



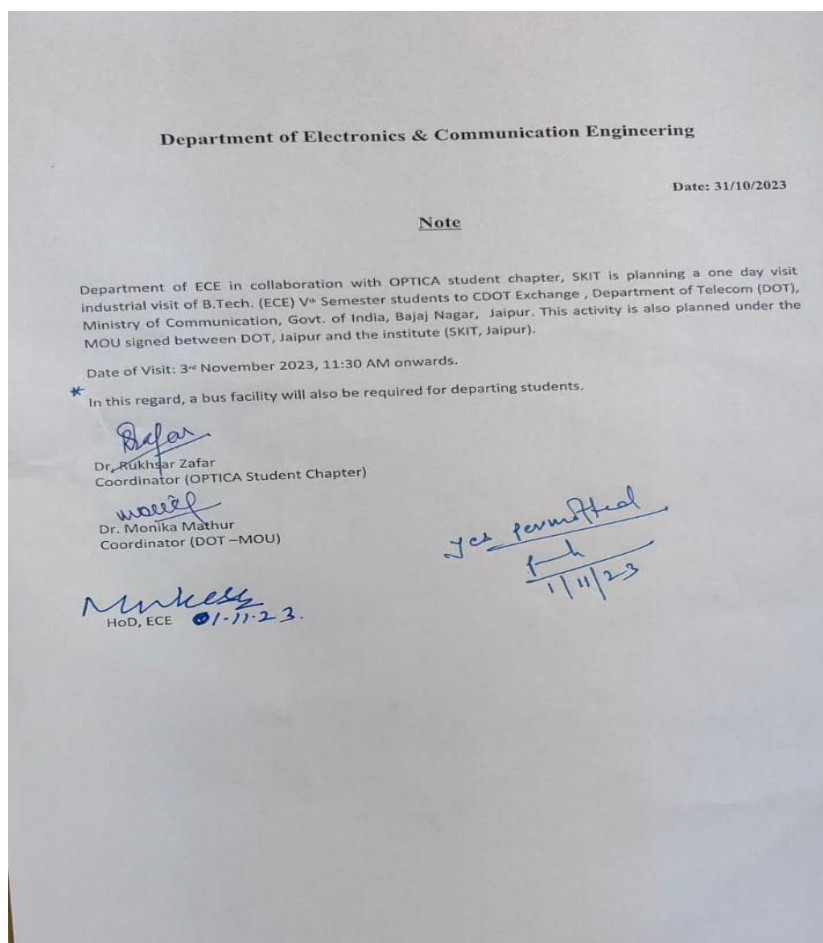
## **Industrial Visit**

**Date: - 3<sup>rd</sup> November 2023, 11:30 onwards.**

**Venue: - CDOT Exchange, Department of Telecom (DOT), Ministry of Communication, Govt. of India, Bajaj Nagar, Jaipur.**

**Level of the visit: - College level**

**Notice for the visit: -**



**Objective of the event:** - The primary objective of the visit was to gain insights into the operations, infrastructure, functioning and technological advancements of a prominent telecommunication service provider in India.

**Details (Execution): -**

This visit was organized by the OPTICA Chapter. Bharat Sanchar Nigam Limited (BSNL) is a leading government-owned telecommunication service provider in India. Established in 2000, BSNL has a widespread network infrastructure across the country, providing a wide range of services including landline, mobile, broadband, and internet connectivity.

During the visit, we were provided with an overview of the organizational structure of BSNL. The company is divided into various functional departments, including technical, marketing, finance, and customer service. This hierarchical structure enables efficient coordination and management of operations.

We were introduced to the latest technologies employed by BSNL. This included discussions on 4G and 5G technologies, optical fiber networks, and satellite communication systems. The demonstration of equipment used for network maintenance and troubleshooting provided valuable insights into the technical aspects of telecommunication operations.

Throughout the visit, students got the idea about the following concepts:

- Local Telephone Exchange
- Broadband
- PCM/OFC / DWDM
- BTS - GSM System
- MDF
- Battery Power Plant

Students had the opportunity to interact with customer service representatives who shared their experiences in managing customer inquiries and resolving issues efficiently. It was evident that BSNL places a strong emphasis on providing quality customer service.

The representatives at BSNL discussed the challenges faced by the company in a highly competitive telecom market. These challenges included adapting to rapidly evolving technologies, maintaining network security, and meeting the increasing demands for high-speed internet. We also learned about BSNL's initiatives to innovate and stay competitive in the market.

One of the challenges highlighted during the visit was the increasing demand for high-speed internet services and the need for continuous technological upgrades to meet customer expectations. BSNL's focus on implementing 5G technology and expanding fiber-optic networks was a clear indication of their commitment to staying at the forefront of the industry.

The industrial visit to the BSNL office was an enriching experience that provided valuable insights into the telecommunication industry. We gained a deeper understanding of the operational intricacies, technological advancements, and customer-centric approach of BSNL. This visit has enhanced our knowledge and will be instrumental in our academic and professional pursuits.

