

# **Dept. of Electronics and Communication Engineering**

## **A Report on Industrial Visit of III year ECE Students to BSNL (RTTC)**

The Third year students of Electronics and Communication Engineering Department went to an Industrial visit to Bharat Sanchar Nigam Limited (Regional Telecom Training Centre), Maraimalai Nagar on 24<sup>th</sup> July 2013. Total number of students was 45 and the students were accompanied by 2 faculty members.

1. Mr. M. Edwin Prabhakaran      Lecturer / ECE
2. Mrs. S. Ezhil Rani              Tech. Asst / ECE

The students left the University at 9:45 AM and reached BSNL RTTC at 11:00 AM. The crew was welcomed by Mr. M. Krishnakumar (Principal of BSNL RTTC). Crew moved to power generation lab where students were taught about power management of telecommunication networks. Students were made to analyse Silicon controlled rectifiers. Then the crew moved to a seminar hall where they heard a long seminar about optical networks given by Mr. K. Ramesh. It was useful to students to understand different modes of fibers, difference between glass fibers and plastic fibers. Different varieties of optical fibers were shown to students which created an interest among students. Students were also exposed to fault localization and rectification in optical fiber cables between telephone exchanges.



In addition to the above mentioned topics students were shown many telecommunication circuits along with brief lectures on Synchronous transport modules – level 1 to level 256, Optical Wave Division Multiplexing (OWDM), Multiple Add Drop Multiplexer (MADM) Implementation, Creation of GPON (Gigabit capable Passive Optical Network)

The optical fiber session was followed by a session on Global systems for mobile communications (GSM). Students felt the essence of mobile communication through the lecture. They learnt about call

processing scenario in GSM. Then the speaker turned his attention towards WiFi and ended the discussion with a comparison between WiMAX and WiFi. Students' queries about broadband Modems were answered by BSNL faculty. Then the students were given a brief introduction about configuring high speed switches and routers. This discussion on high speed networks became the final lecture of Industrial visit.

After the purpose of industrial visit is satisfied, Students thanked all the BSNL faculty members for spending their precious time with them. Visitors left BSNL RTTC at 2 PM and reached St. Peter's University campus at 3:20 PM.

