not preserved, insects, especially the powder-post beetle (*Dinoderus spp*), would eat the bamboo from the inside out.

For polishing and finishing following methods were used:

### 1. Polish by hand grinder machine



### 2. Rubbing by steel scrubber



### 3. Boric borax treatment



Borax and boric acid are more environmentally friendly than other preservatives. Borax and boric acid are non-toxic to the environment but they are highly saline.

It is essential to treat only mature bamboo poles. Mature poles have reached their strength and completed the lignification process making it suitable for construction purposes

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## B. STRUCTURE INAUGURATION

The bamboo structure was inaugurated on 4th March 2024 in the presence of Chief Guest Mr. Bhaskar Pawar. All the dignitaries from the involved fields - BRTC (Bamboo Research and Training Center), Jan Shikshan Sansthan, Nashik, Head of MVP's Diploma College, and Principal and Faculty members of MVP's College of Architecture, Nashik- were present.



Welcome of Guests



Group 1 picture with structure

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## SUMMARIZING PROGRAMME OUTPUT

The overall program output of an 8-day bamboo workshop organized by the Bamboo Research and Training Centre in Chandrapur has initiated an interesting initiative for architecture students. This program aimed to provide a comprehensive learning experience, fostering both theoretical knowledge and practical skills related to bamboo architecture. Here's a program output concerning every architecture student who has attended this workshop.

### 1. Theoretical Understanding:

#### Introduction to Bamboo-

- Properties of bamboo.
- Sustainability and environmental benefits.
- Historical and cultural significance in architecture.

#### Design Principles-

- Integrating bamboo into architectural designs.
- Structural considerations.
- Aesthetic aspects and innovative approaches.

#### Regulatory and Safety Guidelines:

- Building codes and regulations related to bamboo construction.
- Safety protocols and best practices.

### 2. Hands-on Practical Training:

#### Bamboo Harvesting and Treatment:

- Proper harvesting techniques.
- Bamboo treatment methods to enhance durability.

#### Joinery Techniques:

- Hands-on experience in various bamboo joinery methods.
- Understanding connections for structural stability.

#### Construction Methods:

- Practical sessions on assembling bamboo structures.
- Demonstration of different construction techniques.

#### Project Work:

- Collaborative projects allowing students to apply learned skills.
- Design and construct small-scale bamboo structures.





## 1. Guest Lectures and Expert Sessions:

### Invited Speakers:

- Architects and designers specializing in bamboo construction.
- Environmentalists and experts on sustainable architecture.

### Case Studies:

- Presentation of successful bamboo architecture projects.
- Learning from real-world applications and challenges.

## 1. Field Visits:

### Bamboo Plantations:

- Visit local bamboo plantations to understand sourcing.
- Interaction with bamboo farmers and growers.

### Bamboo Structures:

- Visit existing bamboo structures in the region.
- Evaluate their design, construction, and long-term sustainability.

## 1. Final Showcase and Evaluation:

- Student Presentations
- Each student or group presents their project.
- Emphasis on design innovation, structural integrity, and sustainability.

### Expert Panel Evaluation:

- Panel of experts evaluates the projects.
- Feedback and constructive criticism for improvement.

## 6. Certificates and Networking:

### Certificates of Completion:

Awarded to participants at the end of the workshop.

### Networking Opportunities:

- Encourage networking among students, faculty, and experts.
- Provide a platform for future collaboration and knowledge exchange.

## 7. Follow-up Resources:

### Learning Materials:

- Provide participants with relevant literature and resources.
- Online platforms for continued learning and updates.

With the incorporation of these elements, the overall program output has equipped architecture students with a solid foundation in bamboo construction, inspired creative thinking, and fostered a commitment to sustainable and innovative architectural practice.





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Elective – 5 – Sem X (Group -2)  
**‘Bamboo Construction & Architectural Practices  
Training ’**

in collaboration with  
**Jan Shikshan Sansthan, Nashik**  
**Bamboo Research & Training Centre, Chandrapur**

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**MVPS’s Sharadchandraji Pawar College of Architecture, Nashik**

26<sup>th</sup> Feb – 4<sup>th</sup> March 2024

**Mentor – Shri. Sandip Gadekar**

**Coordinator – Mrs. Jyoti Landge (Director JSS, Nashik)**

Shri. Sandip Sinde Shri. Dattatray Bhoknal

Prof. Sheetal Chougule & Prof. Umesh Hirawe



# Name of students

5<sup>th</sup> Year B-Arch sem X

1. Ganesh Sonawane
2. Abhishek Mandge
3. Om Mundankar
4. Yashraj Khandar
5. Shubham Londhe
6. Araju Shaikh
7. Tanishka Patil
8. Shruti Sonawane
9. Nikita Thorve
10. Kalyani Waje
11. Janhavi Pawar
12. Utkarsha Shinde
13. Nikita Patil
14. Sanyukta Wagulde
15. Shireen Sayyad
16. Vedika More
17. Darshana Shelar
18. Aditi Yelmame



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# Introduction

Day – 1, 26<sup>th</sup> February 2024

- On day 1 of the workshop, the focus was on introducing participants to bamboo as a building material and engaging them in the conceptualization of bamboo structures through sketching.
- **Activities :**
  - 1. Introduction to Bamboo:** The day began with an lecture introducing participants to the properties, characteristics, and sustainable benefits of bamboo as a building material. This included discussions on its strength, flexibility, rapid growth, and environmental sustainability.
  - 2. Applications of Bamboo:** Participants have explored various applications of bamboo in architecture and construction, including structural elements, cladding, flooring, and furniture. Examples of existing bamboo structures and projects executed by Trainer Mr. Gadekar were showcased to inspire creativity.
  - 3. Conceptual Sketching:** Following the introduction to bamboo, participants engaged in a hands-on activity to create conceptual sketches of bamboo structures. This exercise encouraged creativity and allowed to explore different design ideas and configurations using bamboo as the primary material.
  - 4. Selection Process:** At the end of the day, we have presented our conceptual sketches to the group, and a selection process took place to choose the most promising designs for further development. Criteria for selection included innovation, practicality, sustainability, and alignment with workshop objectives.



Inauguration  
Chief Guest :

Shri Balasaheb Kshirsagar  
(Sabhapati)

Ar. Rohan Jadhav ( IIA President,  
Nashik chapter)

Mrs. Anita Tadvi (Asstt. Commissioner  
Skill Development Centre Nashik )

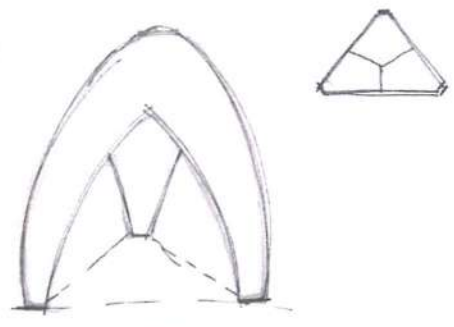
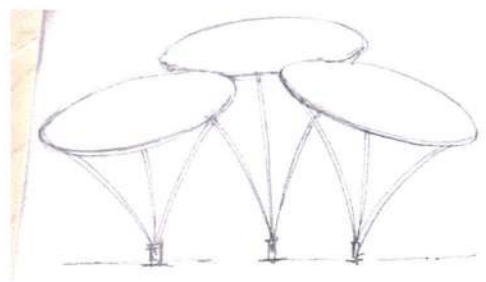
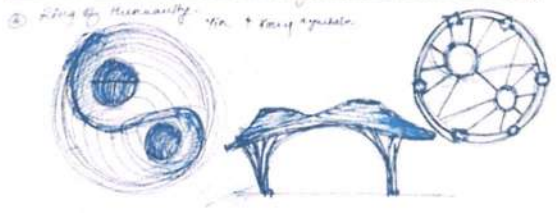
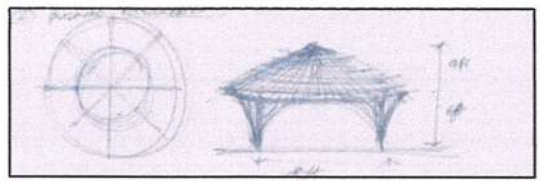


