JBR
ARCHITECTURE COLLEGE
HYDERABAD

Best Practice - I

1. Title of the Practice:

Grooming Future Architects for a Dynamic Industry.

2. Objectives of the Practice

- Familiarize students with Latest construction materials and construction techniques, Sustainable Practices and Construction Techniques in Heritage Structures.
- Prepare students for the ever-changing field of Architecture
- Encourage students to think critically about the future of Architecture and Construction

The underlying principles or concepts of this best practice are:

- The importance of staying up-to-date on the latest trends in construction
- The importance of knowing Architectural Heritage and considering Sustainable Construction Practices.
- The need to prepare students for the challenges of the future
- The importance of critical thinking in architecture

3. The Context

Architecture is an ever-changing field. New construction materials and techniques are constantly being developed, Old Sustainable Practices are being revived and it is important for students to be aware of these changes to make Intelligent decisions towards designing Environment Friendly and Culturally encouraging Habitat. The field of architecture is facing a number of challenges, such as climate change and sustainability. These challenges are complex and require architects to think creatively and innovatively about how to design buildings that are both functional and environmentally friendly.

One of the biggest challenges facing architects is climate change. As the planet warms, architects will need to design buildings that can withstand more extreme weather events, such as hurricanes, floods, and droughts. They will also need to design buildings that are more energy-efficient, in order to reduce our reliance on fossil fuels. Another challenge facing architects is sustainability. Architects need to design buildings that are made from sustainable materials and that use resources efficiently. They also need to design buildings that can be easily recycled or reused at the end of their lifespan.

4. The Practice:

The practice of conducting Lectures, Heritage Walks and Industry/ Case Study Visits to familiarize students with Sustainable building practices, Modern construction materials and Construction techniques is an effective learning Method in the context of higher education. Generally, architecture students are not given the opportunity to learn about new materials and techniques until they are in their final year of study. JBR

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Architecture College is one of the few Institutions that provides students with this opportunity from the beginning of their studies.

The lectures and Industry/ Case Study visits are conducted by faculty in association with experts in the field of Architecture & Construction. The Lectures provide students with an overview of the latest trends in construction, Heritage Walks provide an opportunity to embrace Culture and Sustainable Building Practices, while the Industry Visits give students the opportunity to see these trends in action.

5. Evidence of Success

The evidence of success of this best practice is the positive feedback that students have given. Students have reported that the lectures and visits have helped them to better understand the field of architecture and to prepare for their future careers.

6. Problems Encountered and Resources Required

The main problem that has been encountered in implementing this best practice is the cost of bringing in experts to conduct the lectures/programs, traveling to various historically significant places across India. Additionally, it has been difficult to find industry partners who are willing to host students on visits.

The resources required / deployed to implement this best practice are:

- Funding to bring in experts to conduct the lectures and Visit various places across India.
- Partnerships with industry organizations to host students on visits.

7. Notes (Optional)

JBR Architecture College is committed to providing students with a high-quality education that prepares them for the challenges of the future. The best practice of conducting lectures and Industry/Heritage visits to familiarize students with new construction materials, construction techniques, Heritage structures and Sustainable building Practices is one way that the college is fulfilling this commitment.

- The best practice can be adapted to other institutions by reinforcing knowledge of the Faculty with appropriate development programs, finding experts in the field of construction who are willing to conduct lectures and by finding industry partners who are willing to host students on visits.
- The best practice can be improved by increasing the funding for bringing in experts and by increasing the number of industry partnerships.

