



Industrial Visit Report 2024

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INTRODUCTION

Industrial Visit

An industrial visit is an educational tour organized for students or trainees to visit industries, factories, or organizations related to their field of study. The primary objective is to provide practical exposure to real-world work environments and processes, bridging the gap between theoretical knowledge and practical application.



The objectives of an industrial visit are to provide students or professionals with practical exposure and a deeper understanding of how industries operate. is to provide practical exposure to real-world industry operations, helping participants understand production processes, technologies, and workplace environments. It offers opportunities to interact with industry experts, explore career options, and gain insights into innovation, safety standards, and teamwork. The visit also enhances observation skills and report writing abilities, bridging the gap between theoretical knowledge and practical application.

Participants also gain valuable insights into workplace safety protocols, quality standards, and the importance of teamwork and collaboration in achieving organizational goals. For students exploring potential career paths, these visits can clarify industry expectations and open doors to networking opportunities, helping them align their skills and aspirations with market demands

Additionally, industrial visits enhance critical observation and analytical skills, enabling participants to identify key takeaways and effectively document their experiences. Writing reports post-visit helps consolidate learning, refine communication skills, and develop an organized approach to professional tasks.

ITINERARY

Our industrial visit included trips to two destinations: Bangalore and Pondicherry.

Day-Date	Place	Activity	Food & Accomodation	Mode of Transport
Day 1 5th Dec 24 Thursday	Arrival in Bangalore Visit to HMT Museum	HMT Watch history	FAB Hotels Phoenix, MG road	Bus to Blr, Cabs/local transport
Day 2 6th Dec 24 Friday	Payana Car Museum	vintage car display	FAB Hotels Phoenix, MG road	Private Bus
Day 3 7th Dec 24 Saturday	Visit to Design Objects Studio	Industrial Design studio visit, interaction with designers	Check out from FAB Hotels Phoenix, MG road	Cabs/local transport
Day 4 8th Dec 24 Sunday	Arrival in Pondi, Chunnambar Boat House, Jawahar toy museum	Boating, visit to tourist spots, museum exploration	Seaborne Beach Resorts	Bus to Pondicherry cabs/rentals/local transport
Day 5 9th Dec 24 Monday	Auroville, Pondicherry	Bamboo Workshop	Seaborne Beach Resorts	Local transport/ cabs/ bike rentals
Day 6 10th Dec 24 Tuesday	Pondicherry	Retreat in Pondicherry	Seaborne Beach Resorts	Local transport/ cabs/ bike rentals
Day 7 11th Dec 24 Wednesday	Return to Hyderabad	Retreat in Pondicherry, travel back	Check out from Seaborne Beach Resorts	Bus back to Hyd

HMT Museum

The HMT Heritage Centre and Museum, located in Jalahalli, Bangalore, celebrates the legacy of Hindustan Machine Tools (HMT), India's pioneering machine manufacturing company established in 1953.

The museum spans two floors:

- Ground Floor: Dedicated to the history of watchmaking, it showcases a timeline of HMT's evolution, displays of various watch models—including hand-wound, Braille, and customized designs—and exhibits detailing the intricate components and manufacturing processes of watches.
- First Floor: Focuses on machine tools and equipment, documenting HMT's production range since its inception. It features displays of machinery, tools, and an informative section on the development of HMT tractors, including their functional parts.





Observations:

Explored HMT's history, showcasing its impact on Indian manufacturing. Saw various watches, including Braille models, and their making process. Observed machines, tools, and tractors, learning about their parts and functions.

Insights:

