



MVPS'S COLLEGE OF ARCHITECTURE

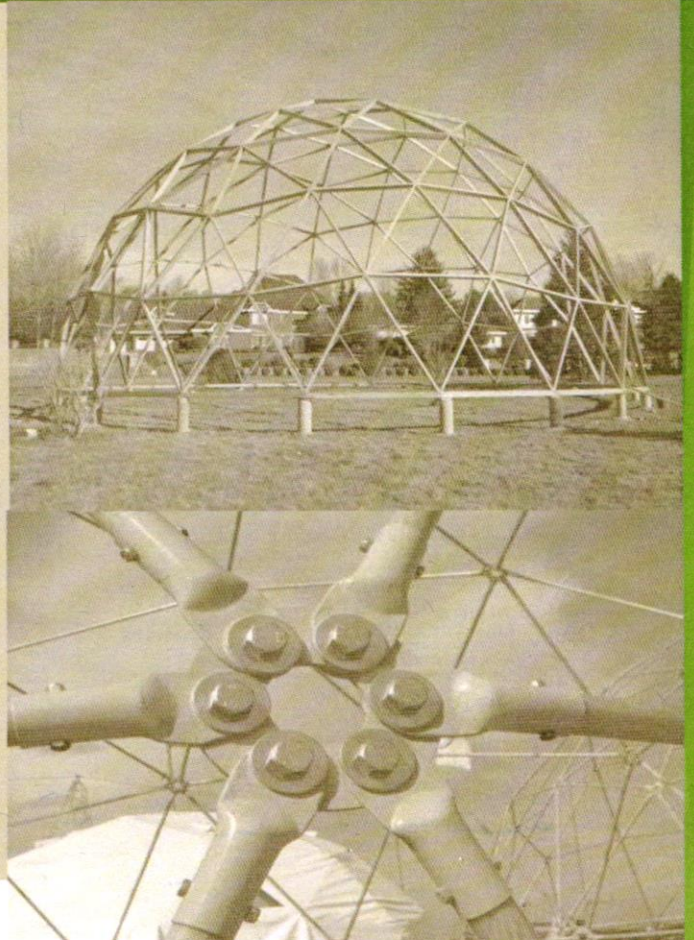
# CERTIFICATE COURSE ON BAMBOO - GEODESIC DOME

From 26<sup>th</sup> to 29<sup>th</sup> Dec 2018

Exclusively for Third Year B.Arch Students

## COURSE OBJECTIVES :

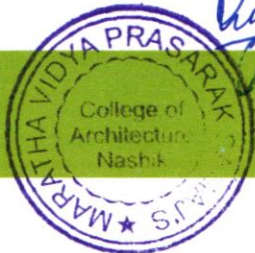
- To understand bamboo as a material, its application, uses, advantages
- To learn bamboo joinery details
- To gain practical knowledge of bamboo as construction material by hands on working.
- To understand bamboo as a sustainable building material.
- Erection of 6.0 m diameter Geodesic Dome



## Expert faculty:

1. **Ar. Jayesh Apte** –(Principal architect ) **Team leader**-Practicing architect, extensively worked on bamboo structure and furniture.
2. **Ms. Shilpa Mendadkar**- (team member) – experts and working with bamboo structures.
3. **Mr. Ninad Sonawane**- (team Member)- expert on bamboo and working on geodesic dome
4. **Mr. Rajendra Jangid (Carpenter)**- expert and help in bamboo joinery

**Co -ordinator:**  
Prof. Arpita Bhatt



Duration : 26<sup>th</sup> to 29<sup>th</sup> Dec 2018 , 8:00 am to 4:00 pm  
Venue : MVPS'S COLLEGE OF ARCHITECTURE, NASHIK



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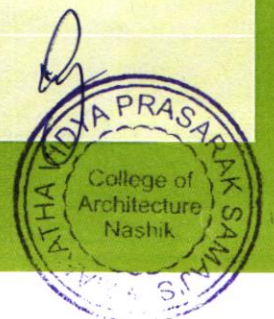
# CERTIFICATE COURSE ON BAMBOO - GEODESIC DOME

From 26<sup>th</sup> to 29<sup>th</sup> Dec 2018

Exclusively for Third Year B.Arch Students

DAY 1		
SESSION	TYPE	DETAILS
MORNING 9.00 TO 10.30	THEORY	KNOW YOUR MATERIAL BAMBOO-STRENGTHS, WEAKNESSES BAMBOO AS A CONSTRUCTION MATERIAL DO'S AND DON'T'S WITH BAMBOO BAMBOO JOINERIES BAMBOO SITES, WORLD REVIEW
AFTERNOON 11.00 TO 4.00	PRACTICAL	EXPLORING MATERIAL MAKING JOINTS UNDERSTAND TREATMENTS STUDY USE OF TOOLS
DAY 2		
FULL DAY 8.00 TO 4.00	PRACTICAL	ERECTION OF 6.00 M GEODESIC DOME WITH READY BAMBOO STICKS, HANDS ON EXPERIENCE WITH COMPLETED ITEM
DAY 3		
FULL DAY 8.00 TO 4.00	PRACTICAL	WORKING ON DOME COMPLETION EXPLORE BAMBOO FURNITURE MAKING, SOFA/SEATING
DAY 4		
FULL DAY 8.00 TO 4.00	PRACTICAL	WORKING ON DOME COMPLETION STUDENTS WILL DISCUSS THEIR OWN INTERPRETATIONS BASED ON WORKING

