HOPE Foundation's
Finolex Academy of Management and Technology, Ratnagiri
Department of Computer Science and Engineering (AI & ML)

An Industrial Visit to JSW Energy

The Department of Computer Science and Engineering (AI & ML) organized an Educational Industrial Visit to JSW Energy Plant, Jaigad, Ratnagiri, on 24th February 2025 for all SE and BE students of the CSE AI & ML Department.

A total of 36 students participated in this visit, gaining valuable insights into the functioning of a large-scale energy production unit. The primary objective of the industrial visit was to provide students with practical exposure to power generation, plant operations, and the latest advancements in energy production. The visit aimed to bridge the gap between theoretical knowledge and real-world applications in the energy sector. Students were introduced to various aspects of power generation, transmission, and environmental sustainability practices followed at the plant.

The visit commenced with a warm welcome by the JSW Energy team, followed by an introductory session covering the history, vision, and operational excellence of the plant. The experts provided an overview of the plant's generation capacity, the technology used, and its role in power distribution across the region. Students were taken on a guided tour of various plant sections, including the Control Room, where they understood real-time monitoring, automation, and AI-driven predictive maintenance; the Turbine Section, observing the working of high-capacity turbines and their role in power generation; the Boiler Unit, the steam generation process and the role of coal and renewable sources in energy production; and the Environmental Management Unit, exploring sustainability initiatives, emission control systems, and renewable energy integration.

The experts explained the significance of energy efficiency, smart grid systems, and the impact of artificial intelligence in optimizing energy production and distribution. Students actively participated in interactive Q&A sessions, where they explored various
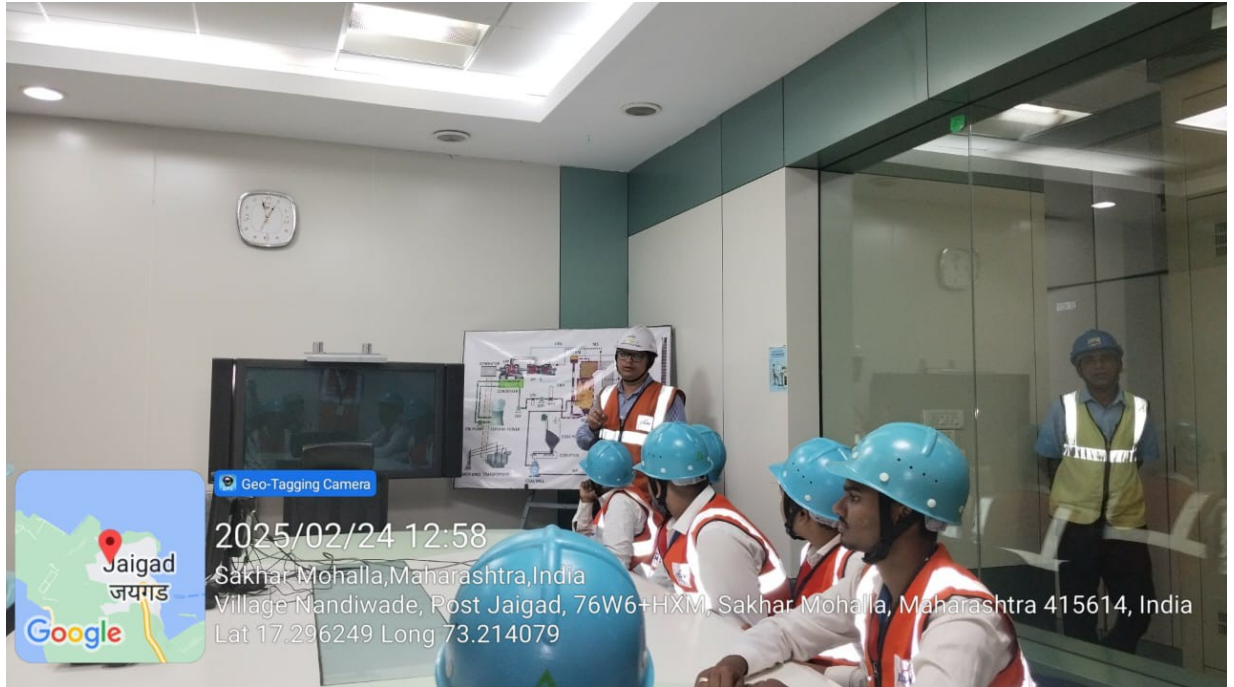
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career opportunities in the energy sector. The industrial visit proved to be an enriching experience for students, providing them with practical exposure to power plant operations and industrial automation, knowledge about energy production, distribution, and environmental regulations, and insights into career prospects and required skill sets for working in the energy industry. The visit concluded with a vote of thanks by faculty members, acknowledging the efforts of JSW Energy for facilitating this insightful experience. Students expressed their enthusiasm and appreciation for the opportunity to witness cutting-edge energy production technology firsthand.