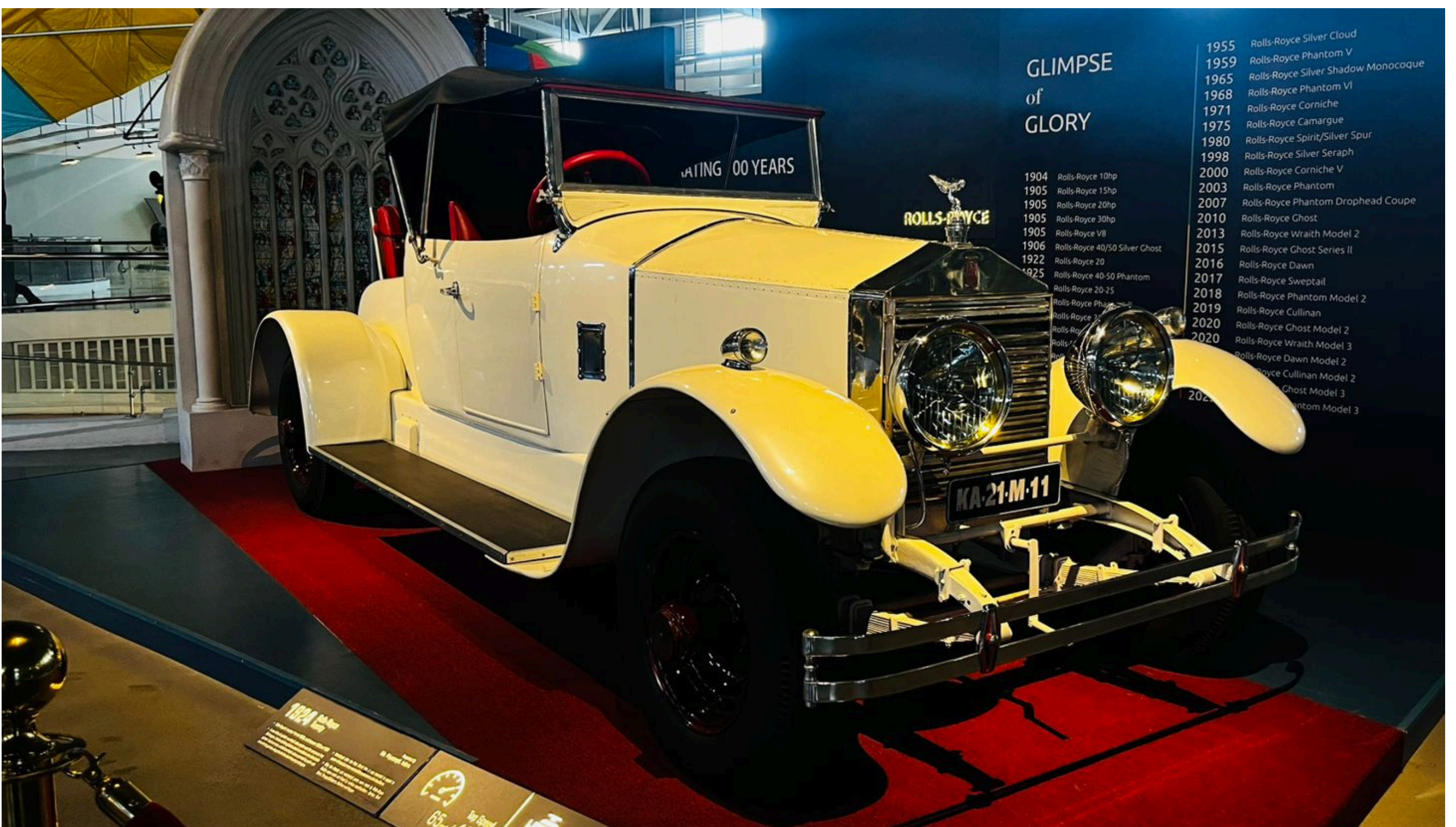
Learned how HMT contributed to India's industrial growth. Understood the craftsmanship and precision in watch and machine making. Noted HMT's expansion from watches to industrial tools, reflecting technological progress.

Payana Museum



The Payana Vintage and Classic Car Museum, located near Mysuru on the Bengaluru-Mysuru Expressway, is a premier destination for automotive enthusiasts and history aficionados. Established by Dr. D. Veerendra Heggade, the museum showcases a remarkable collection of 69 vehicles, including vintage cars, motorcycles, scooters, and carts, each narrating a unique story of automotive evolution.

