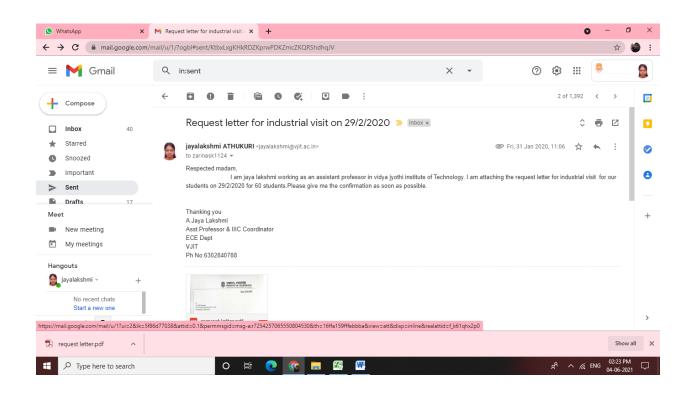
#### **<u>Request Letter and confirmation mail</u>**:

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY (Approved by ACTE, New Defni & Athlated to JNTU, Hydenabed) Date: 31/01/2020 To, The HR Manager, ACD Communications PVT. LTD. Cherlagally, Hydierabad. Respected Sin/Madam, SUB: Request for date confirmation for industrial visit of III year ECE students - reg. With reference to the subject cited above and as per the telephonic conversation we request you to kindly confirm the industrial visit date for our 60 students of III year ECE on 29/02/2020 to your company. Looking forward for your confirmation. Thanking you, 2010 Dr.K. Vasanth Inc-Goordinator (HOD - ECE) Aziz Nagar Gele, C.D. Poat, Hydensbad - 500 075. Phone : Of. 05413 235300 / 235399 Fax. (06413 - 235609 in mail : vjižtyci@grad.com weevyit.ac.in Scanned by CamScanner



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## Industrial visit Report:





**ECE** department under **IIIC** has visited "**ACD Communications**" located at Cherlapally, Hyderabad on **29/02/2020**. During this visit, students have acquired knowledge about

- $1. \ {\rm I.} \ {\rm The \ Hierarchy} \ {\rm of} \ {\rm an \ Antenna \ production}$
- 2. Design specifications required to manufacture an Antenna
- 3. Exposure to impedance Testing

4.An opportunity to watch radiation pattern measurement in anechoic chamber for ranges upto 40GHZ was highlight of the visit

#### **Industrial Visit Team**:

- Mr.Md.Akram,Assistant Professor, ECE department
- Mrs.E.Kalpana ,Assoc. Professor, ECE department & II ECE-D students

## List of Students:

S. NO.	ROLL NO.	NAME OF THE STUDENT
1	18911A04J1	A HARSHITA
2	18911A04J2	A VISHNU VARDHAN REDDY
3	18911A04J3	AVVALDAR VEENITH
4	18911A04J4	BADAVATH KALYAN
5	18911A04J5	BALA DUSHYANTH
6	18911A04J6	BANDULA SHARMILA
7	18911A04J7	BOORA SAI CHARAN
8	18911A04J8	BUKYA RAHUL
9	18911A04J9	CHALUVADI SAKETH
10	18911A04K0	CHAMANTHI AKSHITH
11	18911A04K1	CHANDINI TIRUPATI MAMIDWAR
12	18911A04K2	CHORAGUDI YAMINI SHRIYA
13	18911A04K3	CPJ KEERTHANA
14	18911A04K5	DUDYALA ANAND KUMAR
15	18911A04K6	EEDIGI PRATHYUSHA
16	18911A04K7	G USHA RAKSHITHA
17	18911A04K8	GOWLIKAR ABHISHEK
18	18911A04K9	GUGULOTH PREM CHAND
19	18911A04L0	GUNDLA AKARSHA
20	18911A04L1	GUNNE NIKHIL
21	18911A04L2	GUNTALA SHIRISHA
22	18911A04L3	GURRAM PUSHPA LATHA
23	18911A04L4	INALA NIKHIL SREEVEN
24	18911A04L5	JARA MADHUSUDHAN REDDY
25	18911A04L6	JARUPLA MANOJ KUMAR
26	18911A04L7	K V N P S R DATTATREYA
27	18911A04L8	KALAL ABHILASH
28	18911A04M0	KOTAGALLA REVANTH
29	18911A04M1	KUNDETI SAI PRATYUSHA
30	18911A04M2	MACHARLA POSHETTY VISHNU VARDHAN
31	18911A04M3	MADABHUSHI TIRUMALA ADARSH RAGHAVAN
32	18911A04M4	MANNE AKSHAYA
33	18911A04M5	MANPATI RAVALI
34	18911A04M6	MARADANI PRAVALLIKA
35	18911A04M7	MOHAMMAD ABDUL AHAD
36	18911A04M8	NANNURI KOWSALYA CHOWDARY

