

# INDUSTRIAL VISIT REPORT

**Industry Name :** **Rajiv Gandhi Memorial Telecom Training Centre, (RGM TTC)**

**Location :** Meenambakkam, Chennai

**Date of Visit :** 7<sup>th</sup> May, 2022

**Faculty members:**

1. Mr. S. Thangavel ( Co-ordinator)
2. Mr. V. Maruthapandi
3. Mrs. R. Preethi

**Division of students:** 2nd year CSE Students (4th semester)

**No. of students :** 49

**Objectives :**

- To enhance knowledge of students
- To bring awareness of Telecomm network Infra & communication concepts

**Company profile :**

**Rajiv Gandhi Memorial Telecom Training Centre** is one of the prime training centres of BSNL in Tamilnadu telecomm circle. The Centre is an ISO 9001:2008 Certified Institute. The Institute is constantly making endeavors to provide customized as well as tailor made quality training to the outside agencies in the field of Mobile Communication, Optical Fibre Communication, Fibre optics and IP Addressing, Broadband, WiFi, WiMax etc.

**Various labs of RMTTC :**

Communication Lab	Switching Lab
Broadband Lab	Digital Telephone Exchange - C-Dot Lab
Fiber Optics Lab	ISP Lab
Transmission Lab	CDMA Lab
MDF (Main Distribution Frames)	GSM Lab

switching, transmission and MDF (Main distribution function). In switching module, students learnt on practical aspects of call making and receiving. They were thought on how to create the calling number and how to check the dial tone. In transmission module, students were briefed about OFC communication and its uses, advantages, applications. The students were shown the real cables and its working procedure. In the MDF module, students learnt about the requirement of main distribution function. They were briefed about line side and exchange side of MDF. The students were shown the functioning parts of distribution unit. After completion of visit we came back to ACET campus at 3:15 PM

**A telephone exchange consists of 4 functional blocks:**

1) SWITCH ROOMS 2) MDF (Main Distribution Frames) 3) TRANSMISSION ROOMS 4) TELECOM SUPPORT INFRASTRUCTURE.

### **1) SWITCH ROOMS:**

- a) It consists of digital electronic switches which guides the user to the destination by identifying a physical communication path.
- b) This identification is done with the help of logical or directory numbers. c) We were shown, how the switches work in real time, with an operating terminal.

### **2) MDF (MAIN DISTRIBUTION FRAME)**

- a) All subscriber lines are terminated at the end of MDF.
- b) It consists of front (line) end and a back (switch) end which are interconnected with the help of a jumper.
- c) A safety point is created in MDF to avoid any damages caused due to faults at the customer end. The jumper of an MDF consists of gas discharge tubes which eliminates the faults.

### **3) TRANSMISSION ROOMS:**

- a) The main function of transmission rooms is the interconnection of 2 exchanges within or outside the town. It involves optical fibre communication.
- b) Voice signals are first identified. 30 voice channels are combined with the help of first order European multiplexers which can handle a speed of 2.048Mbps.
- c) Pulse Code Modulation of voice signals are carried out along with digitization. Voice signals of frequency 0-4 KHz are converted to 64Kbps. *The industrial visit was very helpful in providing us a better understanding of the theoretical concepts of the subject Digital Switching Systems*

Conclusion: It was a Wonderful experience for all students as well for staff. Every student was very cooperative to each-other as well to the faculties. Students were acquainted of communication technologies in BSNL RMTTC

We (all students and staff member/s) are very much thankful to Our Management,Principal &Hod (cse) of Adhi College of Engineering & Technology a for giving their valuable support. We are also very much thankful to Principal ,PRO,and other staffs of Rajiv Gandhi Memorial Telecomm Training center (RMTTC) for their co-operation during the visit.