AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

PROGRAM REPORT
for
Faculty Development Program in Paints and Coatings (Industrial Visit)

Day 6 – 26.09.2025

The Departments of Civil Engineering and Mechanical Engineering at AVIT organized a Faculty Development Program titled 'Paints and Coatings', with the final day industrial visit conducted on 26th September 2025 at Nippon Paints, Sriperumbudur.

About the Event

On the 6th day of the FDP, an industrial visit was arranged to Nippon Paints, Sriperumbudur, by Mr. N. K. Bhatia and Mr. Gowri Shankar Mahalingam. During the visit, participants had the opportunity to observe the complete paint manufacturing process, including raw material handling, mixing, quality control, and packaging. Emphasis was given to the stringent safety protocols and environmental practices followed in the factory. The participants also engaged in interactive sessions with the plant staff, discussed industry best practices, and clarified queries regarding process optimization and practical challenges. This visit provided a valuable platform to link the theoretical knowledge gained during the FDP with real-world industrial applications, enhancing understanding of paint technology and operational standards

During the industrial visit, Mr. Jayakumar B, Manager – Quality at Nippon Paint India, explained the quality protocols and safety measures followed at the plant. He detailed the various quality assurance procedures, inspection stages, and adherence to industry standards, highlighting how safety practices are strictly implemented to ensure a secure working environment for all employees. This session provided participants with a clear understanding of practical quality control and safety management in a real industrial setting

Mr. Lenin Kolappan, Project Manager at Nippon (India) Private Limited, provided an in-depth explanation of the various paint testing procedures used to ensure product quality and performance. He elaborated on the preparation processes for both water-based and solvent-based paints, including the selection of raw materials, mixing techniques, and formulation adjustments to meet specific requirements. Additionally, he described the packing and storage methods, highlighting measures taken to maintain consistency, prevent contamination, and ensure safety during handling and transportation. Mr. Kolappan also emphasized the role of quality control at each stage of production, from raw material inspection to final product testing, demonstrating how industrial standards and

safety protocols are strictly implemented to deliver high-quality paint products. This session offered participants valuable insights into the practical aspects of paint manufacturing, process optimization, and operational safety, bridging theoretical knowledge with real-world industrial practices.

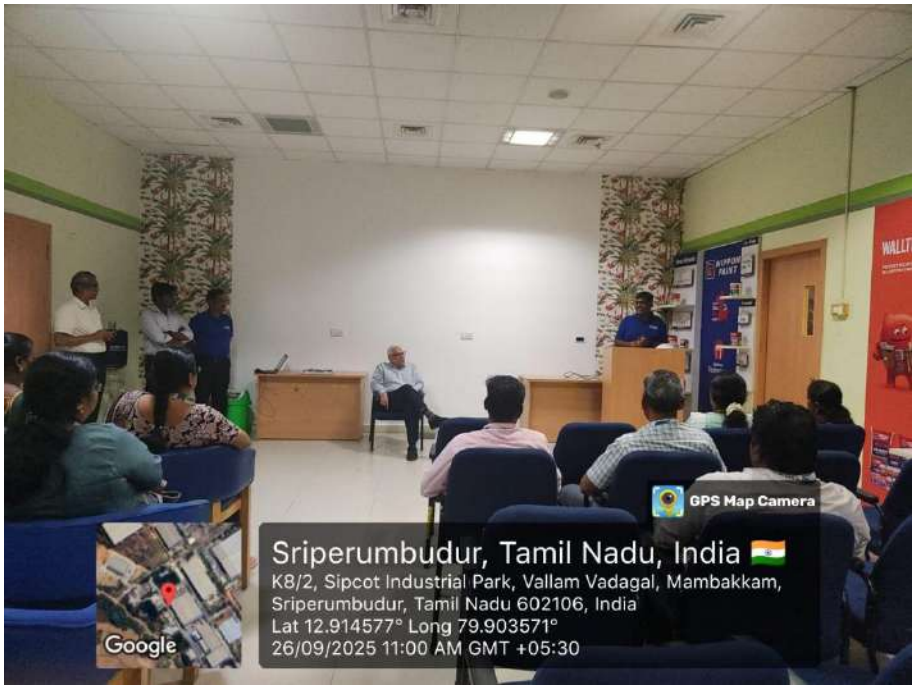
The faculty observed the entire manufacturing workflow, starting with the precise combination of pigments, resins, solvents, and additives to achieve the required paint formulations. The visit highlighted several key stages: Mixing & Blending, where materials are proportioned accurately to ensure uniformity; Milling & Dispersion, which guarantees consistent colour and texture through thorough grinding of pigments; Filtration & Quality Assessment, where each batch undergoes strict testing for colour fidelity, viscosity, and durability; and Packaging & Automation, where modern equipment ensures efficient and precise packaging of finished products. This session offered the faculty valuable insights into industrial paint production, quality assurance practices, and the use of technology to maintain operational excellence.

