



**POTTI SRIRAMULU CHALAVADI MALLIKHARJUNA RAO**  
**COLLEGE OF ENGINEERING & TECHNOLOGY**

Approved by AICTE, NEW DELHI and Affiliated to JNTU, Kakinada

Sponsored by : SKPVV Hindu High Schools Committee, Estd : 1906

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**Department of Electronics and Communication Engineering**

**Industrial Visit**

**All India Radio, Vijayawada**

**AM Radio Transmitter, Numbur.**

Places : All India Radio , Vijayawada; AM Radio Transmitter , Numbur.

Date : 27/2/2020 II B.Tech (ECE) Students Visited All India Radio , Vijayawada and AM Radio Transmitter , Numbur on 27th February 2020.

On receiving the letter of permission from All India Radio , Vijayawada, students with two faculty members went to an industrial visit, All India Radio , Vijayawada on 27/02/2020. We all assembled at the college at 8:50 a.m. and left the college in a college buses. We reached the All India Radio, Vijayawada at 9:50a.m. They gave brief introduction to All India Radio functions under vividabharathi, Rainbow. Local Radio Station serve small communities showcase local culture and broadcast. Broadcasting laid foundation stone for 10 KW FM transmitter at Vijayawada.

We left the premises at 2:30 p.m and had a lunch. we reached the All India Radio, Numbur at 3:30 p.m and they gave brief introduction about the **AM Radio Transmitter**. They are received us at the entrance and gave a brief introduction to how to transmit the FM programs and send to transmitter. We left the premises at 5:00 p.m.

We met the authorities there and entered in to the studio. Then they took us to the studio where they conduct gathering program. they gave us some technical information about the position of lights i.e. backlight, front or key light & kill Light and cameras, as they are the most important part of their programme. Then they showed us the working of control room. Then we were taken to Audio control room where he showed us the audio console, from which they control the audio signals by altering the frequencies of sound.

In All India Radio, we visited the entire studio like control room, music studio, playback studio, talks studio, Transmitter Section, recording room; etc. All the students highly enjoyed their entire visit. It was an amazing experience of fun & learning, which we all have memorable reminiscences. Last but not the least; the trip was exceptionally good & knowledgeable to all of us. We look forward to make such visits in future too as technical visits gives practical and better understanding of subjects to students and update their knowledge. We thank the staff for giving such a wonderful opportunity.

**Technical Details observed in All India Radio :**

1) AM tower is about 200 Meters Height, Contains Transmitter and antenna Units, transmits program Signals within the radius of 120km.

2)FM channels are Broadcasted Under the banner of Vivid Bharathi & Rainbow.

3)In order to Cover entire AP several Relay stations have been setup at various places.

4)Power systems setup at a worth of 100 Crores for the purpose of telecasting of Programs.

5)Audio and Video frequencies are fed simultaneously at different frequencies.



**PSCMR College Students Gathering at All India Radio , Vijayawada**



**Explaining the operation of AM and FM transmitters**

**AM tower is about 200 Meters Height, Contains Transmitter and antenna Units**

**Faculty In-charge(s)**

**HOD, E.C.E**