



# MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)

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**Report on**  
**Industrial Visit to Prasar Bharati Doordarshan Kendra and Bharat**  
**Sanchar Nigam Limited, Tirupati.**  
**Organized by Dept. of Electronics and Communication Engineering- MITS**  
**24-May-2022**



**Attended & Submitted by: Dr. Janmoni Borah and Dr. Smriti Baruah**  
**Assistant Professor, Department of Electronics and Communication**  
**Engineering, MITS Madanapalle.**

**Industrial Visit Information: (42 Students)**

A team of 42 students from ECE III YEAR C Section went to Prasar Bharati Doordarshan Kendra and Bharat Sanchar Nigam Limited, Tirupati, on 24<sup>th</sup> May 2022 Industrial Visit under the supervision of Dr. Janmoni Borah, Dr. Smriti Baruah.

Prasar Bharati Doordarshan Kendra visit:

Around 11:20 am, the team reached the Prasar Bharati Doordarshan Kendra, Tirupati, and the staff from the industry started explaining the following working sections parallelly by splitting the students into 2 batches:

1. Studio
2. Production Control Room (PCR)
3. Outdoor Broadcasting (OB)
- 4.

In-studio, they briefed about how the program will be recorded and how the same has been converted into video and audio formats. There is a camera for recording video signals and a microphone for audio signals. In program controlling room (PCR), they explained how the video and audio signals are mixed and controlled. The principles behind each technique and tools used for editing were explained in detail to the students. In outdoor broadcasting (OB) section, they showed how recordings would be done in outstations. Around 3.30 pm, we completed the visit in Doordarshan.



**Sanchar Nigam Limited visit:**

After completing the lunch in a nearby hotel, we reached BSNL, Tirupati, by 5 pm. The staff from the BSNL welcomed our students and split our students into 2 batches. They started explaining to our students about

1. Mobile Switching Center (MSC)
2. Base Station Controller (BSC)
3. Base Transceiver Station (BTS)





In Mobile Switching Center (MSC), they started briefing on how voice calls and messages are routed. In Base Station Controller (BSC), they detailed about management and cell configuration data of the radio network. In Base Transceiver Station (BTS), they elaborated on how the communication is established between the user equipment and a network.

The visit ended at 6.30 pm, we acknowledged the staffs in BSNL for their detailed explanation and started our journey back to MITS. By 10.30 pm, we have reached our institution.

We express our sincere regards to the Principal, the Management, HoD (ECE) & Other faculty of Electronics and Communication Engineering department, for their support and encouragement in organizing this visit.