Duration : 26<sup>th</sup> to 29<sup>th</sup> Dec 2018, , 8:00 am to 4:00 pm  
Venue : MVPS'S COLLEGE OF ARCHITECTURE, NASHIK





## MVPS's College of Architecture

Udhaji Maratha Boarding Campus, off Gangapur Road, Nashik

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

Co ordinator – Prof. Arpita Bhat  
Workshop conductor – Ar. Jayesh Apte and team  
Dates - 26<sup>th</sup>, 27<sup>th</sup>, 28<sup>th</sup>, 29<sup>th</sup> December 2018  
Timings - 8.00 a.m. to 4.00 p.m.

### INTRODUCTION –

The geodesic dome of bamboo to be erected with the help of experts in the field. Students are expected to get hands on experience of the tools involved in making joinery along with creating the spatial structure of around 7 m dia. Teams of students are supposed to come up with their own design ideas at the conclusion of the workshop, the models of which shall be displayed at annual exhibition to be held on 2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> January 2019.

### OBJECTIVES –

- To understand bamboo as a material, its application, uses, advantages and joinery details
- To gain practical knowledge of bamboo as construction material through hands on working.
- To sensitize students towards bamboo as a sustainable building material.

### SCHEDULE WITH CURRICULUM DETAILS -

TIME	ACTIVITY	CONTENT	FACULTY
<b>DAY 1 – 26<sup>TH</sup> DECEMBER 2018 - WEDNESDAY</b>			
8.00a.m - 10.30a.m.	Introduction and presentation to students in L4	Bamboo as a material, strengths, weaknesses, Do's and Don'ts, Bamboo joineries, Bamboo sites, World review	Bhat A., Rajole M., Tejashri T., Mantri B., Bhargav R., Patil G., Malani N.
10.30a.m. - 11.00a.m.		Break	
11.30a.m. – 4.00p.m.	Onsite Exploration (Hands on working)	Exploring material, making joints, understand treatments, use of tools	
<b>DAY 2 – 27<sup>TH</sup> DECEMBER 2018 - THURSDAY</b>			
8.00a.m - 11.00a.m.	Onsite installation (Hands on working)	Preparation of elements for Geodesic Dome erection	Bhat A., Rajole M., Tejashri T., Mantri B.,
11.00a.m. - 11.30a.m.		Break	





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11.30a.m. – 4.00p.m.	Onsite installation (Hands on working)	Preparation of elements for Geodesic Dome erection	Bhargav R., Patil G., Malani N.
<b>DAY 3 – 28<sup>TH</sup> DECEMBER 2018 - FRIDAY</b>			
8.00a.m - 11.00a.m.	Onsite installation (Hands on working)	Explore bamboo furniture making, sofa/seating etc.	Bhat A., Rajole M., Tejashri T., Mantri B., Bhargav R., Patil G., Malani N.
11.00a.m. - 11.30a.m.	Break		
11.30a.m. – 4.00p.m.	Onsite installation (Hands on working)	Working on Dome erection	
<b>DAY 4 – 29<sup>TH</sup> DECEMBER 2018 - SATURDAY</b>			
8.00a.m - 11.00a.m.	Onsite installation (Hands on working)	Working on Dome erection	Bhat A., Rajole M., Tejashri T., Mantri B., Bhargav R., Patil G., Malani N.
11.00a.m. - 11.30a.m.	Break		
11.30a.m. – 4.00p.m.	Discussion session	Working on Dome erection. Students to discuss their own experience and interpretation on the complete work.	

- Attendance of all the students is compulsory
- Groups of students will be formed for continuous working
- Teachers will be allotted per group for effective working.

### ASSESSMENT PROCEDURE –

Assessment will be done in following stages.

Stage	Expected Output	Max marks
Stage 1	Portfolio on Bamboo Theory – Based on the presentation shown in first session, students need to submit the portfolio on bamboo as a construction material.	10
Stage 2	Various bamboo joineries worked out during the practical session (In groups)	10
Stage 3	Final dome erection (As a class)	10
<b>Total</b>		<b>30</b>

**Note : Certificates will be awarded to the students securing minimum 50% marks.**