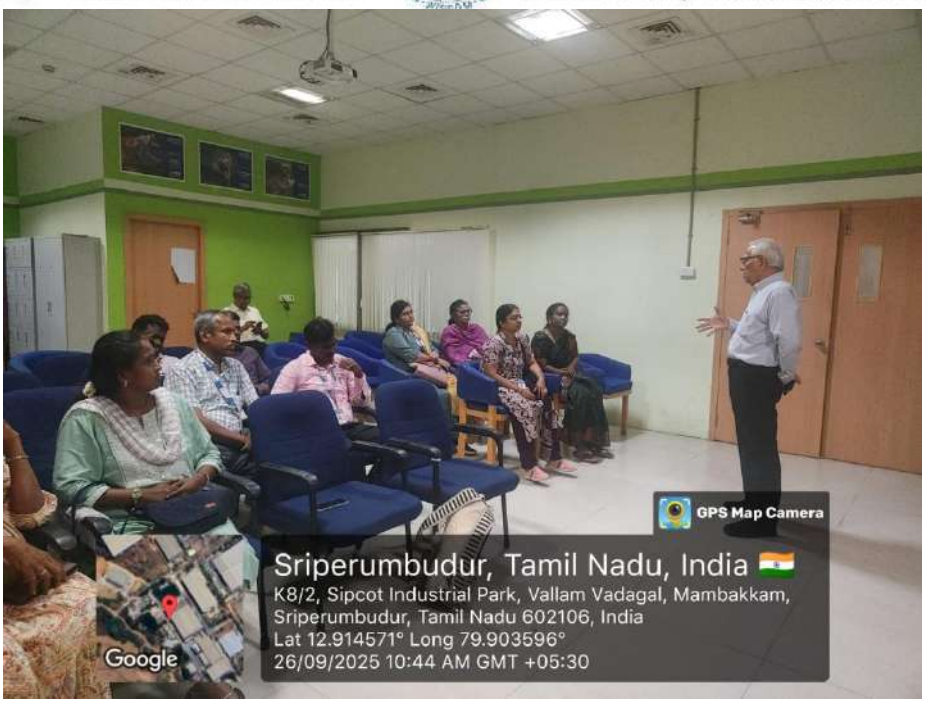
The industrial visit also highlighted Nippon Paint's commitment to sustainability. Participants observed the plant's green campus initiatives, including effective waste treatment and reuse practices that minimize environmental impact. The facility also integrates solar power to reduce energy consumption and promote renewable energy use. These measures demonstrate how the company balances efficient production with environmental responsibility, providing an excellent example of sustainable industrial practices in the paint manufacturing sector.

KEY POINTS

- **Comprehensive Paint Manufacturing Insight:** Observed the full production process, including mixing, formulation, testing, and packaging, for both water-based and solvent-based paints.
- **Quality, Safety, and Technology Practices:** Learned about strict quality control procedures, safety protocols, and the use of modern machinery and automation to ensure consistency and efficiency.
- **Sustainability Initiatives:** Noted Nippon Paint's green campus, effective waste treatment and reuse practices, and the use of solar power to reduce energy consumption.

EVENT PHOTOS




GPS Map Camera
Sriperumbudur, Tamil Nadu, India
K8/2, Sipcot Industrial Park, Vallam Vadagal, Mambakkam,
Sriperumbudur, Tamil Nadu 602106, India
Lat 12.914571° Long 79.903596°
26/09/2025 10:44 AM GMT +05:30
Google


NIPPON PAINT

Participant List

S. No.	Name of the Participant	Designation	Department
1	Mr.S.Kalyanakumar	Assistant Professor II	MECHANICAL
2	Dr.P.Kumaran	Assistant Professor II	MECHANICAL
3	Mr.S.Sathiyaraj	Assistant Professor II	MECHANICAL
4	Dr.Pa.Suriya	Assistant Professor II	CIVIL
5	Dr.R.Abirami	Assistant Professor II	CIVIL
6	Dr.P.Subathra	Assistant Professor II	CIVIL
7	Dr.K.Naveen Kumar	Assistant Professor II	CIVIL
8	Dr.R.Nagalakshmi	Associate professor	CHEMISTRY
9	Dr. Padma priya	Associate professor	CHEMISTRY
10	Dr. Suganya	Assistant Professor	CHEMISTRY
11	Ms.Sona	Research Associate	CIVIL