### **Details/List of teacher participants: -**

<b>Sr. No.</b>	<b>Name of Teacher</b>	<b>Branch</b>
1.	Dr. Monika Mathur	ECE
2.	Dr. Kiran Rathi	ECE
3.	Dr. Neeraj Jain	ECE

### **Details/List of student participants: -**

<b>Sr. No.</b>	<b>Student Name</b>	<b>Univ. Roll No.</b>	<b>Year</b>	<b>Branch</b>
1.	Aaniya Saxena	22ESKEC002	II	ECE
2.	Aayush Arora	22ESKEC003	II	ECE
3.	Abhi Kumar Gupta	22ESKEC004	II	ECE
4.	Agravi Yadav	22ESKEC007	II	ECE
5.	Akshat Gautam	22ESKEC008	II	ECE
6.	Akshita Jain	22ESKEC010	II	ECE
7.	Ankit Kumar Singhal	22ESKEC012	II	ECE
8.	Anmol Soni	22ESKEC014	II	ECE
9.	Apoorv Yadav	22ESKEC016	II	ECE

10.	Ashita Bansal	22ESKEC019	II	ECE
11.	Ashu Prajapat	22ESKEC020	II	ECE
12.	Babit Sharma	22ESKEC021	II	ECE
13.	Bhavesht Gupta	22ESKEC022	II	ECE
14.	Bhavya Agarwal	22ESKEC023	II	ECE
15.	Darsh Agrawal	22ESKEC025	II	ECE
16.	Darshan Khandelwal	22ESKEC026	II	ECE
17.	Deepak Khinchi	22ESKEC027	II	ECE
18.	Deepesh Sharma	22ESKEC030	II	ECE
19.	Deepmala Sharma	22ESKEC031	II	ECE
20.	Devendra Kumar	22ESKEC032	II	ECE
21.	Dushyant Choudhary	22ESKEC034	II	ECE
22.	FATEH SHARMA	22ESKEC035	II	ECE
23.	Gautam Meena	22ESKEC036	II	ECE
24.	Harsh Sharma	22ESKEC039	II	ECE
25.	Harshit Agarwal	22ESKEC040	II	ECE
26.	Harshita Khatkar	22ESKEC041	II	ECE
27.	Harshita Nenwani	22ESKEC042	II	ECE
28.	Imanshi	22ESKEC043	II	ECE
29.	Jitendra Sharma	22ESKEC044	II	ECE
30.	Kartik Sharma	22ESKEC046	II	ECE
31.	Keertee Bansal	22ESKEC047	II	ECE
32.	Keshav Toshniwal	22ESKEC048	II	ECE
33.	Khwaish Saini	22ESKEC052	II	ECE

**Feedback of the visit:** - The industrial visit to the BSNL office was an incredibly informative and eye-opening experience. It provided students with valuable insights into the operations of a leading telecommunication service provider in India. The visit exceeded their expectations in terms of learning opportunities and exposure to cutting-edge technologies. Students look forward to apply the knowledge and insights gained during this visit in their future studies and career. This will not only broaden their knowledge but will also ignite a deeper interest in the telecommunication industry.

## Glimpses of visit:



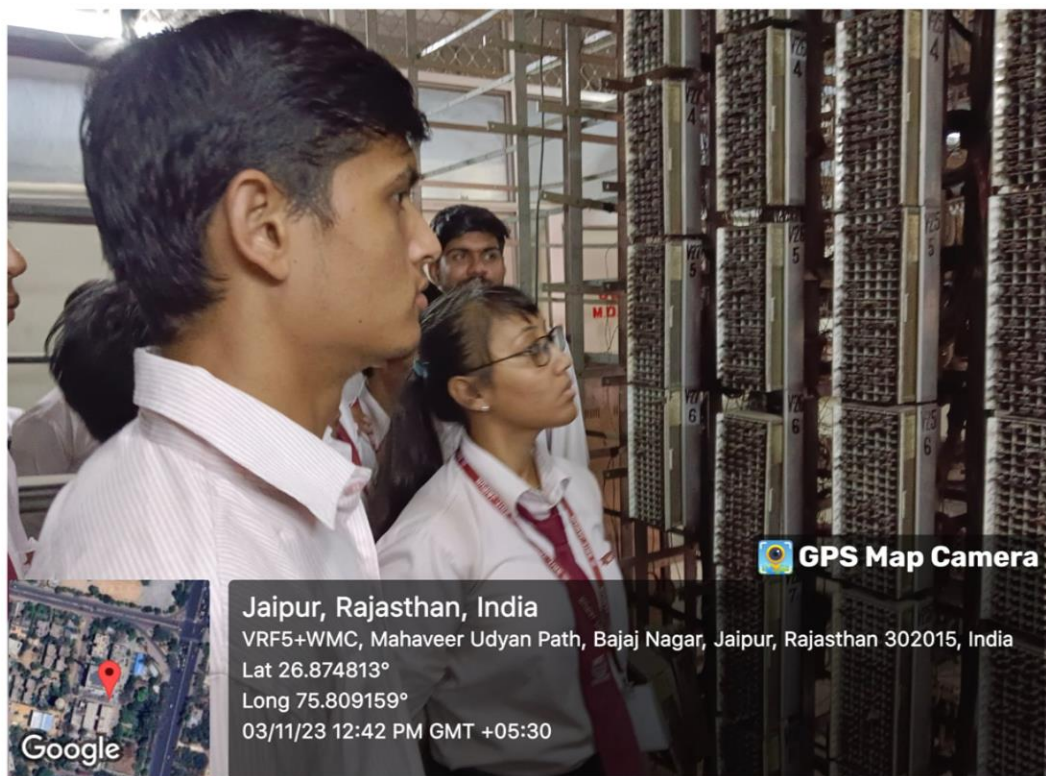












## **Faculty Coordinators: -**

### **OPTICA**

**Dr. Rukhsar Zafar**

**Dr. Kiran Rathi**

**Ms. Priyanka Sharma**

### **DoT MoU**

**Dr. Monika Mathur**