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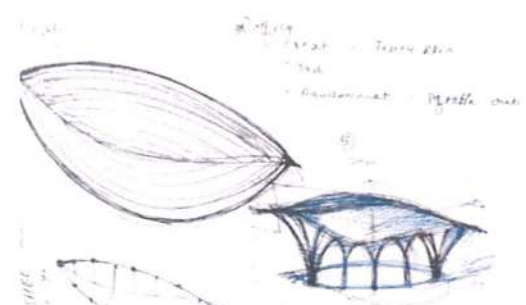
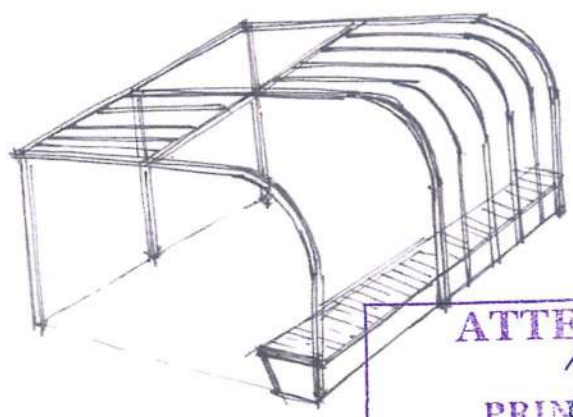
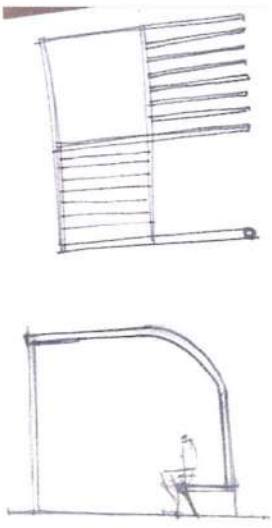
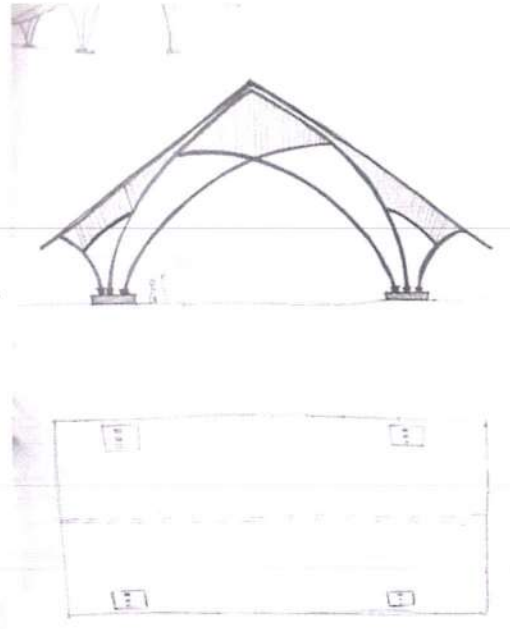


# Concept Sketches

PROJECT - *ABSTRACT MUSEUM BUILDING*  
 PRESENT - 5<sup>th</sup> year  
 PLACE -



NIHARA PATIL  
 67575761



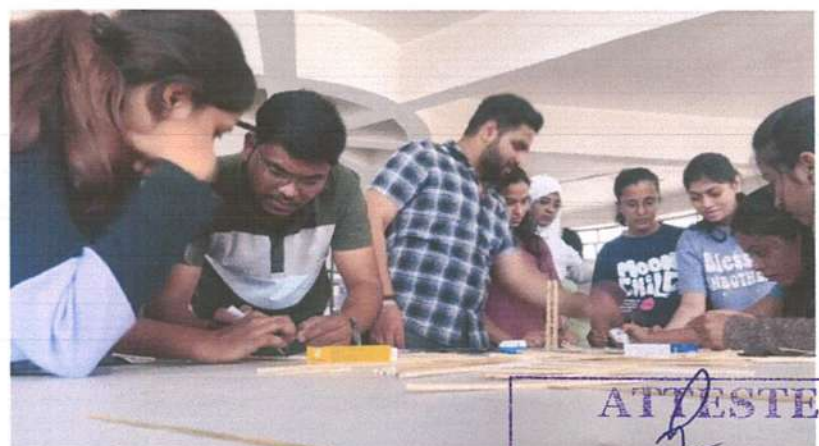
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# Study Model

Day 2 - 27<sup>th</sup> February 2024

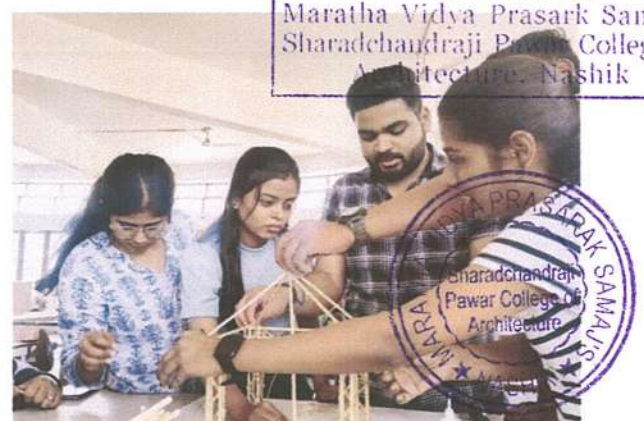
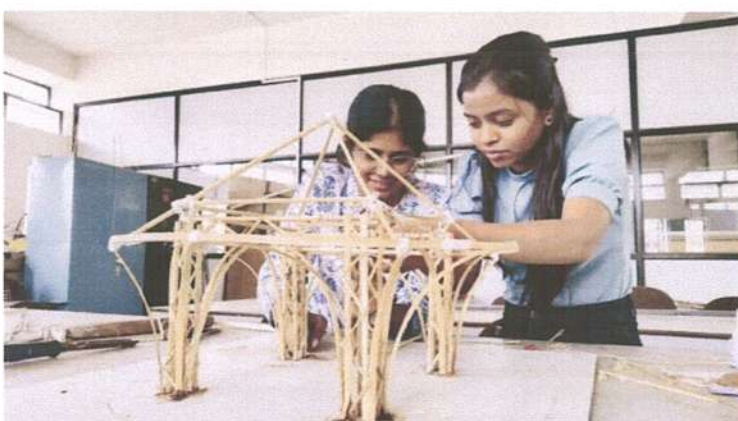
- Day 2 of the workshop was dedicated to hands-on experience with bamboo construction techniques and working on the study model.
- Here's a breakdown of the activities:
  - 1. Study Model Preparation:** Based on the finalized conceptual sketches from day 1, we began working on creating study models for the selected bamboo structures. These models serve as prototypes or scaled-down versions of the final designs, allowing us to experiment with different construction methods and refine the details. A “kutir” pyramid roof structure with 4 columns was finalized.
  - 2. Tool Familiarization:** We had the opportunity to familiarize ourselves with various tools used in bamboo construction, such as saws, drills, and fasteners. This hands-on experience helped us to develop practical skills and confidence in handling bamboo and its associated tools safely and effectively.
  - 3. Collaborative Work:** Working together as a group, we shared knowledge and skills, collaborating to overcome challenges and refine our study models. This collaborative environment had fostered creativity and innovation while also promoted teamwork and communication.
  - 4. Study Model Completion:** By the end of the day, we had completed the study models for the selected bamboo structures. These models serve as valuable prototypes for further refinement and testing before moving on to the full-scale construction phase.
- Overall, day 2 provided us with a practical learning experience, allowing us to apply theoretical knowledge gained from the introduction of lecture and conceptual sketching session to real-world construction projects using bamboo on study model.