37	18911A04M9	PANJALA SAI KUMAR
38	18911A04N0	PATAKOTA VENKATA RAMI REDDY
39	18911A04N1	PEDIREDLA MEGHANA
40	18911A04N2	POLAMURI MANIMALA
41	18911A04N3	POTHULA VENKATA SAI KRITHIK
42	18911A04N4	PUPPALA SAI SRUTHI
43	18911A04N5	RAMACHANDROJU KALYAN KUMAR
44	18911A04N6	RENTALA AKHILA
45	18911A04N7	SADA MAHENDER
46	18911A04N8	SAMA VINEETH REDDY
47	18911A04N9	SHAIK ABDUL REHMAN AHMED
48	18911A04P0	SHETTUKADI SOWMYA
49	18911A04P1	SIMHARAJU SRIKAR KARTHIKEYA
50	18911A04P2	SIRIKONDA SAIRAM
51	18911A04P3	SIRIPIREDDY LOKESH REDDY
52	18911A04P4	TALARI VAMSHI
53	18911A04P5	THOTA AKHIL
54	18911A04P6	THOTA SRI RATNANJALI
55	18911A04P7	U THIRUPATHI
56	18911A04P8	V CHINMAYEE SRICHANDANA
57	18911A04P9	V VARSHA
58	18911A04Q0	YADAVALI SHANTI
59	19915A0419	MOHAMMAD ABDUL TARANNUM TABASSUM
60	19915A0420	MOTHAE KIRAN
61	19915A0422	PAKALA RAJINI
62	19915A0423	TEDDU LAXMI
63	19915A0424	U VISHWANTH



# Vidya Jyothi Institute of Technology

(Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)

Dr.P.Venugopal Reddy Ph.D, F.A.P.A.Sc., F.T.S.A.Sc., DIRECTOR

e-mail: director@vjit.ac.in Ph. No: 9848212388

Hyderabad 13/09/2019

THE ADG (Admin) All India Radio (AIR) Saifabad, Opp: Andra Pradesh Assembly hall rocklands, Hyderabad -500 156

Respected sir,

SUB: Request for Industrial Visit to All India Radio (AIR )-Reg.

Vidya Jyothi Institute of Technology is one of the premier institutions established in 1998 with AICTE approval .The institution is affiliated to JNTU Hyderabad and is NBA Accredited. Students of ECE Department of our college are planning to organize an industrial visit to **All India Radio**. I, therefore request you to permit a 4 batches and each batch consists of 35 student members to visit your premises on any one day between 16/09/2019 to 21/09/2019.

Looking forward to your positive response,

Thanking you

Yours Sincerely,

OV

(P.Venugopal Reddy)

Aziz nagar Gate, C.B. Post, Hyderabad-500 075. Phone: Off. 08413 235300 / 235399 Fax: 08413 – 235509 e-mail:vjithyd@gmail.com www.vjit.ac.in

TO



## All India Radio (AIR)

Saifabad, Opp: Andra Pradesh Assembly hall rocklands, Hyderabad -500 156

То

The Director, Vidya Jyothi Institute of Technology, Aziz Nagar Gate, C.B. Post, Hyderabad - 500 075.