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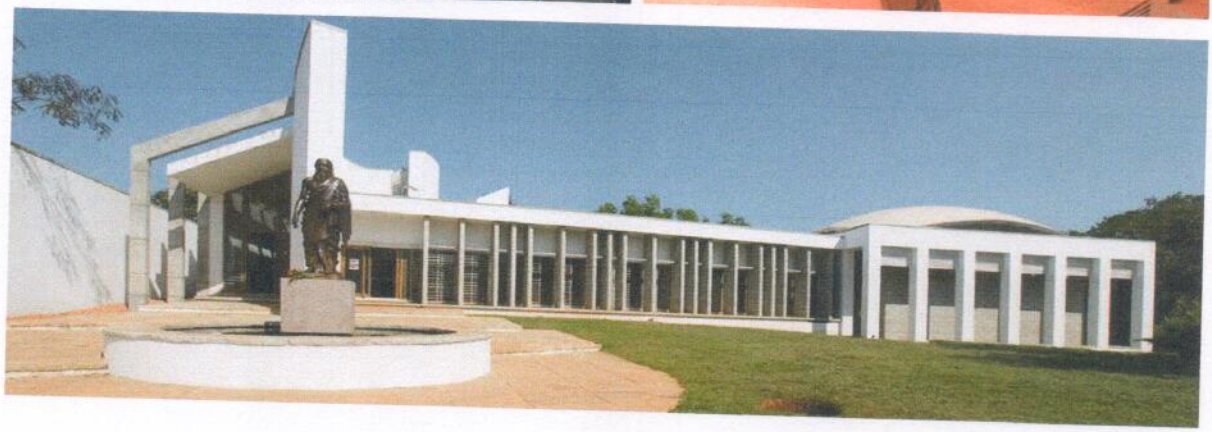
Auroville @ Tamil Nadu

Venue : Auroville, Chennai	Date/s : 24th Dec 2021

Auroville is an experimental International City .It's a collective experiment in human unity based on the revolutionary ideal view of Shri Aurobindo and his spiritual companion the Mother(Mirra Alfassa). Auroville is meant to be a universal town where men and women of all countries are able to live in peace and harmony . In the middle of the town is the "Matrimandir" ,which was conceived by Alfassa as " a symbol of the Divine's answer to man's aspiration for perfection " . Students of JBR Architecture visited all the important buildings of Auroville and were fascinated by their incredible architectural features. Innovative construction techniques are applied to shape energy-efficient dwelling units out of low cost building materials, achieve Spatial quality, Aesthetics for the Buildings.







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Geodesic Dome @ Bangalore

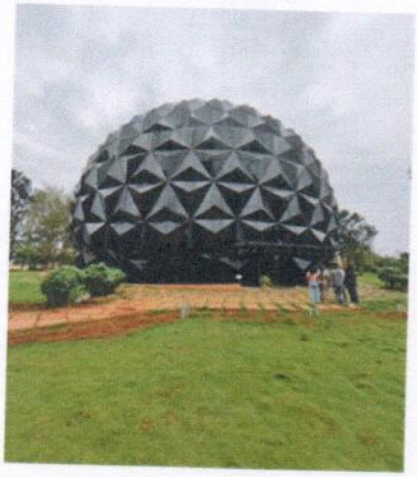
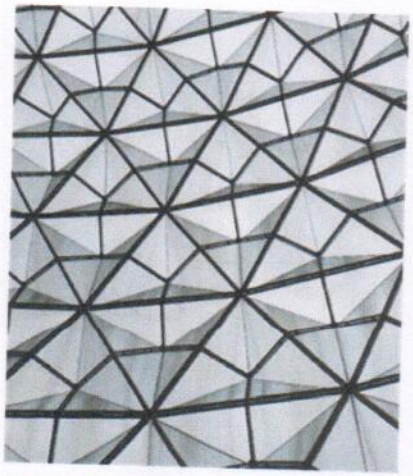
Venue : Tumkur, Banglore	Date/s : 12 th May 2022

A Geodesic dome is a hemispherical thin-shell structure (lattice-shell) based on a geodesic Polyhedron. The triangular elements of the dome are structurally rigid and distribute the Structural stress throughout the structure, making geodesic domes able to withstand very heavy Loads for their size. Geodesic domes are very efficient

Domes are aerodynamic structures, so they can withstand earthquakes and hurricanes without a problem (there is even a study about it). The distribution of weight across the dome is the most efficient you can think of. Stress is equally distributed along the entire structure.