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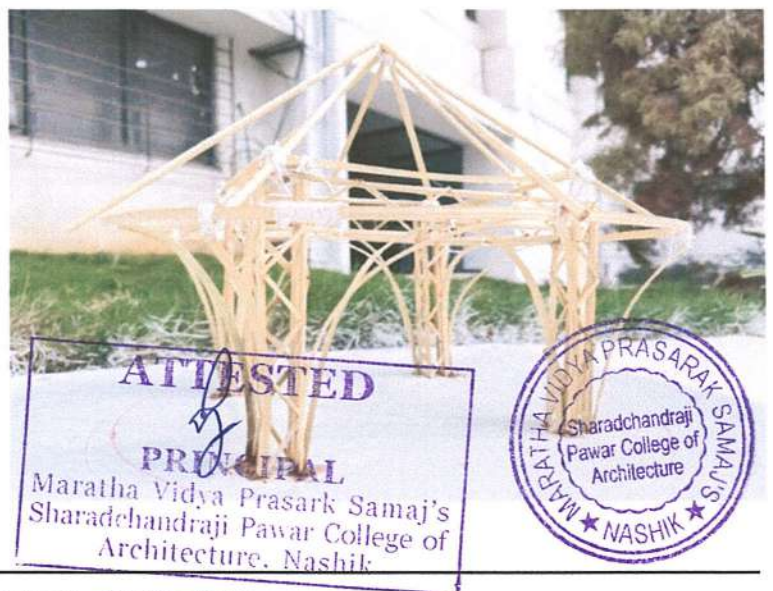
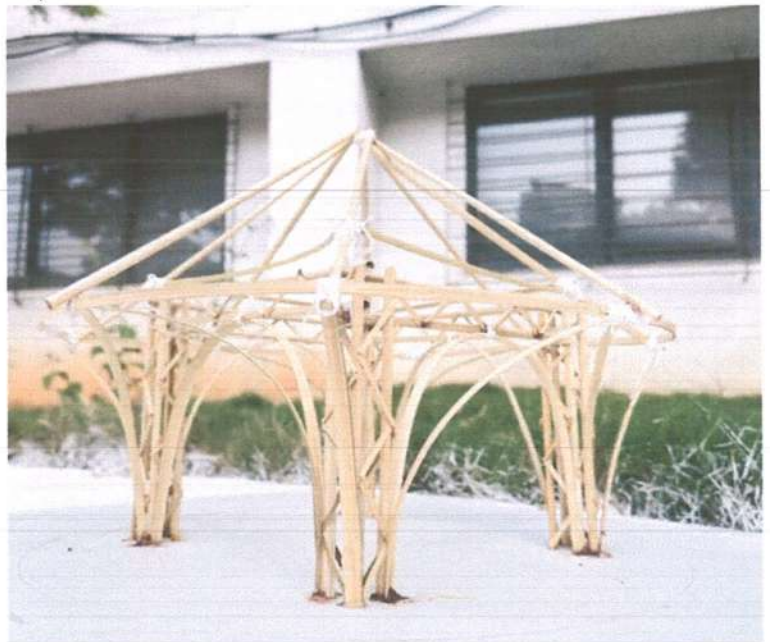
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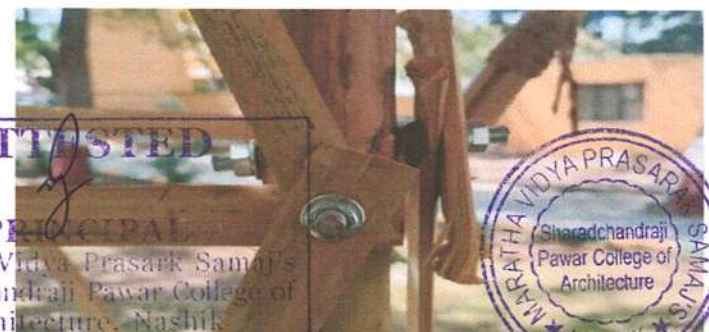
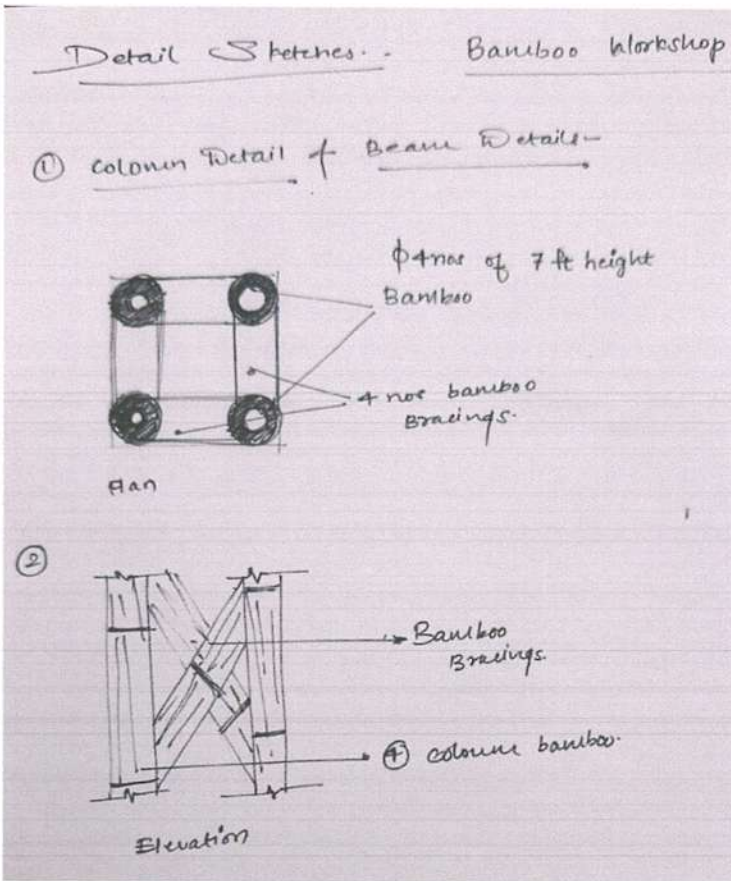
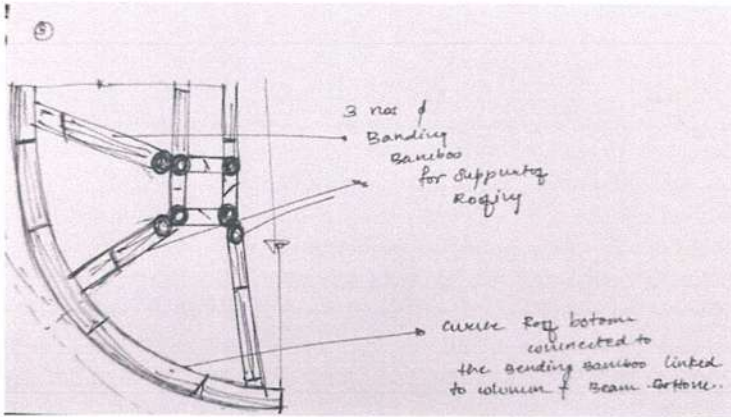
# Study Model

Day 2 - 27<sup>th</sup> February 2024





# Joinery details – (Gazebo) Kutir



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# Cutting & Polishing of Columns

Day 3 - 28<sup>th</sup> February 2024

- On the third day of our workshop, we focused on beginning the actual construction of the bamboo structure, particularly by working on making the bamboo columns and preparing them for use.
- Here's how the day unfolded:
  - 1. Preparation:** Before starting the construction process, everyone organized the bamboo poles and other necessary materials and tools. This included selecting suitable bamboo poles of the required length and diameter for the columns and ensuring that cutting and polishing tools are available.
  - 2. Cutting Bamboo Poles & Polishing:** We have measured and marked the bamboo poles to the desired length for the columns. Using saws or other cutting tools, everyone then carefully cut the bamboo poles to size, ensuring precision and accuracy. After cutting the bamboo poles to the desired length, everyone was engaged in the process of polishing the columns. This involved removing any rough edges, splinters, or irregularities from the cut ends of the bamboo poles using sandpaper or other smoothing tools.
  - 3. Safety Measures:** Safety was been a priority throughout the construction process. Participants were instructed on how to safely handle cutting tools and bamboo poles to prevent accidents or injuries. Throughout the cutting and polishing process everyone had for kept tab on uniformity in size, smoothness of the surfaces, and structural integrity of the bamboo poles.
- By focusing on making the bamboo columns and ensuring they are properly cut and polished, we have laid the foundation for the construction of the bamboo structure. This hands-on experience allows us to develop practical skills and gain a deeper understanding of working with bamboo as a building material.

