

INDUSTRIAL VISIT BY COMPUTER SCIENCE & ENGG. STUDENTS

Place and date of visit: My FM 94.3 ; **Date-** 25th January 2018

Time Scheduled: 1:00- 4:00 P.M

No. of Students & Faculty Participated: 20 students with 3 Faculty Members.

Branch of Participated Students: Electronics & Communication Engineering, Computer Science.

Purpose of Visit: To Endow the students with the practical knowledge of transmission and reception of Signals, knowing the concept of Modulation and its types, errors in transmission , difference between FM and AM, Frequency band used in FM, Set of equipment used in trans-receiver station.

Lecture description regarding FM Unit by Unit Head Mr. Prashant Kukreti of My FM 94.3 :

- **Transmitter** - Takes the electrical output of a microphone and then modulates a higher-frequency carrier signal and transmits it as radio waves.
- **Receiver** - The broadcast message is received by the receiver and decodes the radio sine waves.
- **Antenna** - An antenna is required for transmission; it is also required to receive radio waves. The main use of an antenna is to send radio signals.
- **Aerial feeder** - system of feeding HF-Energy (power) in the antenna.
- **Transmission lines** - Transmission lines are used to transfer the radio signals from one location to another. For example, a transmission line was used in Luftwaffe, Germany during WW II to send information from camps back to their base.
- **Connectors Interface panel remote control** – This is used to connect various different types of the equipment used in a radio station. To input broadcast data into a transmitter an interface panel will need to be used.
- **Cable** –A cable can be used to connect the various devices.
- **Equipment Rack** – To hold all equipment in a secure and logical manner, an equipment rack will be used.
- **Power protection equipment** – For holding equipment's in a stable, secure and logical manner.
- **UPS** – For uninterrupted power supply.
- Broadcasting service (FM sound broadcasting) - 88 to 108 MHz.
- The ministry of broadcasting in India set up more than (86) FM Radio to all parts of India till date.

List of FM Stations in Ajmer:

- 92.7 BIG FM
- 94.3 MY FM
- 104.8 Radio City
- 106.4 Tadka

Location Pictures:



Office of MY FM 94.3

In Picture: Er.Nidhi Verma ,Er.Manish Kumar & Nalin Chaudhary with students



In Picture: Mr. Prashant Kukreti, Ms Poornima Sharma briefing the students



FM tool exhibited by RJ Pia



Students listening Mr. Prashant Kukreti

In Picture: Shobha Rani, Beauty Rani, Deepshikha, Pragya Sharma, Chandraprakash, Yogendra & others.

News published in Newspaper :



Outcomes:

Students showed their interest to listen the lecture by Unit Head Mr. Prashant Kukreji ,they take the selfie with RJ Pia and finally understand the concept of radio FM. In faculty outlook more and more such visits will be helpful for the students to impel them to review the concepts of Engineering.