In Tumkuru , SSIT college they have constructed a central library by introducing a geodesic dome. it took 6 years for them to complete the dome, i.e. the outer shell. The materials they have used is black tinted glass, complete steel structure for the frame and it is also called a single lattice structure .

Natural light has been playing an extensive role as it is a library . Because of the geodesic dome and the usage of glass there is a lot of scope for natural light coming into the building from 360 degrees. Few of the glass panes are operated through hydraulic to open and close for air circulation and proper ventilation. Rcc structure is divided into 2 sections one is stacking the books where the floor height is 2.5 m ht. Another section is the reading section where the height is 3.2 m ht.Our students got an opportunity to discuss with the faculty who is pursuing Phd on geodesic dome, it's a great learning experience for the students.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IKEA, HOME FURNITURE SHOW ROOM

Venue : Hyderabad	Date/s : 7th June 2022

JBR Architecture College Students' Visit to IKYA Home Furniture Warehouse

Introduction: In a unique initiative aimed at fostering a stronger connection between architecture and the furniture industry, JBR Architecture College has organized a visit for its students to the renowned IKYA Home Furniture Warehouse. This excursion seeks to provide students with valuable insights into the intricate relationship between architectural design and the practical implementation of furniture within residential and commercial spaces.

Exploring Design in the Real World: The visit to IKYA Home offers students the opportunity to witness firsthand how architectural concepts materialize in the realm of furniture design. From the selection of raw materials to the final production process, students can observe how design ideas evolve into tangible, functional pieces that enhance living and working environments.

Understanding Spatial Dynamics: Architectural design is inherently linked to spatial planning and functionality. By immersing themselves in the expansive layout of the furniture warehouse, students can gain a deeper understanding of spatial dynamics and how furniture contributes to the overall ambiance of a space. This experience allows them to appreciate the importance of harmony between architectural structures and the furnishings that occupy them.

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Innovations in Furniture Design: IKYA Home, known for its commitment to innovative design, showcases the latest trends and technologies in furniture manufacturing. Students can explore cutting-edge designs, materials, and manufacturing techniques, sparking inspiration for their own architectural projects. This exposure to contemporary furniture design helps bridge the gap between theoretical knowledge gained in the classroom and real-world applications.

Industry Collaboration Opportunities: The visit to IKYA Home provides a platform for students to network with professionals in the furniture industry. Interaction with designers, manufacturers, and industry experts can open doors to

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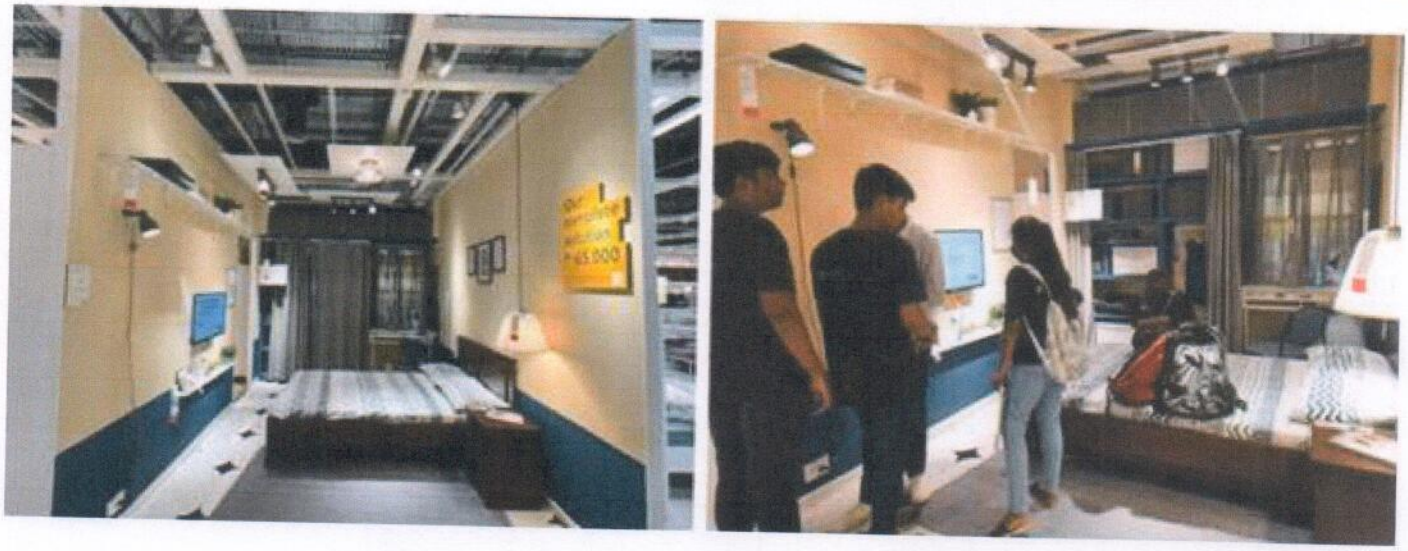
potential collaborations, internships, and future career opportunities. Building such connections enhances students' prospects for success in the dynamic and evolving field of architecture.