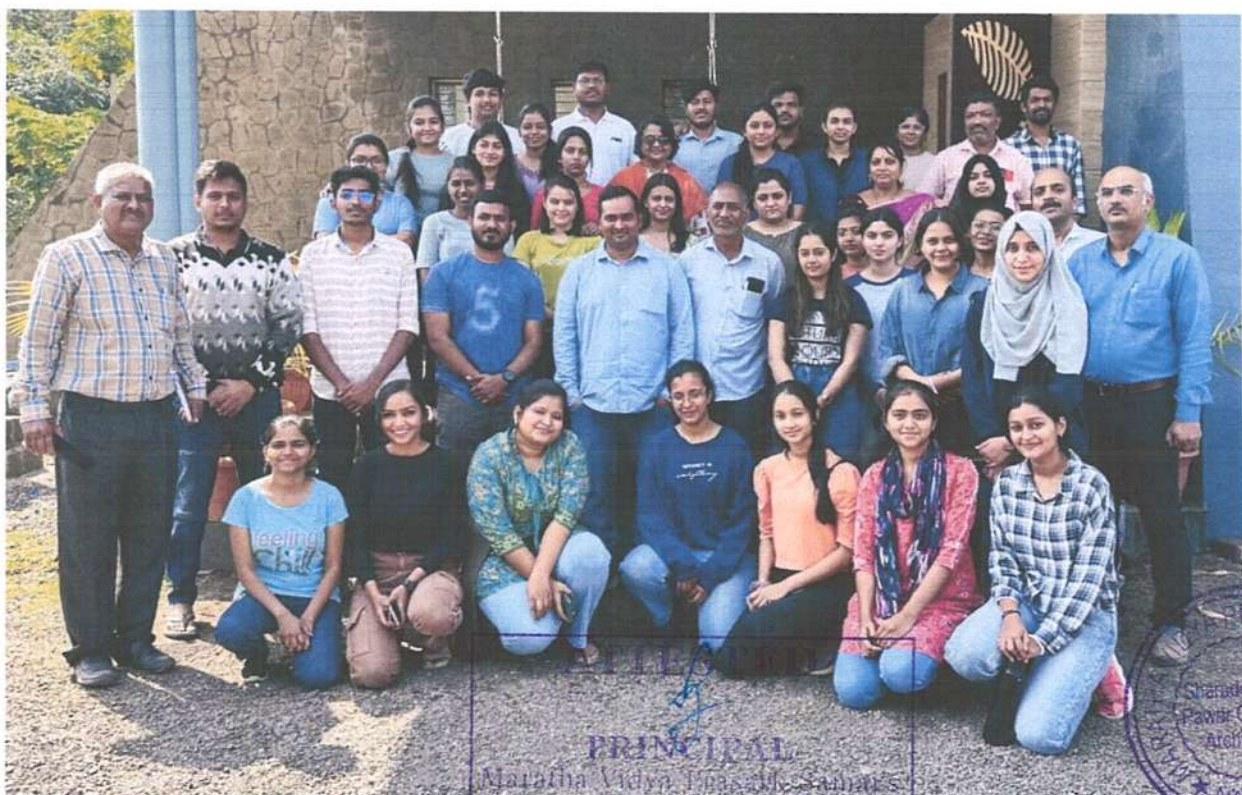


# Site Visit to Lakhalgaoon

Day 4 - 29<sup>th</sup> february 2024

## To Shri. Prashant Date's Bamboo Farm

- Day 4 of workshop was an enriching experience, especially with the site visit to Lakhalgaoon and the opportunity to meet Mr. Prashant Atmaram Date.
- Here's a summary of the key highlights :
  - 1. Site Visit to Lakhalgaoon:** Participants had the chance to visit Lakhalgaoon, a village in Nashik, where we encountered a real-world setting conducive to learning about bamboo. Site visits offer invaluable practical insights that complement classroom teachings and theoretical knowledge.
  - 2. Meeting Mr. Prashant Atmaram Date:** Interacting with Mr. Prashant Atmaram Date provided participants with firsthand knowledge and expertise in bamboo cultivation and collection. Learning from practitioners and experts in the field is instrumental in gaining a deeper understanding of bamboo species and their applications.
  - 3. Bamboo Species Collection:** we learned about the various bamboo species collected by Mr. Prashant over the years. Understanding the diversity of bamboo species is essential for Mr. Prashant likely shared insights into the significance and usage of each bamboo species, highlighting their cultural, economic, and environmental importance. Participants gained a broader perspective on the global relevance of bamboo and its role in sustainable development.
  - 4. Cross-Cultural Learning:** Exploring the usage of bamboo in different countries and industries offered participants a cross-cultural learning experience. Understanding how bamboo is utilized across various contexts enhances appreciation for its versatility and adaptability.
- Overall, the site visit and interaction with Mr. Prashant Atmaram Date provided us all with valuable knowledge and practical insights into bamboo cultivation, species diversity, and its multifaceted applications. This firsthand experience enriched our understanding and appreciation of bamboo as a sustainable and versatile material.



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# Beam Making

Day 5 - 1<sup>st</sup> March 2024

- Day 5 of our workshop seems to have been a continuation of the construction process, focusing on completing the bamboo columns with bracing and adding beams to the structure.
- Here's an overview of the activities that took place:
  1. **Continuation of Previous Day's Work:** We resumed the work left unfinished from the previous day, which involved cutting and polishing bamboo columns. Everyone also addressed any other pending tasks necessary for the construction process.
  2. **Construction of Columns with Bracing:** With the bamboo columns prepared, participants proceeded to assemble them with bracing elements. Bracing is essential for providing structural support and stability to the columns, especially in taller structures or those subjected to external forces.
  3. **Cutting & Making Beams:** Once the columns were completed, participants started making beams to connect and support columns by screwing.
  4. **Centerline Measuring and Marking:** Using measuring tapes, we measured and marked the centerline of each bamboo column. The centerline is typically marked along the length of the column, running from top to bottom for excavation of the foundation.
- By completing the columns with bracing and adding beams to the structure, we had made significant progress in constructing the bamboo framework. This hands-on experience provides valuable insights into the practical aspects of bamboo construction and helped us to develop essential skills in structural assembly and project management.



# Excavation & Column Placement

Day 6 - 2<sup>nd</sup> March 2024

- On day 6 of our workshop, the focus shifted to excavating the foundation, completing the foundation work, and placing the columns on the marked centerlines established on the previous day.
- Here's how the day unfolded:
  - 1. Excavation of Foundation:** Labours started by excavating the foundation trenches along the marked centerlines of the bamboo structure.
  - 2. Foundation Finishing:** Once the trenches were excavated, we proceeded to prepare the foundation for the placement of the columns. This involved leveling the bottom of the trenches, compacting the soil, and adding a layer of gravel or concrete for stability and reinforcement.
  - 3. Placing & Securing Columns:** With the foundation prepared, we have carefully positioned the bamboo columns in their designated locations along the marked centerlines. Alignment and spacing are crucial during this step to ensure that the columns are properly positioned and securely anchored to the foundation. After placing the columns, we have secured them to the foundation using appropriate anchoring methods.
- By excavating the foundation trenches, finishing the foundation work, and placing the columns on the marked centerlines, everyone made significant progress in the construction of the bamboo structure. This hands-on experience criticality of centerline , alignments and right angular construction of columns.



