

Report on One-day Industrial Visit to BSNL office, Indiranagar, Bengaluru.

A one-day **Industrial Visit to BSNL, Indiranagar**, Bangalore was organized by Dr. Subhradip Mukherjee, Assistant Professor (IIoT Dept.) & Industrial Visit Coordinator at Department of IIOT Engineering, on 09th December 2024, for the 3rd and 5th semester students. A bus was used for transportation. We started at 9-30 a.m. from the college and reached BSNL venue at 10-30 a.m.

A total of 45 students from 3rd and 5th sem students visited the organization, accompanied by faculty members Dr. Subhradip Mukherjee and Ms. Shayamala. The students and faculty members were received by the Training Principal, BSNL, Indiranagar, Bangalore. After reaching to BSNL office all students were divided into two batches and each group was taken to learn about different modules namely switching, transmission and MDF (Main distribution function). Different modules were discussed and explained by several experts named as Mr. Sateesh (Junior Telecom Officer) Mrs. Vandhana (Junior Telecom Officer) and Mrs. Monica (Subdivision Engineer)

During the visit to the switching modules, students gained practical insights into call-making and receiving. They received instructions on creating calling numbers and checking dial tones.

In the transmission module, students received a comprehensive briefing on Optical Fiber Communication (OFC), including its uses, advantages, and applications. Real cables were showcased to students, providing a tangible understanding of their operational procedures.

Within the MDF module, students were educated on the significance of the Main Distribution Function (MDF). They were briefed about both the line side and exchange side of MDF and were shown the functioning components of the distribution unit.

The visit came to an end at 01:30 pm and we left the premises and reached back to college at 2:45 pm. Students felt that the visit was an informative and interesting. We Faculty and Industrial coordinator express our sincere thanks to the Management, Principal, Vice-Principal, Dean Academic and HOD for permitting students for this informative visit.



Figure 1: Students starting their journey from MVJCE, Bangalore.



Figure 2: Students listening to the concept of Voice and Broad band Server Working explanation



Figure 3: Students listening to the concept of Telephone line condition checking methods



Figure 4: Students listening to the concept of main distribution function



Figure 5: Our students and faculty members with the BSNL Staff members

Outcome of the Event:

Students witnessed various technical process involved in live switching of telephone links at regional level. Students also gained knowledge about different types of switch boxes and links used for internet and voice communication. The students also understood the basics of telecommunications infrastructure and services, knowledge of network architecture, transmission systems, and switching systems.