VINAYAKA MISSIONS RESEARCH FOUNDATION

AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY, PAIYANOOR.

DEPARTMENT OF CIVIL ENGINEERING

Industrial Visit to Nippon (India) Private Limited, Sriperumbudur.

On 19th March, 2025

ORGANIZATION: Nippon (India) Private Limited.

LOCATION: Sriperumbudur

The Department of Civil Engineering organized an industrial visit to Nippon (India) Private Limited, Sriperumbudur, as part of an initiative to bridge academic learning with real-world industry applications. The visit aimed to provide students with firsthand exposure to the paint manufacturing industry, technological advancements, and quality control procedures. This visit was arranged as an outcome of the Memorandum of Understanding (MoU) signed between Vinayaka Mission's Research Foundation and Paints & Coating Skill Council on February 21, 2025.

A total of 20 students, accompanied by three faculty members, participated in this educational tour. Upon arrival, students were taken to the respective areas of expertise within the facility, where they attended insightful sessions led by industry professionals.

Session Highlights

1. Virtual Painting Technology

The first session was conducted by Mrs. Neelam Kumari, Manager - Colouring Lives at Nippon Paint India. She introduced students to the concept of Virtual Painting, which utilizes advanced digital tools to simulate the painting process before actual application. This technology allows customers to visualize various colours, finishes, and textures on surfaces before making a final selection, improving decision-making and efficiency.

2. Paint Manufacturing Process

The second session was led by Mr. Lenin Kolappan, Project Manager at Nippon (India) Private Limited, who provided an in-depth tour of the paint manufacturing plant. Students witnessed the complete paint production process, starting from the mixing of raw materials—including pigments, resins, solvents, and additives—to achieve the desired formulation.

The visit covered the following stages of manufacturing:

- **Mixing & Blending –** Combining raw materials in precise proportions to maintain quality and consistency.
- **Milling & Dispersion** – Ensuring uniform colour and texture through fine grinding of pigments.
- **Filtration & Quality Testing** – Rigorous testing of each batch for colour accuracy, viscosity, and durability.
- **Packaging & Automation** – Observing how advanced machinery ensures efficiency and precision in packaging.

Students gained valuable insights into the stringent quality control measures that ensure every batch meets industry standards. They also learned about the role of automation and cutting-edge technology in enhancing production efficiency and maintaining product consistency.

Key Takeaways

- Understanding of Virtual Painting Technology and its impact on the customer experience.
- Exposure to the paint manufacturing process, from raw material selection to final packaging.
- Appreciation of quality control procedures and the role of automation in the industry.
- Insights into the real-world applications of engineering principles in manufacturing.

The industrial visit to Nippon (India) Private Limited was an enriching experience, offering students a practical perspective on the paint production industry. By interacting with industry experts and witnessing the manufacturing process firsthand, students gained deeper knowledge of material science, industrial automation, and quality assurance.

This initiative successfully bridged the gap between theoretical learning and industrial application, inspiring students to explore careers in manufacturing, technology, and engineering innovation.

EVENT GALLARY


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LIST OF FACULTY PARTICIPANTS

S.No	Name of the Faculty/Research Scholar	Designation
1	Dr. R. Abirami	Assistant Professor (Grade II)
2	Dr. K. Naveen Kumar	Assistant Professor (Grade II)
3	Mrs. S. Monisha	Assistant Professor (Grade II)

LIST OF STUDENT PARTICIPANTS

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