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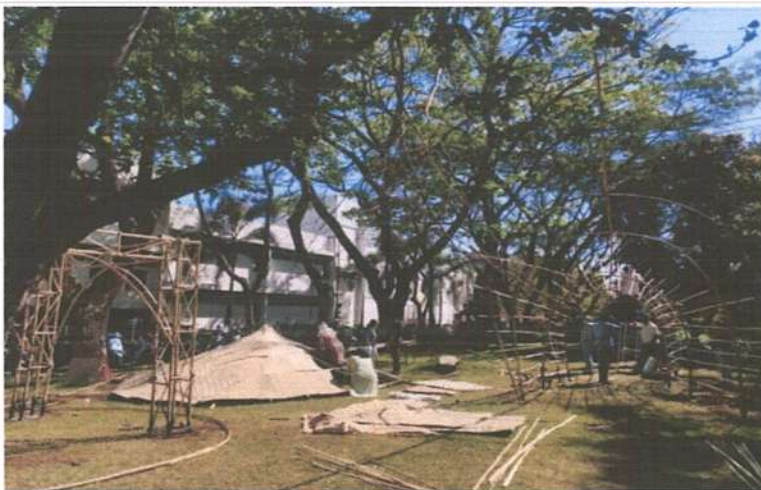
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# Roof Preparation

Day 7 - 3<sup>rd</sup> March 2024

- On day 7 of our workshop, we focused towards working on the roof structure of the bamboo construction.
- Here's how the day have unfolded:
  - 1. Roof Preparation:** We have started by preparing the necessary materials and tools for constructing the roof. This includes bamboo poles, Truss, Purlins and additional roofing materials such as thatch or bamboo mats.
  - 2. Working on Roof Parts:** We likely began by constructing individual parts of the roof, such as rafters or trusses. These components are essential for providing structural support and shape to the roof.
  - 3. Assembling the Conical Roof:** Once the individual roof parts were ready, everyone have assembled them to form the conical roof structure. This involved lifting and securing the roof components into place, ensuring proper alignment and stability.
  - 4. Simultaneous Work on Arches:** While working on the conical roof, few participants were simultaneously working on constructing arches near the columns.
- By working on different parts of the roof and simultaneously assembling the conical roof structure and arches, group made significant progress in completing the bamboo construction project. This hands-on experience provided valuable practical skills and insights into the construction of complex bamboo structures.



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# Roof Placement

Day 8- 4<sup>th</sup> March 2024

- On day 8 of our workshop, the focus likely shifted towards completing the roofing and finishing touches on the bamboo structure.
- Here's how the day has unfolded:
  - 1. Roofing Sheet Installation:** We have started by laying roofing chatai and other roofing materials on the completed roof structure. It involved carefully positioning and securing the roofing material to ensure proper coverage and securing and weatherproofing of the structure.
  - 2. Trimming and Finishing:** After laying the roofing sheets, participants trimmed any excess material and applied finishing touches to ensure a neat and finished appearance. This involved sealing joints, painting or staining the roofing material, and adding decorative elements as desired.
  - 3. Making External Arches:** While the roofing work is in progress, we have continued working on constructing external arches to enhance the aesthetic appeal of the structure. External arches serve both decorative and structural purposes, adding visual interest and providing additional support to the overall framework.
  - 4. Final Inspection:** Once the roofing sheets are installed and external arches are completed, participants and coordinators conducted a final inspection of the structure to ensure that all components are properly installed and finished according to the design specifications.
- By laying roofing sheets, constructing external arches, and finishing off the structure, everyone completed the bamboo construction project with a sense of accomplishment and pride. This hands-on experience provided valuable skills and knowledge that can be applied to future construction projects involving bamboo this was the most challenging stage of construction which we have completed by making extra team work and with the help of trainers.



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# Final Finishes & Inauguration

## Chief Guest

- Shri. Bhaskar Pawar ( Co-ordinator of Maharashtra Bamboo Development Centre)
- Shri. Navnath Bombale ( Member of Jan Shikshan Stansta, Nashik)



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Elective-II Sem VI (Group-3)

**'Bamboo construction and architectural practices training'**

In collaboration with

**Jan shikshan sansthan, Nashik**

**Bamboo Research & Training Centre, Chandrapur**

**MVPs's Sharadchandraji Pawar College of Architecture, Nashik**

26<sup>th</sup> February - 4<sup>th</sup> March 2024

**Mentor – Shri. Sandip Gadekar**

**Coordinator – Mrs. Jyoti Landge (Director JSS, Nashik)**

Shri. Sandip Shinde, Shri. Dattatray Bhoknal

Prof. Sheetal Chougule & Prof. Umesh Hirawe



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# Name of students

## DIV A

1. Sanchal Jadhav
2. Ganga Kalyani
3. Parth Asawa
4. Shrutika Ghodke
5. Shruti Agrahari
6. Shruti Datir
7. Sayali Dev
8. Jainesh Jain
9. Vivek Jagtap
10. Vasu Kalaria
11. Tejraj Bhandari

## DIV B

1. Mahek shaikh
2. Zunaira Shaikh
3. Rakshita Surana
4. Aishwarya Kalwar
5. Abhilasha Sonawane
6. Anklesha Modhe
7. Harshada Valvi
8. Vibhavari Patil
9. Arpit Patil



Team of Third Year B.Arch.

**Subject teacher-**  
**Prof.Samruddhi Mahale.**

**Co-Ordinator- Jan Shikshan Sanstha, Nashik-**  
**Mrs. Jyoti Landge.**



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**DAY 1, 26<sup>th</sup> Feb 2024.**

**Inauguration of bamboo workshop and process of design selection.**

The bamboo workshop was organized by Jan Shikshan Sanstha, Nashik with the collaboration of BRTC (Bamboo Research Training Centre) under the guidance of mentor Sandip Gadekar sir and Jyoti Landge ma'am at Maratha Vidya Prasarak Samaj's College of Architecture Nashik.

Later, the respective guide Mr. Sandip Gadekar sir presented the work done by them and the BRTC team and asked students to design Gazebo/Pavillion.

After that, the inauguration ceremony began by seeking the blessings of the goddess Saraswati. The ceremony was attended by MVP's chairman Mr. Balasaheb Kshirsagar, head of IIA, Nashik chapter Ar. Rohan Jadhav, LMC Member Sanket Dikhle, Aneesa Tadvil of Skill Development Centre, Nashik Jan Shikshan Sansthan's coordinator Jyoti Landge, principal of MVP's College of Architecture Dr. Prajakta Baste.

Later on, Mr. Balasaheb Kshirsagar addressed the students and was proud to announce that "this is the very first program which is happening in Maharashtra." Also, aspiring architects will get a lot of exposure to using bamboo as a construction material. The ceremony ended by honoring the guest.