Respected Sir/Madam,

Sub: Industrial visit to All India Radio (AIR) Confirmation Regarding.

आकाशव

Permission is granted for a industrial visit for 4 batches and each batch consists of 35 student members to visit our premises on 18/09/2019 and 19/09/2019.

Date: 14.09.19

(Sanjay Kumar) THE ADG (Admin), All India Radio (AIR) Hyderabad -500 156



VIDYA JYOTHINSTITUTE OF TECHNOLOGY DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Report on

Industrial Visit to All India Radio (AIR), Hyderabad



#### **INTRODUCTION**

Radio Broadcasting was pioneered in India by the Madras Presidency Club Radio in 1924. The Club worked a broadcasting service for three years, but owing to financial difficulties gave it up in 1927.

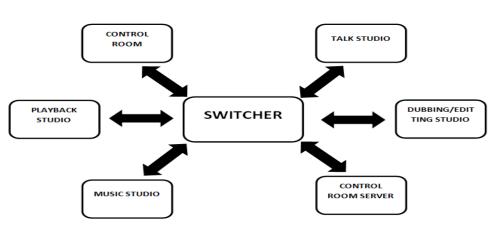
In the same year (1927) some enterprising businessmen in Bombay started the Indian Broadcasting Company with stations at Bombay and Calcutta. This company failed in 1930, in 1932 the Government of India took over broadcasting. A separate department known as Indian Broadcasting Service was opened.

The Service was later designated 'All India Radio' (AIR) and was placed under a separate Ministry-the Ministry of Information and Broadcasting. The AIR is controlled by a Director General, who is assisted by several Deputy Directors and a Chief Engineer.

Broadcasting, in its significance, reach and impact, constitutes the most powerful medium of mass communication in India. Its importance, as a medium of information and education is particularly great in a vast and developing country like India where the reach of the printed word is not very wide or deep. While the total circulation of all the newspapers in India, including both English and Indian language papers, is around 8 million, there are, according to a recent estimate, nearly 400 million (out of a total population of 625 million) potential listeners to All India Radio.

Broadcasting in India is a national service, developed and operated by the Government of India. All India Radio (also known as Akashvani) operates this service, over a network of broadcasting stations located ail over the country.

As a national service, catering to the complex needs of a vast country. All India Radio seeks to represent in its national and regional programmes, the attitudes, aspirations and attainments of all Indian people and attempts to reflect, as fully and faithfully as possible, the richness of the Indian scene and the reach of the Indian mind.



#### **BLOCK DIAGRAM OF STUDIO**

#### CONTROL ROOM STUDIO CONSOLE



The Studio console is the major equipment used in the STUDIO CONTROL ROOM. It is with the help of this device the different programmes that are produced and those that are received from other stations routed to air. The various inputs to the console are the programmes from various studios, the programmes that are received using a C BAND receiver which is broadcasted from Delhi and the programmes that are received via an ISDN link from Hyderabd. The Outputs from the console is taken through two master amplifiers among which one is active at a time. This output is directed to the STUDIO TRANSMITTER LINK (STL).

