REPORT ON INDUSTRIAL VISIT 23-24 FIRST YEARS (ACSC)

Along with our faculty cum class teacher M.RAVI sir,and we the students of first year from the department of BSC computer science and cognitive system have visited RTTC Hyderabad BSNL (Bharat Sanchar Nigam limited) ,Erragadda on 16th of September 2023.

Following is the description about the things we got to know there,

10:30 am to 11:20 am – Telephone switching

11:30 am to 12:20 pm – broadband and network lab

12:20 pm to 1:00 pm – Mobile technology lab

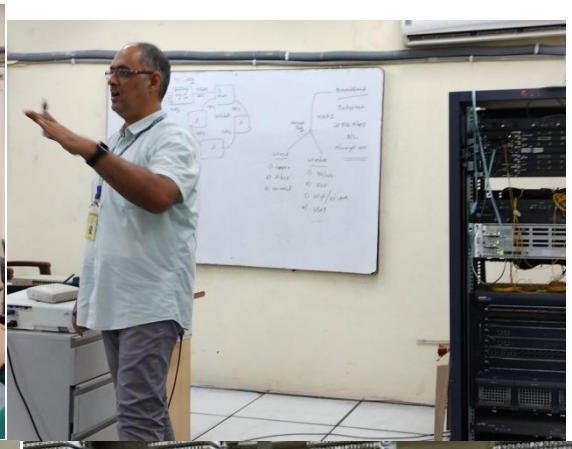
1. **Telephone switching lab -**

Faculty: David, sub division engineer
In telephone switching, the faculty has given the information about sampling, circuit switching, packet switching and a detailed explanation about working of terminal cord.
the further details about this session were-

- Bandwidth of Lan 100 mbps
- Bandwidth of landline 64 kbps
- Adult male 300 hz
- Adult female 1.5k hz
- Human voice spectrum Bandwidth 4k hz

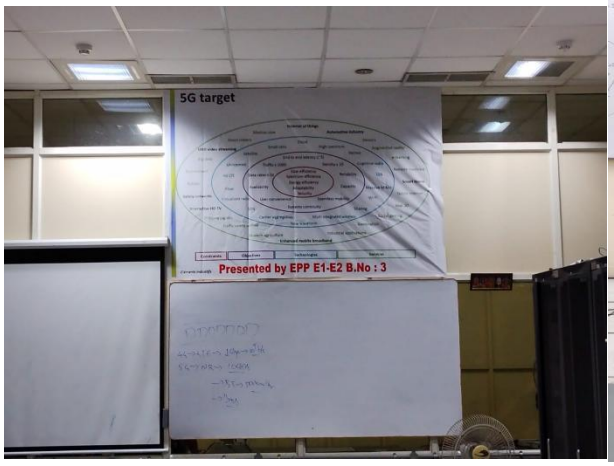
Sampling: Discrete intervals at high-speed voltages are taken to convert analog to digital (Niquistrat sampling)



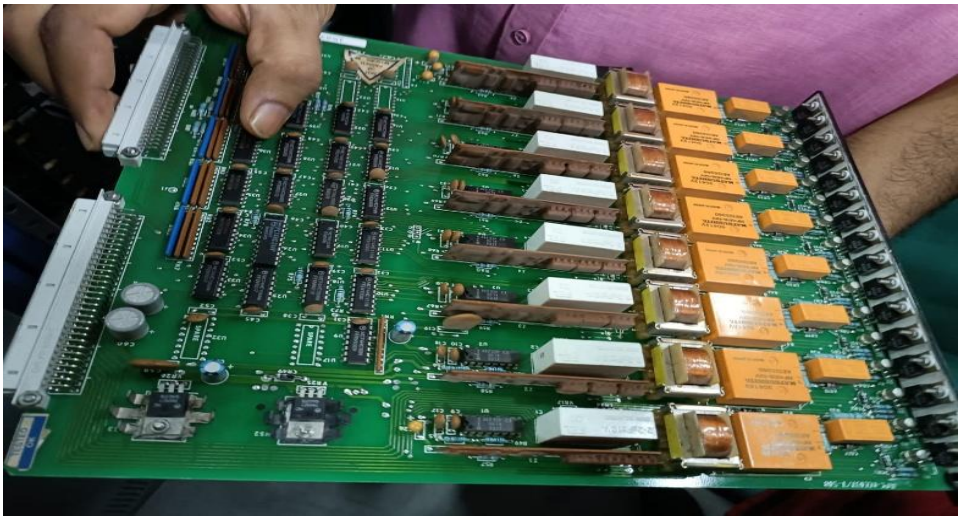







5G target
Presented by EPP E1-E2 B.No : 3





2. **<u>Broadband and network lab:</u>**

Faculty: R. Prashanth, sub division engineer

In this lab, the faculty has given the information about how the back-end networking of a company works. He also showed the routers and switches.
Other details are-

- Routing methods
- Parts of a router and its functioning
- Parts of a switch
- IP config

This session was very helpful for gaining additional knowledge regarding the computer networks



3. **<u>Mobile technology lab:</u>**

Faculty: Ramesh,
In this lab, the faculty explained about how the technology has changed from 2G to 5G and also gave few details about the upcoming 6G network.
the limitations also changed from BTS->Node B->e Node B
he also gave details about the functionalities and variants in the technology.
other details are-

- URLLC
- Cloud AWS
- Cone network
- OTS network

Our **HOD VARALAKSHMI** Mam and, **Faculty** cum **Class Teacher M RAVI** Sir initiated and took all of us to **BSNL INDUSTRIAL TRIP** and guided us from time to time.