**Balasaheb Kshirsagar (Chairman, MVP) and Mrs. Jyoti Landge (coordinator, Jan Shikshan Sanstha, Nashik) addressing the students.**

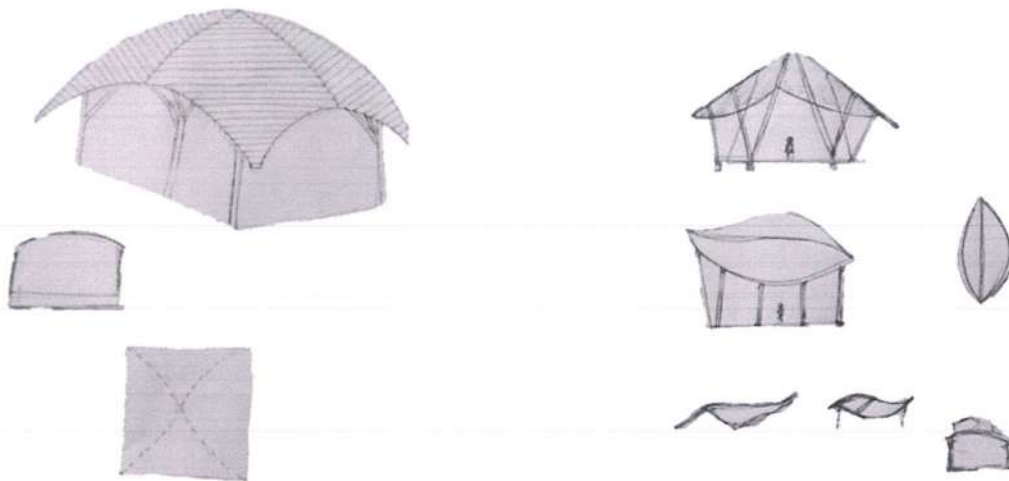
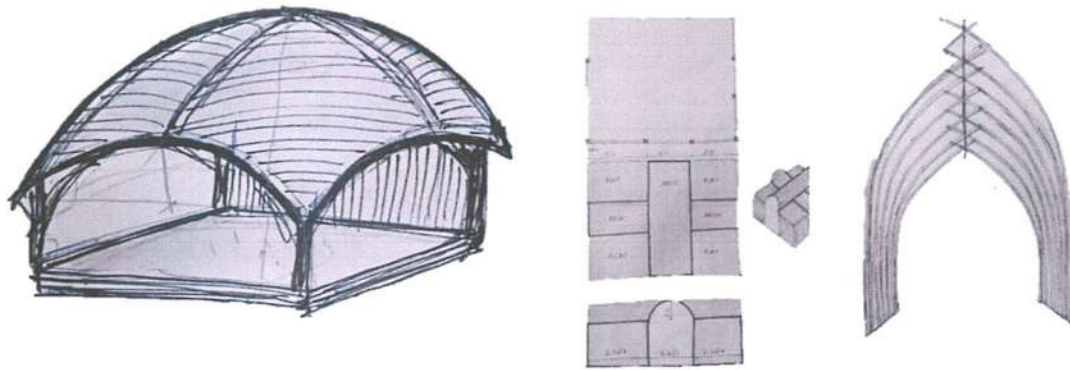


**Students and faculty members learning about bamboo versatility through the presentation by Sandeep Gadekar sir.**

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# Conceptual Sketches



Sketching out ideas.

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## DAY 2, 27<sup>th</sup> Feb 2024.

### Finalizing design and working on the small process model.

Day 2 began with finalizing 3 designs and refurbishing them. Our design was a gazebo with vaults and arches to define historical architecture. Working with bamboo was new and challenging for us yet we were thrilled to explore that material and get our hands on it. Initially, we got the chance to become acquainted with a variety of bamboo construction tools such as drill machines, hacksaws, chisels, etc.

We began our structure by doing a small hands-on model. We used different tools for cutting and screwing. We learned different joineries and techniques of bamboo. In conclusion, for Day 2 we finished the initial small model for our design. This process made us aware of the mistakes and improvements before the actual implementation of the final model.

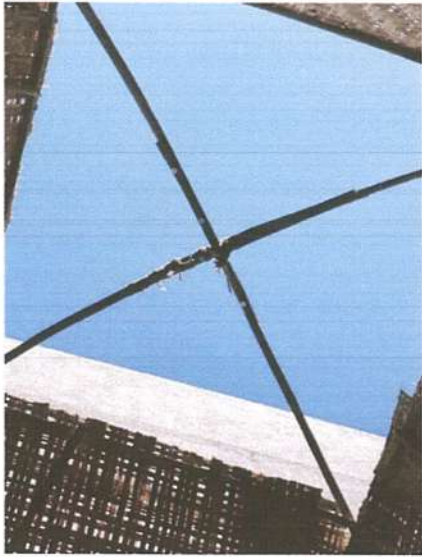


The design concept is about Arches and Vaults inspired by ancient/historical architecture.

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# Joinery details – Gazebo



Use of Lap joint with the help of nuts, bolts, and jute ropes.

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## DAY 3, 28<sup>th</sup> Feb 2024.

### The making of the structure.

It's day 3, the materials were bought on site and work began under the guidance of Sandeep Gadekar sir, we used chisels and a hammer to cut bamboo, and steel scrubbers to clean the bamboo surfaces for the framework of the structure. We also did arches-making during day 3. We did splice joinery in which we joined two 12ft bamboos for vault making. Initially, we used the grinder and the drill machine for nut bolt cutting. Afterward, we made holes into the bamboo pieces so that we could join them using nut bolts, and wiser, threading rods were also used in this part of the process. At last, the assembly was completed by joining the bamboo with the help of wiser and bolts through the holes.



Selection of Bamboo



Drilling holes with the help of a drill machine



Marking of bamboo using tape



Cutting of Bamboo using a hacksaw





**DAY 4, 29<sup>th</sup> Feb 2024.**

**Site Visit at Lakhalgaoon Nashik to study Bamboo species.**

Day 4 began with the site visit at **Mr. Prashant Date's** farm which is located at Lakhalgaoon, Nashik. Mr. Prashant Date is an engineer by profession but has a keen interest in bamboo farming he started this farming in the year 2016. He has passed through many obstacles during this process, but today he has successfully nurtured 96 species. Even the previous governor of Maharashtra Bhagat Singh Koshiyari visited his bamboo farmland.

He explained the process of bamboo treatment, and various types of bamboo species from all over the world. Whether it is China or Myanmar, he has planned to develop cottages and villas to connect people with nature. And develop farmland in Pune.

Later, we visited his residence, where we saw different sizes and products of bamboo. In the end, students extended their gratitude towards the BRTC organization and Jan Shikshan Sansthan.



**Site Visit at the residence of Shri. Prashant Date in Lakhalgaoon, Nashik.**

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## DAY 5, 1<sup>st</sup> March 2024.

### Marking on the site and executing the structure.

- **Foundation Plot Marking:** On the 5<sup>th</sup> day we marked the plot for the foundation of the structure.
- **Bamboo Preparation:** On the other hand, others helped in cutting the bamboo with the help of bamboo cutters, chisels, grinders, etc. for pillars/arches/vaults and created the framework by drilling and screwing them.
- **Center Line Marking:** Additionally, we carried out the center line marking with the help of thread, chalk powder, and bamboo nails.
- **Foundation Excavation and pit markings:** Using the center line marking we dug 1ft 8 inches for the foundation. Also, we made four 9'\*9' inches and also four 6'\*6' inches excavation pit markings.

As the fifth day concluded, the construction team completed pivotal tasks, including precise marking of the foundation plot, bamboo preparation for structural elements, center line marking with thread and chalk powder, and excavation work based on the marked guidelines. The concerted efforts of the team laid a solid groundwork for the upcoming phases of the construction project, showcasing effective coordination and progress in transforming the initial plans into tangible results.



Digging site with the help of L-shaped steel rods.



Centerline marking and excavation pits.

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## DAY 6, 2<sup>nd</sup> March 2024.

### Excavating foundation and casting of concrete.

On the 6<sup>th</sup> day, we marked the foundation and with the help of digging tools and the markings done on the previous day, we made the foundation for our structure.

- Dug holes on proper markings for accurate and firm framework placement.
- Placed the framework into appropriate holes.
- Poured concrete for a firm and steady base.
- completed base formation.
- Teammates led the charge to firmly place bamboo into the base, creating an overview of the framework.
- Checked quality control measures at each completion of a process.

Ensured no violations occurred due to lack of attention to tasks. In Conclusion, on the sixth day, the team marked and excavated the foundation, ensuring precision in hole placement. After placing the framework, concrete was poured for a stable base. Bamboo was then firmly positioned, creating an overview of the structure. Throughout each step, rigorous quality control measures were adhered to, showcasing the team's commitment to a solid and well-constructed project. With these foundational tasks completed, the project is set for further progress in the upcoming days.