The coordinators of the Industrial visit were Prof. Swapnali R. Teli, and Prof. Akshay N. Shetye, Assistant Professors of Computer Science and Engineering (AI & ML) Department. This visit was successfully conducted under the guidance of Prof. V. V. Nimbalkar, HoD, Computer Science and Engineering (AI & ML) Department.

Photographs of the Event

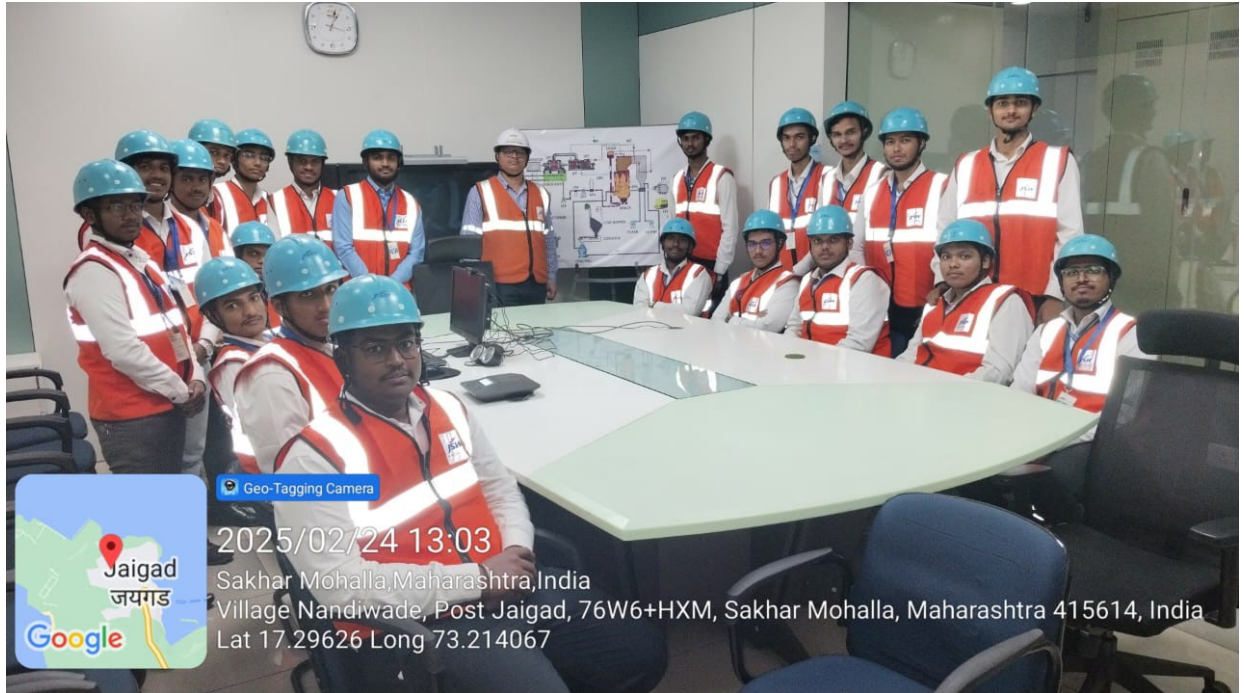## An Industrial Visit to JSW Energy

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Mr Samarth Gosavi, Engineer, JSW Energy plant, explained the process of energy generation to students.

Photographs of the Event

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Mr Samarth Gosavi, Engineer, JSW Energy plant, is with our students.

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Students with faculty coordinators at JSW, Energy plant, Jaigad