

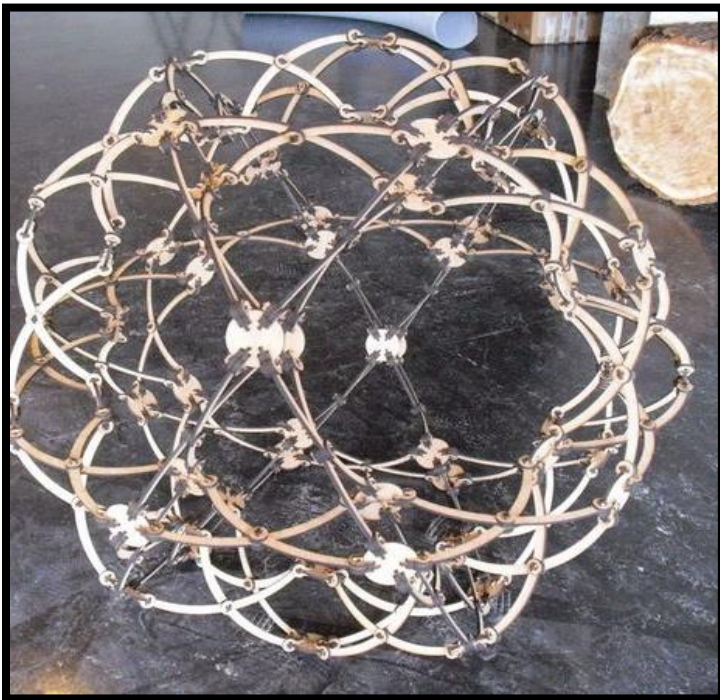
DESIGN HUB

INDIA

PRESENTS

SKILL LABS offered FOR
ARCHITECTURE AND DESIGN
CURRICULUM





DEPLOYABLE STRUCTURES

OUTLINE:

The deployable structures study and application is becoming more popular, new architectural applications are required for adaptive structures, that can satisfy the current needs of change and adaptability. Today there are a variety of proposals and geometric scale models that have promoted these structures as an alternative flexible, lightweight and transformable. **DH** aims to involve academia understanding of deployable structures through experimental workshop to generate new approaches to architectural design beyond the traditional static architecture. The workshop aims and deployable structures, introduce students to the transformable architecture, promoting alternative design from folding structures

LEARNING OUTCOME:

- Live Installations around the campus.
 - Hands on learning
 - Model generation



GEODESIC DOME

OUTLINE:

Learn how to design, construct and erect your own Geodesic Dome with steel tubes, wood, or recycled materials and use it for any of the following:

- Extra summer room, storage area or garage
- greenhouse or Aquaponics
- studio (yoga, fine arts, dance, meditation, etc.)
- Workshop
- shop, kiosk, pavilion

OUTCOME:

- Live Installations around the campus.
 - Hands on learning
 - Model generation



PARAMETRIC DESIGN

OUTLINE:

The workshop includes a general introduction to Parametric Design and Fabrication, lectures about Architecture Theory and Non- Linear Design Strategies, and finally, fabrication using the professional facilities. A central part of the learning experience is to take a design all steps of the process – from idea to fabrication.

Parametric modeling, Explicit modeling, Interoperability, Simulation and analysis, Visualization, Automatization, Digital fabrication

OUTCOME:

- Live size prototype
- Hands on learning
- Model generation



TENSILE STRUCTURES

OUTLINE:

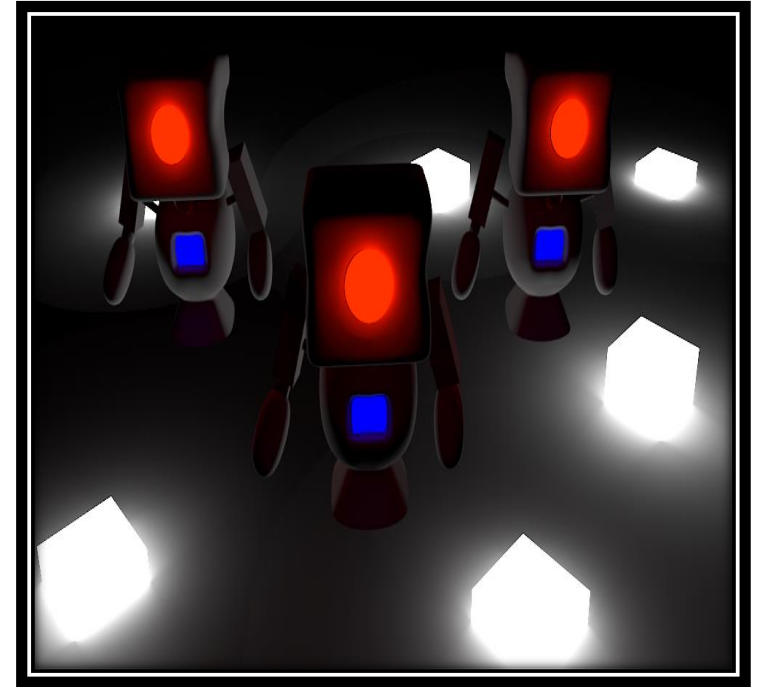
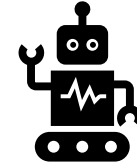
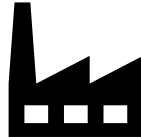
To help students understand the structural concepts behind the tensile structures, a hands-on workshop will be organised. Students through exploring structural concepts installed a tensile structure in campus. Learn how to design, construct and erect your own tensile structure with steel tubes, wood, or recycled materials .

- gathering space
- studio (yoga, fine arts, dance, meditation, etc.)

-Workshop

OUTCOME:

- Live Installations around the campus.
 - Hands on learning
 - Model generation
 - Usable structures



ROBOTICS BASICS ON LIGHTING AND DYNAMIC STRUCTURES

OUTLINE:

Learn all the basics about robotics in architecture as lighting elements ,sensors,motion controls,automatic lighting ,etc.

OUTCOME:

- Live Installations around the campus.
 - Hands on learning
 - Model generation



PAPERTUBE

OUTLINE: Form findings by physical modelling, Exploring design possibilities, able to create lot of useful utilities.

OUTCOME: Live installation around the campus, live size prototype, hands on learning.



CARPENTARY JOINTS

OUTLINE: Students are able to learn the basics about wood joineries, able to feel the materials in their hand.

OUTCOME: Physical wood models, got to know about tools, furnitures, HANDS ON WORKSHOP



FABRICATION IN METAL

OUTLINE: The creation of metal structures by cutting, bending and assembling processes. It is a value-added process involving the creation of machines, parts, and structures from various raw materials.

OUTCOME: HANDS ON WORKSHOP, METAL FURNITURE, LIVE PROTOTYPING, HANDLINE FABRICATION INSTRUMENTS.

FURNITURE



BAMBOO

- **OUTLINE:** Follows a detailed curriculum taking you through the whole life cycle of bamboo, from sustainable forestry to design and construction. Each topic is supported by both theoretical lectures and hands on workshops.
- **OUTCOME:** Live installation around the campus, hands on workshop, usable structures, hands on learning.



BRICK MASONRY

- **OUTCOME:** Fun, sweat, falling, stepping back up, in repeated courses to impart knowledge on the various types of arches, vault and dome. Each of the four walls held a different arch viz. segmental, corbelled, semi-circular and pointed.
- **OUTCOME:** Sit out areas, aesthetic element, hands on learning, live construction techniques in the campus.



PARAMETRIC BRICK

- **OUTLINE:** Parametric brick workshop is the inspiration for parametric design field, it increases the student interest towards PARA design.
- **OUTCOME:** Live construction techniques, hands on learning, façade designs.



EARTH WORKSHOP

- **OUTLINE:** The use of natural materials presents a wide range of possibilities. We try to make the design process as participatory as possible by working in collaboration with artists, sculptors and students. We organize hands-on workshops and training for interested individuals and institutions in sustainable building practices of **adobe, cob, wattle and daub**.
- **OUTCOME:** Live construction techniques, hands on learning, sustainable development.



Greetings from DESIGN HUB!

We are a group of Architects -academicians and professionals with several years of hands-on experience in design teaching using practical exercises. We believe in the concept of “LEARNING BY DOING” . We cater to the Extracurricular & Co-curricular aspirations of Architecture & Design students by providing them a wide variety of educational projects in the form of workshops, Field trips, etc. which supplement Architectural education in a holistic manner.

Prominent Architects & Institutes associated:

Ar. Ramesh N. – Designer of Guhantara

Ar. Sunil Kumar – Specialist in Eco-friendly and Sustainable construction techniques.

Ar. Bharathi Prem – Sustainable & Green Buildings

Ar.

Nirmithi Kendra, Mangalore – Institution for fostering local building skills and materials.



LIFE IS THE BIGGEST **WORKSHOP**

THANK YOU 😊

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