

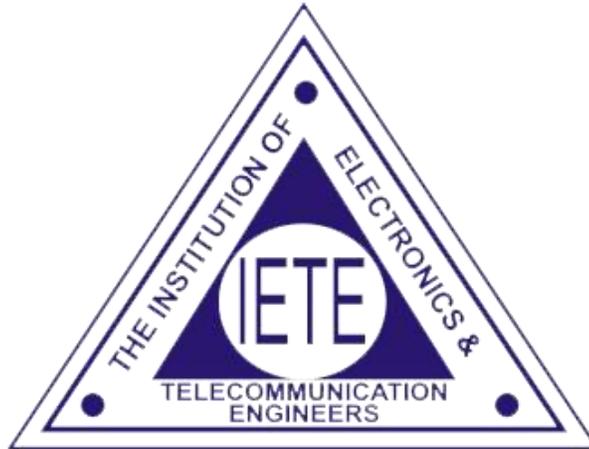


**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**Academic Year 2015-2016 (Even Semester)**

**THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS**

**IETE STUDENTS' FORUM (ISF)**



**REPORT  
OF  
PROJECT EXHIBITION  
Held on 11<sup>th</sup> March 2016**

**And**

**TECHNICAL VISIT AT  
DOORDHARSAN, HIGH POWER TRANSMITTER,  
KUMBAKONAM**

**10<sup>th</sup> February 2016**

## **Over view of the Event**

The Department of Electronics and Communication Engineering, Kings College of Engineering had organized an event titled “**Project Exhibition**” on 11.3.2016 for the B.E third year ECE IETE student members under the IETE students’ Forum.

The Event was organized with prior permission and guidance of the Hon. Principal Dr.S.DuraiRaj and Mrs.T.Shanthi, Associate Professor and Head, ECE department, Kings College of Engineering.

The Faculty of ECE Department Mr.T.Jeyaseelan AP, IETE Students’ Forum (ISF) coordinator coordinates this event. The 47 IETE student members of B.E (ECE), third year get benefitted in this event.

Mr. T. Jayasankar , AP/ECE ,Anna University , BIT Campus have been invited for the event as chief Guest.

The Event was started with the presence of chief Guest Mr. T. Jayasankar , AP/ECE ,Anna University , BIT Campus at 11.00 A.M in ECE department Lab.



Mrs.T.Shanthi, Associate Professor and Head, ECE department honored the invited chief guest for the event.



Mrs.T.Shanthi, Associate Professor and Head, ECE department honored the invited chief guest for the event.



The student batches at Project exhibition on 11.03.2016.



A Batch of IETE Student members presents their work to the chief quest during the Project exhibition on 11.03.2016.



studentmembers demonstrate their Project to the Resource Person Mr.T.Jayasankar, Assistant professor , ECE department Annauniversity BIT campus and the Mrs T.Shanthi Associate Professor & Head, ECE department, Kings College of Engineering during the circuit exhibition

**List of Students Attended Innovative Circuit Exhibition on 11.3.16**

<b>YEAR/SEM</b>	<b>S.NO.</b>	<b>NAME OF STUDENT</b>	<b>Class &amp; Section</b>
<b>III/VI</b>	1	KRISHNAVENI.S	<b>III ECE 'A'</b>
	2	ANNALAKSHMI.A	
	3	KISHORE.G.K	
	4	ISHWARYA PILLAI.M	
	5	DEEPIKA.L	
	6	JASMINE.K	
	7	BARGAVI.G	
	8	JAYALAKSHMI.M	
	9	ABINAYA.A	
	10	ELAMATHI.M	
	11	AJEETHKUMAR.V	
	12	JEEVA.M	
	13	ARAVIND.K	
	14	AKSHAYA.A	
	15	KIRUTHIKA.B	
	16	MANGALA NAYAGI.S	<b>III ECE 'B'</b>
	17	NIVETHA.R	
	18	NOORJAHAN.S	
	19	PADMAPRIYA.K	
	20	PAVITHRA.S	
	21	PREETHI.M	

<b>III/VI</b>	22	PREETHIKA.V	
	23	PRIYA DARSINI.S	
	24	PRIYA DHARSHNI.K	
	25	PRIYANKA.M	
	26	PRIYANKA.R	
	27	RAJAGOWRI.V	
	28	RAJASRI.E	<b>III ECE 'B'</b>
	29	RAJESHWARI.R	
	30	SALAM BEGUM.R	
	31	SHALINI.K	
	32	SHOBIKA.S	
	33	SINDUJA.S	
	34	SRIDEVI.A	
	35	SWATHI.R	
	36	SUSHMITHA.P	
	37	POTHUMSELVI.R	
	38	PAVITHRA.E	
	39	PRIYANGA.V	
	40	SHYAMALA.K	
	41	MANJULAVANI.H	
	42	MANIKANDAN.D	
	43	SHANMUGA PRIYA.K	
	44	NABINIYA.M	
	45	SUSANDHIYAA.R.S	
	46	SURUTHI.R	
	47	RAJARAJAN.V	

## **Over view of the Technical visit**

The Department of Electronics and Communication Engineering , Kings College of Engineering had Organized an Technical visit on 10.2.16 to Doordharsan Highpower Transmitter located in Ammachatram, Kumbakonam 60km from Kings College of Engineering, Thanjavur for the B.E final year ECE student IETE members (2012-2016 Batch) under the IETE students' Forum.