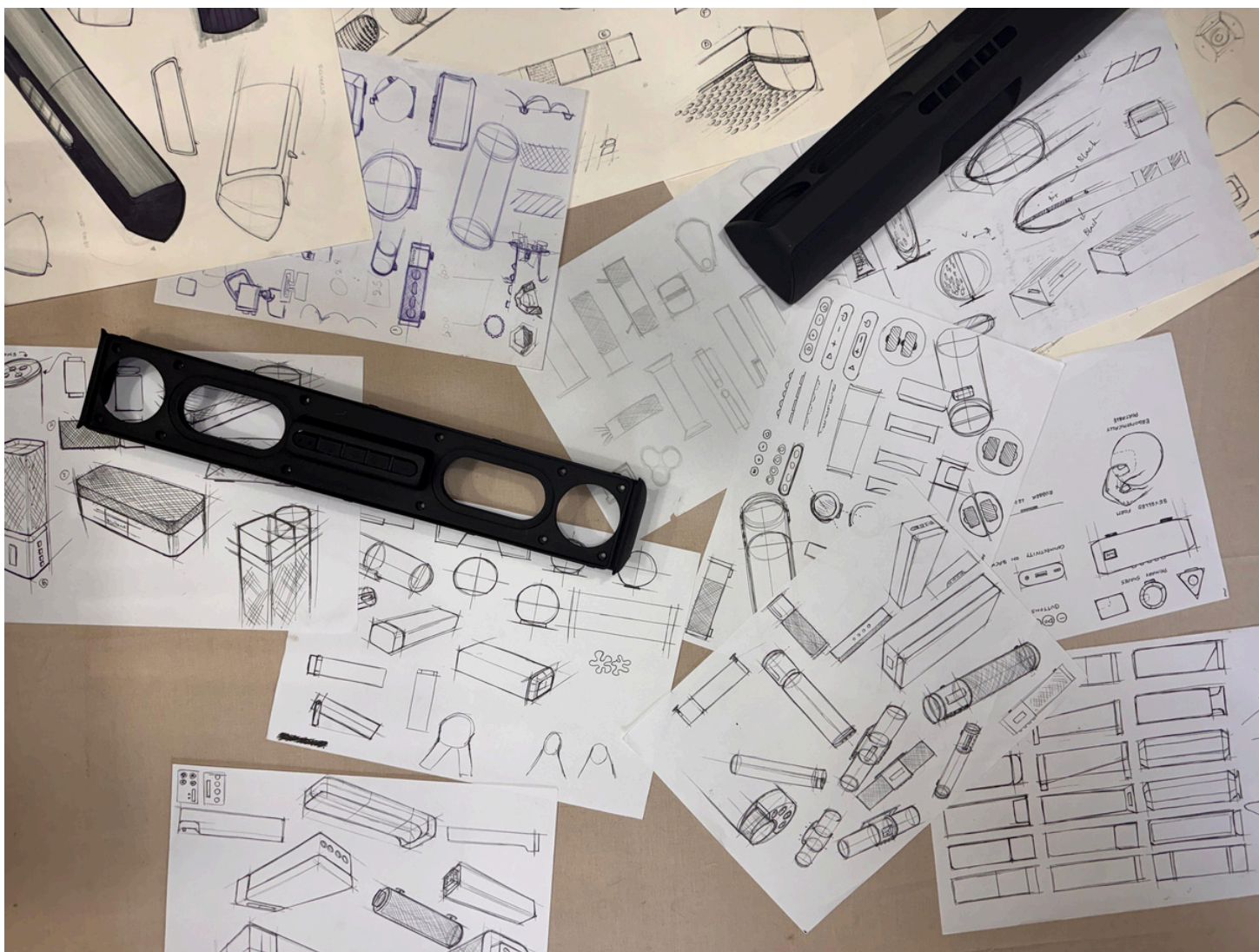
Among the notable exhibits is a 1925 Fiat 501, jeeps from World War II, and a 1949 Daimler DE 36 that once belonged to the Maharaja of Mysore. The museum's architecture is distinctive, with a design resembling a car tire, enhancing the thematic experience for visitors.





Design Objects Studio

Design Objects is a design studio with a presence in Bangalore, specializing in creating innovative and functional design solutions. Their portfolio encompasses a diverse range of projects, reflecting a commitment to looking beyond form and function to deliver exceptional design outcomes.



