

A Report on BROADBAND TECHNICIAN TRAINING at RTTC, BSNL, PIMPRI-CHINCHWAD

Date & Time: 18-12-17 to 30-12-17, 10:00 AM to 5:00 PM

Venue& Place of Company: RTTC, BSNL, PIMPRI-CHINCHWAD,PUNE

Duration: 13 Days

Faculty Members: Prof. Prajakta A. More & Prof. Snehal A. Ghodake

Total Number of Students: 23

Organized By: Zeal College of Engineering & Research

Training was started with lots of excitement & enthusiasm. Students were asked to report by 10:00 AM to the RTTC,Pimpri,Pune.



Arrival at RTTC, BSNL Office.

Training was planned in 3 parts by the BSNL administration.

Part 1: Theoretical Base Building.

Part 2: Practical's and Hands on Training.

Part 3: Visiting BSNL Exchange office at Karvenagar.

From the very first day the training was started and had a introduction lecture on the basics of Data Communication. During this Introduction lecture the faculty member delivered simple and all the basic information related to data communication.

For 4-5 days the theory Lectures were conducted so as to clear the concepts of Broadband. During this some of the important concepts were covered which are listed below.

- Journey of NIB Project and its Objectives
- Architecture of NIB Project
- Protocols used at different Layers (OSI Model)
- IPv4 and IPv6 Header formats
- IP Addressing (Subnetting & Supernetting)
- UPS & SMPS
- Optical Fiber concepts
- Broadband Access Technologies
- Earthing
- Error Codes

Also students had got a deep knowledge of the above points but for better understanding it was necessary to have the practical's based on these concepts. In the second week they almost had all practical's and hands on training. This helped to clear all our doubts regarding the concepts which were delivered to students. For the practical's students were provided with different labs where they could performed the practical's. Each student had its individual kit or PC to perform the practical which helped to learned and performed individually.

List of Practical's carried out in the 2nd week

- Introducing Cisco Packet Tracer Software and implementing basic network.
- Crimping CAT 6 cable to prepare LAN Cable.
- TIER- II Switch
- Modem Configuration
- Wi-Fi Security
- ADSL Tester
- Optical Fiber cables
- Earthing



Wi Fi Security Settings



Modem Configuration



Measuring Earthing Parameters

Visit at BSNL Exchange at Karvenagar.

On 28th December 2017 we had a visit to the working exchange of BSNL for Pune which was at Karvenagar. The visit started at 3:00 PM and was continued till 5:00 PM. BSNL Faculty members guided in the Exchange office. During this visit students were divided in 2 groups. First we visited the BNG which was so big and one of the staff of the Exchange explained all the components of the BNG. Students also asked questions and they cleared our doubts. Then we visited the MDF where all were amazed to see such a cluster of wires. These wires were the Subscriber links which were given to the subscriber from the exchange. Later we visited the DSLAM which was combination of 2 DSLAM to have more ports. Here also the students asked a lot of questions and all the staff explaining us was expert and were very confident in their answers and also none of the questions by the students were left.



Exam Day:

For this entire course we had lots of things to know and learn and finally by giving an exam we could have a Certification in Broadband Technician. A Practical/Oral exam was conducted by Prof. Wankhede and later online test was taken on Tabs which recorded our whole test.

Review & Valedictory:

We all really had a great time throughout the training and it was end of course. We had a small farewell program where the Feedback was taken by the students. The students gave good feedback and also added their suggestions to the course, gave a vote of thanks to the entire BSNL team.

Thus the beautiful journey of our training reached to a happy and beautiful conclusion wherein each and every one gain lots of knowledge based on broadband & data communication on making this event a memorable event in our entire college life.

Training Co-ordinator:

Prof. Prajakta A. More &

Prof. Snehal A. Ghodke