#### CONCLUSION

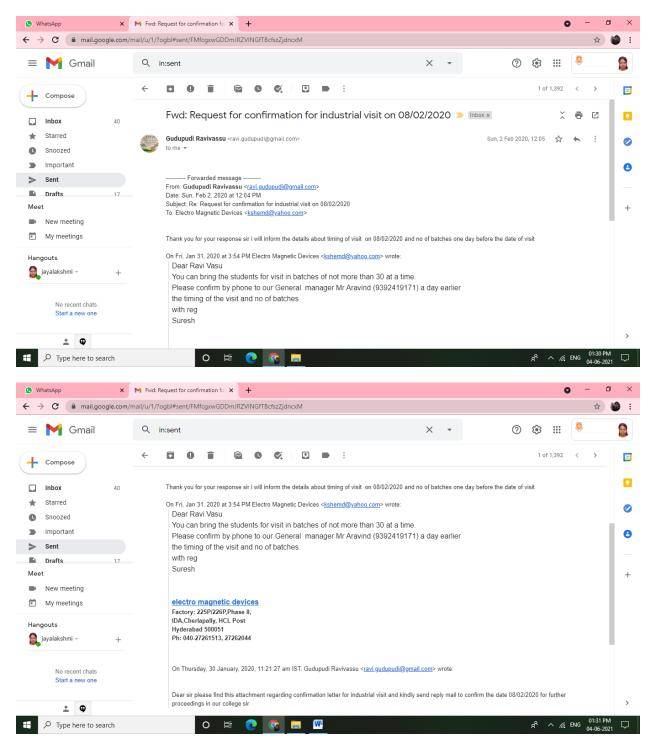
Broadcasting, in its significance, reach and impact, constitutes the most powerful medium of mass communication. In India, All India Radio operates this service, over a network of broadcasting stations located over the country. Starting with 6 broadcasting stations in 1947, the AIR today has a network of 82 broadcasting stations.AIR's programme pattern combines three main elements: a national channel providing programmes of countrywide interest and significance, a zonal service from each of the four metropolitan centers (Delhi, Bombay, Calcutta and Madras); and regional services from individual stations each catering to the needs and interests of its respective area.

Currently there are two complexes in AIR Thrissur, **Studio cum office complex** and the **Transmitter complex**. In studio complex, there are three studios, MUSIC, TALK and the PLAYBACK. The first two together called to be the recording studio facilitates sound recording and mixing whereas the latter helps in coordinating the programs, announcements and advertisements. The Studio console is the major equipment used in the STUDIO CONTROL ROOM. The various inputs to the console are the programmes from various studios, the programmes that are received using a C BAND receiver which is broadcasted from Delhi and the programmes that are received via an ISDN link from Calicut and Thiruvananthapuram. The Outputs from the console is taken through two master amplifiers among which one is active at a time. This output is directed to the STUDIO TRANSMITTER LINK (STL). This further route the programs to TRANSMITTER at Avanoor.

The source to the transmitter complex is also realized using MICROWAVE, FM TRANSMITTER, ISDN or BSNL DIAL UP links. In AIR, transmitter performs amplitude modulation in which the information is added to the radio signal by varying its amplitude. The transmission frequency is at **630 kHz** generated by a quartz crystal oscillator. RF driver stage provides the driving power required to develop an output of 100 KW to the final amplifier. High level anode modulation is used using a class B modulator stage. The AF Stage supply the Audio power required to amplitude modulate the final RF stage. The modulator stage consists of two CQK 25 ceramic tetrode valves working in push pull class B configuration. The drive stages upto the grid of the modulator are fully transistorized. The transmitter complex is also equipped with various control and interlocking systems. Due to the high power evolved, cooling systems are also provided, utilizing ionized air, vapor and condensed vapor cooling techniques. The transmitter complex is also equipped with a HT room for providing the required power supplies.

There is also an ATU to match the feeder line impedance to the mast impedance of MW transmitter for maximum transmission of power, located between mast base and the feeder line. The information in its modulated form is further given to the self-radiating mast provided with proper earthing.

#### **Request and Acceptance mail from Industry:**



Industrial Visit Report with photos:











**ECE** department under **IIIC** has visited "**Electro Magnetic Devices**" at Cherlapally, Hyderabad on **08/02/2020**. During this visit, students have acquired knowledge about

- 1. The core materials required for design of Transformers.
- 2. Assembling and Lamination of Transformers.
- 3. Manufacturing of Transformers.
- 4. Testing of Transformers.
- 5. Understood how to manufacture different sizes of Transformers and Electromagnetic Devices.