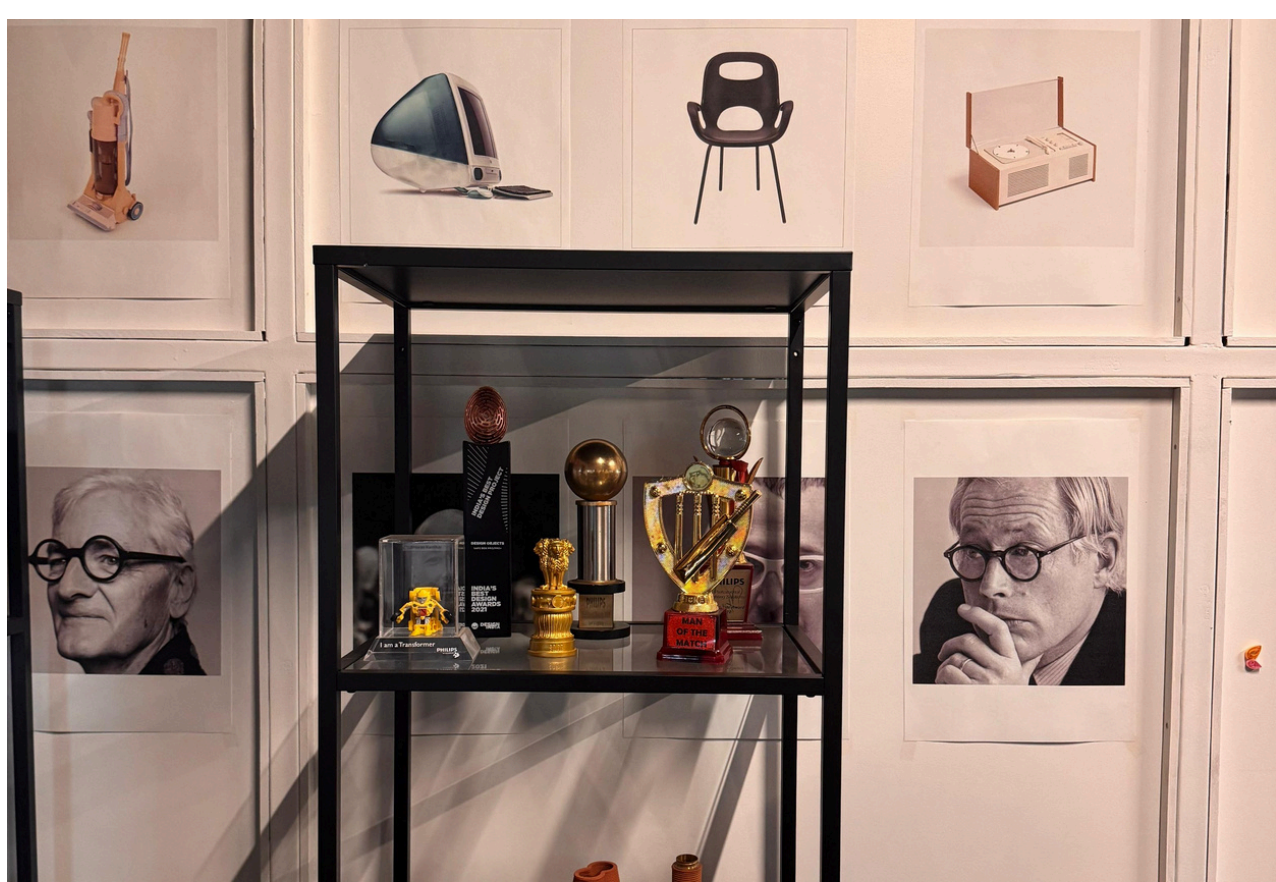
During our visit to Design Objects Studio in Bangalore, we explored various aspects of the design workflow, including the ideation process and prototyping methods. The experience provided valuable insights into how initial concepts are transformed into tangible designs through structured brainstorming and iterative development.

One of the most significant highlights of the visit was witnessing the 3D printing machine for clay, which showcased advanced prototyping techniques and the integration of modern technology in the design process. This innovative tool demonstrated how complex design ideas can be brought to life with precision and creativity.



The studio's guiding principle is "looking beyond form and function," which means they strive to create designs that are not only visually appealing and practical but also meaningful and impactful.

Design Objects is committed to nurturing the next generation of designers. They conduct portfolio workshops where students receive personalized feedback and guidance to enhance their design portfolios. These workshops are particularly beneficial for students specializing in industrial design, as they provide insights into industry standards and expectations.



Learning Outcome :

Holistic Design Approach: Learned how design can go beyond form and function to create meaningful, impactful solutions.

Prototyping and Technology: Gained insights into advanced prototyping techniques, including 3D clay printing, and how technology enhances design precision.

Portfolio Development: Understood the importance of portfolio workshops in meeting industry standards and refining design presentation skills.

Bamboo Workshop, Auroville

The Auroville Bamboo Centre in Auroville, India, is dedicated to promoting sustainable building practices and the versatile use of bamboo. Established in February 2007, the center focuses on research, development, and education related to bamboo applications in construction, furniture design, and other products.

During our visit to the Bamboo Workshop in Auroville, we learned about the diverse uses of bamboo in sustainable design and construction. The workshop provided us with a hands-on experience, where we were guided on how to create various bamboo products. One of the key tasks was to design and craft a lamp entirely from bamboo. This exercise allowed us to explore the versatility of bamboo as a material while developing practical skills in its manipulation and assembly. It was a valuable learning experience that deepened our understanding of bamboo's potential in eco-friendly design.



KEY LEARNINGS

- **Historical Insights:** Gaining an understanding of the evolution of industries, from mechanical tools and watches at the HMT Museum to vintage cars at Payana, and how these developments have shaped the modern world.
- **Prototyping and Innovation:** Observing modern prototyping methods, including the use of 3D printing for clay at Design Objects Studio, and learning how creative ideation leads to tangible designs.
- **Sustainability in Design:** Learning about eco-friendly materials and practices, particularly from the Bamboo Workshop, where bamboo's versatility as a sustainable building material was explored.
- **Hands-on Experience:** Participating in practical activities, such as creating a bamboo lamp, which allowed us to apply theoretical knowledge and enhance our craft skills.
- **Technological Integration:** Observing how cutting-edge technologies, like 3D printing, and traditional materials, like bamboo, are being used in innovative ways across industries.
- **Collaboration and Networking:** Interacting with professionals and experts, gaining insights into industry practices, and learning about career opportunities in design, engineering, and sustainability.

