

Title: Industrial Visit to WBSEDCL 33kV/11kV Substations, Newtown Action Area 1B

Objective: To gain practical exposure to the operation and maintenance of 33kV/11kV substations and understand the power distribution process

Date: 25/02/2025

No of Student Participant: 30

Report: The Department of Electrical Engineering at Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex organized an industrial visit to the WBSEDCL 33kV/11kV substations at Newtown Action Area 1B on 25th February 2025. The visit was attended by 30 students from the second, third, and fourth years of Electrical Engineering, accompanied by Dr. Sayantan Chakraborty, Head of the Department (EE), and Mr. Prathita Roy, Assistant Professor (EE).

During the visit, students observed the real-time operation of electrical substations, including power transformation from 33kV to 11kV for distribution to urban and residential areas. The students gained insights into key components such as transformers, circuit breakers, relays, switchgear, and control panels. The substation engineers explained various aspects of power distribution, fault detection mechanisms, and grid stability.

A key highlight of the visit was a demonstration of load monitoring and protective relay coordination, which provided students with valuable hands-on knowledge about maintaining an uninterrupted power supply. The students also had an opportunity to interact with industry professionals, discussing challenges and advancements in modern power distribution systems.

The visit was an enriching experience, offering students a practical understanding of electrical power infrastructure and its significance in electrical engineering.

A few glimpses of the industrial visit:



The poster features a blue and green geometric background with a photograph of an electrical substation on the right. At the top, there are logos for NEA, nif-innovation, and other institutions. The main text reads: 'INDUSTRIAL VISIT', 'ONE DAY INDUSTRY VISIT AT WBSEDCL, NEWTOWN', 'ORGANISED BY DEPARTMENT OF ELECTRICAL ENGINEERING, DR. SUDHIR CHANDRA SUR INSTITUTE OF TECHNOLOGY AND SPORTS COMPLEX (AN AUTONOMOUS INSTITUTE)'. It also includes the date '25TH FEBRUARY, 2025' and time '9:30 AM ONWARDS'. The website 'WWW.SURTECH.EDU.IN' is at the bottom.



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