



NEW HORIZON COLLEGE OF ENGINEERING

DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

Report on Industrial Visit to Bamul - Nandini Mega Dairy, Kanakapura, Ramanagar Dist.

On December 9, 2024, students from New Horizon College of Engineering participated in an educational industrial visit to the prestigious Bamul-Nandini Mega Dairy located in Kanakapura, Ramanagar District. This visit provided an excellent opportunity to witness the end-to-end process of dairy product manufacturing, offering invaluable practical insights into the workings of one of India's renowned dairy processing units.

The visit commenced with a warm welcome by the officials of Bamul-Nandini Mega Dairy. The students were briefed about the history, mission, and operational excellence of the dairy, which has been serving consumers with quality dairy products for decades. They were introduced to the critical role Bamul plays in empowering farmers and maintaining the high standards of the dairy supply chain, reflecting its dedication to quality and sustainability.

During the tour, students were taken through the milk processing units, where they observed how raw milk is collected, tested, and processed. They were fascinated to learn about the stringent quality control measures implemented to ensure the purity and safety of milk at every stage of processing. The advanced technology and automation in place demonstrated the efficiency of the operations.

The manufacturing section was the highlight of the visit. Here, the students saw how various dairy products like butter, cheese, yogurt, and milk powder are produced and packaged. The step-by-step process, from pasteurization to homogenization, and from fermentation to packaging, was meticulously explained by the experts at the facility. The students gained a deeper understanding of the science and technology behind dairy processing.

One of the most intriguing parts of the visit was witnessing the ultra-modern cold storage and logistics section. Students were introduced to the methods of preserving the freshness of dairy products during storage and transportation. The tour provided them with a perspective on supply chain management and the importance of maintaining temperature-sensitive products in optimal conditions.

The session also included a brief interaction with the quality assurance team. The team highlighted the critical role of quality testing and compliance with food safety standards. The students were shown how chemical and microbial tests are conducted to ensure the products meet the required standards before reaching the market.

The visit not only showcased the technological marvels but also shed light on the importance of teamwork and coordination in large-scale operations. The dairy's ability to integrate farmers, technology, and markets demonstrated the significance of collaboration and innovation in the agriculture and food industries.

The students found the visit extremely enriching, as it bridged the gap between theoretical knowledge and real-world application. Observing the processes live and understanding the science behind them helped the students grasp key concepts in their curriculum, particularly in fields related to engineering, biotechnology, and supply chain management.

The officials of Bamul-Nandini Mega Dairy encouraged students to ask questions, fostering an interactive and engaging learning environment. They also discussed the challenges and opportunities in the dairy industry, inspiring students to think critically about potential innovations and contributions they could make to the sector.

In conclusion, the industrial visit to Bamul-Nandini Mega Dairy was a resounding success. The students expressed their gratitude for the opportunity to witness world-class dairy processing firsthand. This experience not only expanded their technical knowledge but also instilled a sense of appreciation for the efforts involved in bringing safe and nutritious dairy products to consumers. The visit was a testament to the college's commitment to providing holistic and practical education to its students.

Photos of the Industry Visit





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