Vidyabharti Trust College of Master in Computer Application (MCA, MBA & IMSc.IT), Umrakh

Approved by AICTE, New Delhi and Affiliated to GTU, Ahmedabad.

Report on Industrial Visit

On 11th December 2024, the students of Semester 3 (SY MCA) from Vidyabharti Trust College of Master in Computer Application (MCA, MBA & MSc.IT), Bardoli, visited the Nuclear Power Corporation Limited (NPCIL) at Kakrapar. The visit aimed to provide students with a comprehensive understanding of power generation and transmission using nuclear energy. A total of 44 students, accompanied by two faculty members, participated in the visit. The event also included a subsequent visit to the Kakrapar Dam, adding to the educational and exploratory experience.





The journey to Kakrapar began early in the morning from the college campus. Transportation was arranged to ensure the comfort of all participants. Necessary permissions and safety protocols were meticulously handled by the faculty coordinators.

The visit to NPCIL, Kakrapar, was divided into theoretical sessions and a guided tour of the power plant. Students attended a detailed session conducted by NPCIL experts, explaining the fundamentals of nuclear energy. Topics covered included the role of uranium in generating nuclear power, the concept of nuclear fission, and the environmental benefits of using nuclear energy as a clean power source.

The students were guided through different phases of the power plant, observing the operations involved in power generation. They gained a deeper understanding of how nuclear reactions are harnessed to produce electricity and the importance of maintaining stringent safety protocols. A live demonstration of the plant's main control unit showcased the sophisticated software and robotic technologies employed for real-time monitoring and control.Students observed how automation and precision play crucial roles in ensuring efficient and safe operations within the power plant.





The students expressed their enthusiasm and gratitude for the opportunity to visit such a prestigious facility. The visit bridged the gap between theoretical concepts and practical applications, inspiring many students to explore careers in energy and technology sectors. The faculty members appreciated NPCIL's hospitality and the detailed explanations provided by the experts.

Conclusion:

The industrial visit to NPCIL, Kakrapar, was a significant success, providing students with invaluable knowledge and practical exposure to nuclear power generation. The event achieved its educational goals, fostering curiosity and enhancing the students' understanding of advanced technologies and sustainable energy solutions. The later visit to Kakrapar Dam added a multidisciplinary perspective to the learning experience.