The visit was organized with prior permission and guidance of the Hon. Principal Dr.S.DuraiRaj and Mrs. T.Shanthi, Associate Professor and Head, ECE department, Kings College of Engineering.

Mr.T.Jeyaseelan AP/ECE, IETE Students' Forum (ISF) coordinator coordinates this technical visit. Total 19 students of B.E (ECE), final year IETE members along with coordinator have joined with this visit.

The one day visit was organized with prior permission of Mr. Somu, Assistant Engineer, Doordharsan Highpower Transmitter,Kumbakonam.

We reached to the Doordharsan premises at Kumbakonam at 10.30 A.M. The Student Chairman Ms. Barakathu Nisha of final year ECE 'A' gathered the student members at Doordharsan with IETE banner.

At the very beginning of our visit we met Mr. Sakthivel Assistant Engineer at 11.00 A.M. He introduces himself with student members and shared about Doordharsan with his Academic profile and work experience. The Students got inspiration about the field of communication and the achievements of Doordharsan with its objective of television broad casting to every public without revenue.



**IETE Student members at Doordharsan Highpower Transmitter, Kumbakonam on 10.2.2016.**

It was a good experience, which has provided an technical exposure to the final year students.



**IETE Student members along with Assistant Engineer Mr. Sakthivel at Doordharsan Highpower Transmitter, Kumbakonam on 10.2.2016**

Mr. Sakthivel presented lecture on uplink and downlink communication for television broadcasting. He briefly explained about the C- band and Ku- band frequencies used for uplink and downlink communication, the need for modulation, the characteristics of video signal, the type of modulation used for video and audio signals.



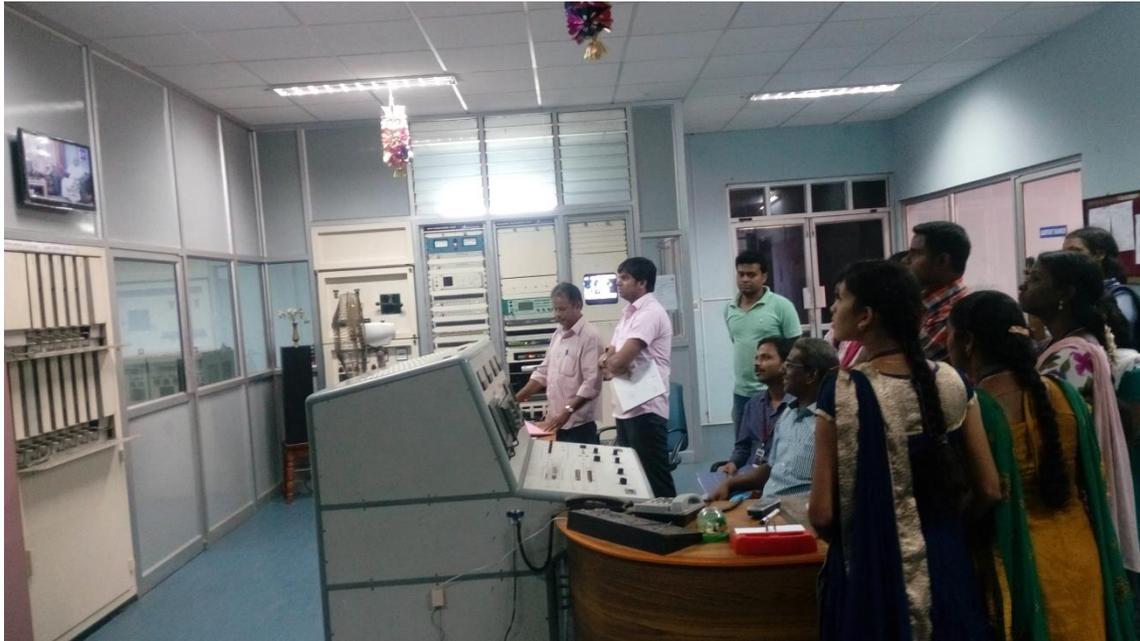
**Mr. Sakthivel Assistant Engineer presents an overview of communication system for Television broadcast by Doordharsan and students are listening to his lecture.**

The location of satellite in the orbit and the satellite communication for the DTH TV broadcasting network was explained by the Resource person. Students learned the communication system for the transmission and reception television signal.

During his lecture, the students were able to differentiate Point-to-Point communication and Point-to-Multipoint communication and to understand antenna design. The resource person insisted the students that Yagi antenna as a dipole antenna which is used only as receiving antenna and can be cascaded.

He highlighted that Doordharsan still uses Terrestrial communication for the broadcasting. His lecture brought the students to recap the basic concepts and fundamentals of communication system taught in their curriculum.