#### **Industrial Visit Team**:

- A.Jaya Lakshmi, Assistant Professor, ECE department
- G.Ravi Kumar, Assistant Professor, ECE department & II ECE-C Students

## List of Students:

S. NO.	ROLL NO.	NAME OF THE STUDENT
1	18911A04C1	ACHARY BHASWANTH
2	18911A04C2	ADLA RAJASRI
3	18911A04C3	AEDIRA VARSHINI
4	18911A04C5	ANJALI GARG
5	18911A04C6	BANDAMEEDI SRIKANTH
6	18911A04C7	BHAIRI DHARANI
7	18911A04C8	BODDU SAI CCHARVI REDDI
8	18911A04C9	BODDU SANDEEP
9	18911A04D0	BYAGARI RAKESH
10	18911A04D1	CHITHANOORI MANIKESHWAR
11	18911A04D2	DASARI DINESH
12	18911A04D3	DINGARI SRIHARSHINI
13	18911A04D4	EDULAPALLY KOUSHIK
14	18911A04D5	FURQUAN AHMED DANISH
15	18911A04D6	G VIJAY
16	18911A04D7	GADDAMIDI SAI PRASHANTH REDDY
17	18911A04D8	GOLLA CHANDI PRIYA
18	18911A04D9	GOLLA SRIKANTH
19	18911A04E0	GUNDEPUDI PRUDHVIRAJ
20	18911A04E1	J SUNITHA
21	18911A04E2	JERRIPOTHU VAMSHI BABU
22	18911A04E3	JIGIDARLA BHAVANI
23	18911A04E4	K SAI TEJA
24	18911A04E5	K SREE SAI CHAITANYA
25	18911A04E6	KAMBALA VENKATA MAHESH
26	18911A04E8	KAVALA BHANU TEJA V S N SAI
27	18911A04E9	KORUKONDA MANILA
28	18911A04F0	KOSGI NANDINI
29	18911A04F1	KOTHAKAPU DEEKSHITH REDDY
30	18911A04F2	MADHURI KODIYALAM
31	18911A04F3	MALREDDY SHIVANAND REDDY
32	18911A04F4	MANDE RAVI TEJA
33	18911A04F5	MANDUMULA AKHILA
34	18911A04F6	MAREPALLY RAKESH

35	18911A04F7	MEKALA NAVYA
36	18911A04F8	MOHAMMED FAHAD MEHRAJ
37	18911A04F9	MOHD ASLAM MOHIUDDIN
38	18911A04G0	NAYAKAM AISHWARYA
39	18911A04G1	NEHA K
40	18911A04G2	NUKA RUSHMITHA
41	18911A04G3	NUNE SAKETH
42	18911A04G4	P DEEKSHITHA
43	18911A04G5	P VARUN KUMAR
44	18911A04G6	PATLOLLA CHANDRA SHEKAR REDDY
45	18911A04G7	POTHIREDDYPALLI VENKATA SRI HARSHA
46	18911A04G8	RAVIKANTI SRAVYA
47	18911A04G9	REPAKA BHOOMIKA
48	18911A04H0	SAICHARAN PARASHARAM
49	18911A04H1	SALIBINDLA VINEETH REDDY
50	18911A04H2	SALOLLA VIVEKANANDA
51	18911A04H3	SANDEPAGU VIJAY KUMAR
52	18911A04H4	SANGEM LOKESH
53	18911A04H5	THOTA ROHITH
54	18911A04H6	THUMMALABAVI SANKSHAY REDDY
55	18911A04H7	U.GOPI PRIYA
56	18911A04H8	YEDDANAPUDI VARUN
57	18911A04H9	YERRA RUCHITHA
58	18911A04J0	YERRAMSETTI MANIPRIYA
59	19915A0413	KORRA VEERABHADRU
60	19915A0414	MADDI SHIVA PRIYA
61	19915A0415	MADUGULA SRIVANI
62	19915A0416	MAHIMA SINGH
63	19915A0417	MANASA VEENA D
64	19915A0418	MEDI MOHAN SAI
65	19915A0421	NEELI SRAVANI SANDHYA
66	17911A04L1	KASHAPOGU RAHUL SMITH