Promoting Sustainable Design: As sustainability becomes increasingly crucial in both architecture and furniture design, the warehouse visit allows students to explore IKYA Home's commitment to eco-friendly practices. Witnessing sustainable materials, production processes, and recyclable designs encourages students to incorporate environmentally conscious principles into their own architectural projects.

Conclusion: The collaboration between JBR Architecture College and IKYA Home Furniture Warehouse signifies a meaningful step in bridging the gap between architectural education and the furniture industry. By exposing students to the practical aspects of furniture design, spatial dynamics, and industry innovations, this initiative aims to empower the next generation of architects with a holistic understanding of the built environment. Through such immersive experiences, students are better equipped to contribute to the harmonious integration of architecture and interior design in the real world.



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Practical realities of the market and witnessed ongoing construction work

Venue: Private venture, Telangana state	Dates: March 07 2020

An initiative was undertaken to bridge the gap between the industry and architecture students. Students were taken to a private venture where they were exposed to the practical realities of the market and witnessed ongoing construction work. This immersive experience aimed to provide students with valuable insights into the real-world application of architectural principles and construction processes.

During the visit, students had the opportunity to interact with professionals from the industry, gaining firsthand knowledge of the challenges and dynamics involved in executing architectural projects. The exposure to a live construction site allowed them to observe the application of theoretical concepts in a practical setting.

This industry-oriented approach is designed to enhance the students' understanding, fostering a more comprehensive and practical perspective on architecture. Such initiatives play a crucial role in preparing students for the demands of the professional world and contribute to the development of well-rounded and industry-ready architects.

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Prefabricated Steel Roof Structures @ Hyderabad

Venue: Heartfulness Ashram - Kothur, RR Dt.	Dates: 25 th Jun 2019

Kanha Shanti Vanam in the outskirts of Hyderabad was specially designed for Bhandaras which would happen four times in a year each for approximately three days attracting almost 60,000 to 1,00,000 people. The new meditation Center was designed for this very purpose. The hall spans for 220m x 160m. This large span was covered by using a tensile fabric which created reflectivity helping to beat the heat coming from the sun without compromising the amount of daylight required inside the hall. The floor was done using radiant cooling which was used during the summertime. The capacity of the cooling was derived from the central plant which itself was distributing cooling to other areas. A lot of texture play between the brick and the stone was created. Round holes with the exposed brick structure were made to give the place a distinct look. The staircases leading to the first floor were made white to amalgamate the theme of the center with it. The staircases were made in such a way that they served as a seating arrangement in case of a rush.

Students of JBR Architecture College visited Ashram to study Prefabricated Large Span Structures / Roof systems as well as Construction technology of Indigenous People in Brick and Mud.Prefabricated Large Span Structures are structures that are built off-site and then transported to the construction site. They are often used for large, open spaces such as warehouses, stadiums, and airports.

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