During the technical visit, the students gained Practical knowledge on Television signal broadcasting through the demonstration given by Mr. Sakthivel, Assistant Engineer, Doordharsan Highpower Transmitter, Kumbakonam.

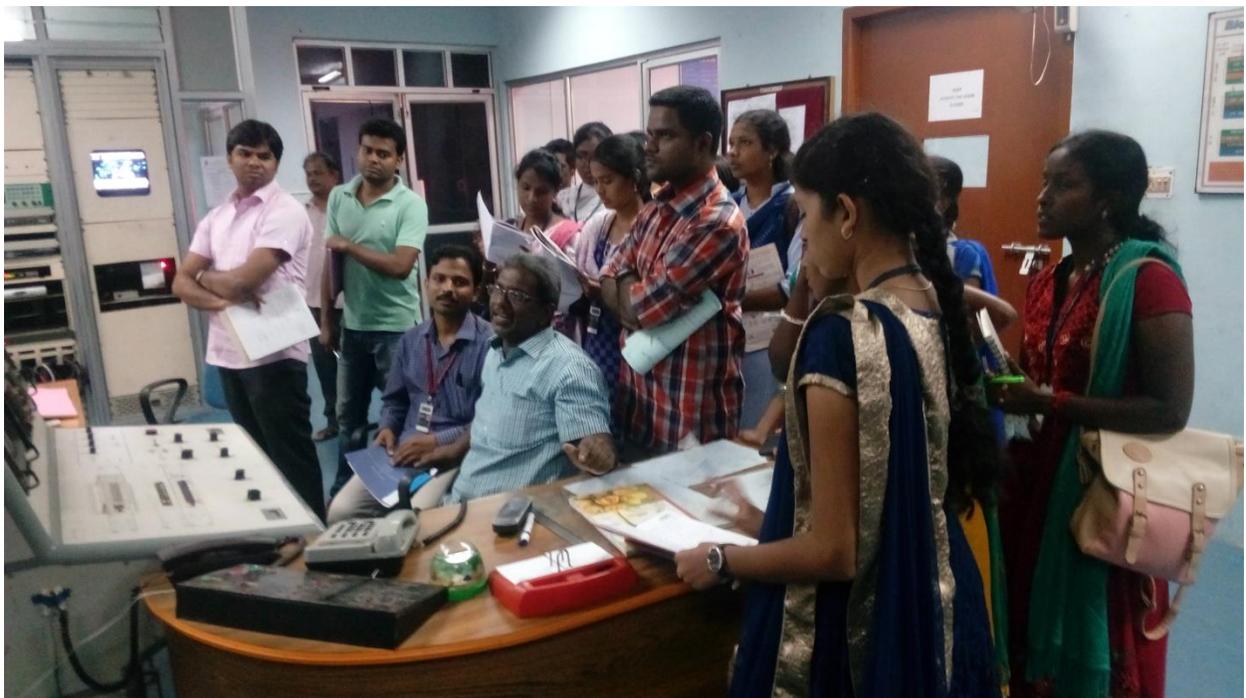


**Mr. Sakthivel, Assistant Engineer explains about how a program is received and transmitted to the public covering the broadcasting region.**

The uplink and downlink communication frequencies band for the transmission and reception of television signal was explained with the console.



**Mr. Sakthivel, Assistant Engineer interacted with students with an technical issue of delay in receiving of same video signals from different transmission centers**





During the technical session the resource person explained about visualization of TV signal, color carrier , sync pulse timings and how color video is transmitted using the existing monochrome television system

The Resource person explained about the function of Down link Receiver, Processing ,modulation, Video distribution Amplifier , combiner and RF power combiner to the students.

### List of Students Attended Technical Visit on 10.2.16

<b>S.No.</b>	<b>Student Name</b>	<b>Class &amp; Section</b>
1	DHANALAKSHMI.P	<b>IV ECE 'A'</b>
2.	ELAKKIA.R	
3.	EVANGELIN.J	
4.	GOMATHI.K	
5.	KASTHURI.U	
6.	GAYATHRI.N	
7.	BHARAKATHU NISHA.S	
8.	KAVYA.P	
9.	KAVITHA.P	
10.	KASIRAM.M	
11.	KADALVIZHI.K	
12.	HARITHA MOHAN	
13.	ELAKKIYA.M	
14.	ABINAYA.G	
15.	DEVI.T	
16.	NIVETHA.K	<b>IV ECE 'B'</b>
17.	RAHINI.R	
18.	PREETHI.J	
19.	SRIDHAR.V	<b>IV ECE 'C'</b>

Prepared By

T.Jeyaseelan,  
Coordinator

AP/ECE

IETE STUDENTS' FORUM (ISF)  
Kings College of Engineering.

 24/2/16

S.BHARAKATHU NISHA,  
Student Chairman  
Student, B.E (ECE)  
IETE STUDENTS' FORUM (ISF)  
Kings College of Engineering.

  
HOD/ECE 24/2/16





PRINCIPAL