Placing of columns and pouring concrete.

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**DAY 7, 3<sup>rd</sup> March 2024**

**Joining the Members.**

On the 7<sup>th</sup> day, after the concrete was set, we were ready to make the roof. We arranged and made all the preparations necessary for the roofing of the framework. Later we joined the remaining pieces of the frame for the roof. Once the framework was set with the help of bamboo mats, we started to place them according to the desired shape. Once all the tasks were completed, everyone inspected and ensured that the quality had been maintained and the framework was as per the design specifications.



**Placing of Arches in the excavation pits.**



**Joining the framework and giving temporary support to the framework for stability.**

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**DAY 8, 4<sup>th</sup> March 2024.**

**Finalizing of the structure.**

The final day of the workshop. We finalized our structure by adding skylight and railings for aesthetics.

- **Roofing sheet installation:** Day 8 began with installing with remaining bamboo roofing sheets with the help of nuts and bolts.
- **Finishing:** We finished the structure by drilling holes near the nodes and spraying non-termite spray to increase the life of the bamboo.
- **Adding railings:** To top it up, we added the railings made out of bamboo at the height of 2 ft from ground level at every side.
- **Final Inspection:** Once, every part of the gazebo was attached, all that left was to inspect the structure. We checked whether the structure was fixed at the base properly so that it wouldn't move during heavy winds. Also, we ensured its safety by smoothening out the surfaces of nails.



**Fitting of bamboo mats for roofing.**

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### Conclusion of Training workshop.

The program was concluded by a vote of thanks. This program was attended by Dr. Sampai Kaie (principal of Deoiaii Camp College), Mr. Bhaskar Pawar (coordinator of Maharashtra Bamboo Development Centre), Mrs. Jyoti Landge (coordinator of Jan Shikshan Sansthan, Nashik), Dr. Prajakta Baste (principal of MVP's college of architecture Nashik), Mr. Sandeep Gadekar (bamboo coach), Mr. Prashant Date (founder of bamboo next-LLP), Mr. Patwardhan (principal of diploma college of agriculture ) Ar. Sheetal Chougule, Ar. Umesh Hirwe (professors of MVP's COA Nashik), Mr. Sandeep Shine (assistant of jan shikshan sanstha ), Mr. Dattatray Bhokavle.

At last, students were grateful for this entire program and gave their valuable feedback. The program ended with energy and a vision of tomorrow within the aspiring architects.

### Learnings:

- Versatility of bamboo.
- importance of bamboo in the construction industry.
- Exploring traditional materials and techniques.
- Working in feet and inches for professional practice.
- Importance of teamwork.



Team of Third year B.Arch. with guests of Honor.

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## MVPS's SP College of Architecture

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<b>Name of Program:</b>	F. Y. B. Arch.
<b>Name of Course:</b>	Workshop- II
<b>Title of Assignment:</b>	Timber Joinery (Integration with BCM-I)
<b>Teaching methodology Adopted:</b>	<b>PARTICIPATIVE LEARNING</b>
<b>Name of the faculty:</b>	<b>Prof. Sankalp G. Bagul Prof. Levant G. Gavande</b>
<b>Academic Year:</b>	<b>2023-24 Sem: II</b>

<b>Objectives</b>	<ul style="list-style-type: none"><li>To understand the principles and techniques of <b>timber joinery</b> and various types of joints.</li><li>To learn the basics of <b>carpentry</b>, including framing, finish work, and cabinetmaking.</li><li>To develop practical skills using essential <b>tools</b> and understand the importance of <b>strength, aesthetics, and sustainability</b> in woodworking</li></ul>
<b>Date &amp; Duration</b>	20/03/2024 & 27/03/2024(3+3= 6 hrs)
<b>Venue</b>	MVPS SP. College of Architecture Nashik
<b>Student Attended</b>	First Year B. Arch.
<b>No of Students Present</b>	38 (A Div.), 38 (B Div.)
<b>Brief about the Program (Activity/Event)</b>	<ul style="list-style-type: none"><li>The timber joinery assignment focuses on understanding key joints like mortise and tenon, dovetail, and butt joints. It requires demonstrating practical skills in creating these joints with precision and using the appropriate tools. The assignment emphasizes the importance of strength, durability, and craftsmanship in woodworking.</li></ul>
<b>Students Outcome/Works example</b>	<ul style="list-style-type: none"><li>Students will create different types of timber joints, such as mortise and tenon and dovetail. They will test the strength and durability of these joints. Finally, students will design and build a small wooden project using these joinery techniques.</li></ul>

Program in-charge

Approved by  
(Committee Chairperson)

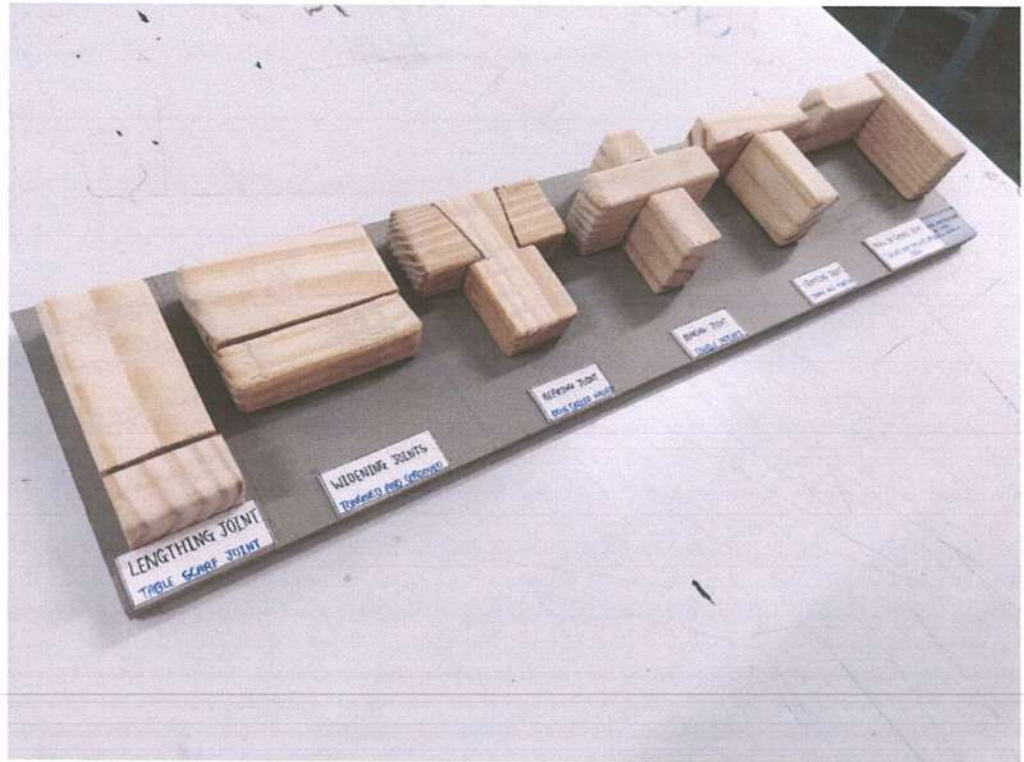
  
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## Structural model making

Academic Year : 2023-24

Semester : II

<b>Year</b>	First Year B.Arch.
<b>Subject Name</b>	Fundamental of Architecture
<b>Subject Code</b>	1201915
<b>Teaching Methodology Adopted</b>	Participatory
<b>Name of the Faculty</b>	Purva Shah, Ankita Nikam, Radhika Bhattad, Shreya Khare
<b>Objective</b>	To explore structural properties of different materials To make students understand the structural limitations of different materials through model making To challenge their creative imagination to stretch material limitations.
<b>Date &amp; Duration of Activity</b>	01/01/2024 – 4 hrs
<b>Venue</b>	First year studio, Mezzanine.
<b>No of Students Present</b>	Div A - 38 & Div B - 41
<b>Photograph/Video Available</b>	Yes / No (If Yes, attach geo-tag photographs)

