

KLS Vishwanathrao Deshpande Institute of Technology

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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Report on Visit to All India Radio, Dharwad

The industrial visit of 4th semester students of ECE Branch along with Prof. Rohini Kallur and Prof. Suraj Kadli to All India Dharwad on 3rd July 2024 was accompanied by Mr. Ravi Honnalli and Mr. Venkatesh Prasad, Assistant Director, AIR, Dharwad.

All India Radio (AIR), also known as Akashvani or Akashbani, is an Indian state-owned public radio broadcaster founded by the Government of India, owned by the Ministry of Information and Broadcasting and one of Prasar Bharati's two divisions. It was established in 1936. It is the sister service of Prasar Bharati's Doordarshan, an Indian television broadcaster. Headquartered in the Akashvani Bhavan building in New Delhi, it houses the Drama Section, the FM Section, and the National Service, and is also home to the Indian television station Doordarshan Kendra, (Delhi).

In terms of the number of languages transmitted, the range of socioeconomic variety it serves, and the size of its broadcasting organization, Akashvani is the largest radio network in the world. AIR's home service comprises 420 stations located across the country, reaching nearly 92% of the country's area and 99.19% of the total population, and has programming in 23 languages and 179 dialects.

Students understood the concept of Modulation, Azimuth angle, Elevation angle and also learnt about the need for these angles to track the geostationary satellite. Officials explained students about short wave, medium wave and FM wave. AIR Dharwad broadcasts signals upto 300Km in all directions from Dharwad.

Students visited Transmitting section which works on the frequency of 756KHz and understood the conversion of audio signal to electrical signal and mixing of the signals. Our student Miss Surabhi Kulkarni sang a song and it was recorded and played instantly. Technology behind the sound recording, sound processing as well as broad casting was explained by the officials.

After the visit to AIR Dharwad, students visited 200KW DRM transmitter @ Sattur, Dharwad. Here students understood the working of Simulcast Transmitter which works both in Analog as well as Digital mode. Officials explained our students about the broadcasting and how

any signal is processed and is transmitted. Students also learnt about the structure of Antenna and were wondered to know that each element from top to bottom is an antenna and is transmitting signals in the site. Students learnt about the Dummy load and SODA load conditions during Transmissions.

Overall the Visit to AIR, Dharwad gave an insight to students about the communication of AM wave and FM wave, also about the transmitter and the methods adopted to transmit any signal in a practical way.