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<p><b>Brief about the Program (Activity/Event)</b></p>	<p>Students were introduced to various structural systems and their basic loading conditions and load transfer mechanisms through a lecture. Further they were given different structural loading conditions like</p> <ol style="list-style-type: none"><li>1. Longest possible cantilever with matchsticks and a4 size paper</li><li>2. Maximum weight taking structure with a4 size paper</li><li>3. tallest freestanding structure with matchsticks</li><li>4. Maximum possible span with matchsticks</li></ol> <p>Students were given specific materials for specific tasks and students innovatively explored the material properties to build the structures in groups. Each group competed for the stability and strength of their structure was tested by TOS teachers.</p>
<p><b>Remarks</b></p>	<p>Such Competitive studios that challenge student's imagination transcend the idea of structural systems effectively</p>

Purva Shah

**Faculty in-charge**

Arpita Bhatt

**Approved by (IQAC)**





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## STUDENTS WORK:

1) Name of Student : Harshal Patil and group



Maximum weight taking structure from A4 size paper

1) Name of Student : Tejas Aher and group



Maximum weight taking structure from A4 size paper being tested by students

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Students team, faculty members and TOS team testing the load carrying capacity



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Name of Program:	F. Y. B. Arch.
Name of Course:	Workshop- II
Title of Assignment:	Truss (Integration with BCM-II)
Teaching methodology Adopted:	<b>PARTICIPATIVE LEARNING</b>
Name of the faculty:	<b>Prof. Sankalp G. Bagul Prof. Levant G. Gavande</b>
Academic Year:	<b>2023-24 Sem: II</b>

<b>Objectives</b>	<p>To understand the basic <b>concepts of trusses</b> and their role in structural engineering.</p> <p>To learn how to design and <b>construct a truss model</b> using appropriate materials.</p> <p>To develop hands-on skills in assembling a <b>structural model</b> and understanding the forces acting on it.</p>
<b>Date &amp; Duration</b>	08/05/2024 & 15/05/2024(3+3= 6 hrs)
<b>Venue</b>	MVPS SP. College of Architecture Nashik
<b>Student Attended</b>	First Year B. Arch.
<b>No of Students Present</b>	38 (A Div.), 38 (B Div.)
<b>Brief about the Program (Activity/Event)</b>	<ul style="list-style-type: none"><li>The <b>Queen and King Post Truss Model Making</b> assignment involves building small models of both trusses. The <b>Queen Post Truss</b> uses two vertical posts and is for longer spans, while the <b>King Post Truss</b> has one central post for shorter spans. Students will learn about <b>structural design</b> and <b>load distribution</b>. The task helps apply these concepts through hands-on building.</li></ul>
<b>Students Outcome/Works example</b>	<ul style="list-style-type: none"><li>Students will learn to <b>construct accurate Queen and King Post truss models</b>. They will understand <b>load distribution</b> and how each truss supports different spans. Students will apply <b>structural principles</b> to create stable models. They will also develop skills in <b>measuring, assembling</b>, and ensuring the strength of the structures.</li></ul>

Program in-charge

Approved by  
(Committee Chairperson)

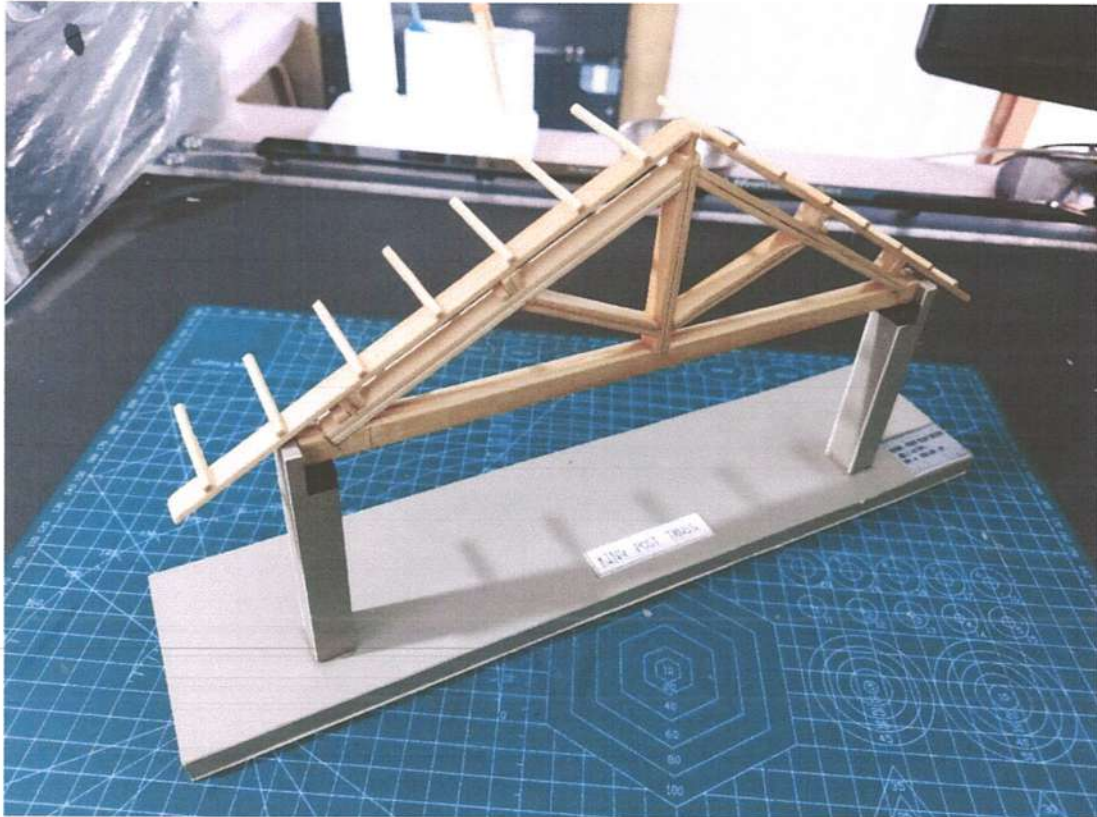
  
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## Bachelor of Design



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<b>BEST PRACTICE - 2 : Hands on Workshop</b>			
<b>Bachelor of Design</b>			
<b>A.Y. Year</b>	<b>Sr.no.</b>	<b>Date</b>	<b>Event</b>
	1	26 <sup>th</sup> – 27 <sup>th</sup> July 2023	Video production of Monolog- Write, Compose & Shoot
	2	4 <sup>th</sup> – 6 <sup>th</sup> August 2023	Workshop on Abstraction
	3	13 TH – 17 <sup>TH</sup> September 2023	Workshop on Fountain pen History and Design
	4	15 <sup>th</sup> -17 <sup>th</sup> September 2023	Workshop on Form, Space and Order
	5	22 <sup>nd</sup> -24 <sup>th</sup> September 2023	Workshop on Biomorphism
	6	13 <sup>th</sup> – 15 <sup>th</sup> October 2023	Workshop on Form Manipulation
	7	29 <sup>th</sup> October 2023, 6 <sup>th</sup> December 2023, 13 <sup>th</sup> December 2023	Costume making using newspaper
	8	14 <sup>th</sup> – 16 <sup>th</sup> March 2024	Colours in Design
	9	3 <sup>rd</sup> – 5 <sup>th</sup> April 2024	Hands on workshop to understand FRP as material and to explore its use in Set design
2023-24	10	3- 6 <sup>th</sup> April 2024	Hands on Workshop to understand bamboo as a sustainable material and to explore its use in interior, product and furniture design