

## MOU ACTIVITIES OF ECE DEPARTMENT

<b>S.No</b>	<b>Name of the Activity</b>	<b>Academic Year</b>	<b>Duration</b>	<b>Department</b>
1	Industrial visit to Data log control and solutions pvt.ltd.	2019 -20	1 Day	ECE
2	LED chip design fabrication and application	2019 -20	1 Day	ECE
3	Internet of things	2019 -20	5 Day	ECE



# Datalog Controls And Solutions Pvt. Ltd.

Plot No. 196, Phase-II, IDA Cherlapally, Hyderabad - 500 051.

☎ : 040-27261308. Mob : 098489 12743.

datalogcontrols@email.com, raghuprasad@datalogcontrols.com

www.datalogcontrols.com

To  
The Principal,  
**Geethajali College of Engineering and Technology,**  
Cheeryal(V), Keesar(M),  
Medchal District-501301

26/07/2019

Respected Sir,


We are glad to inform you that II B.Tech (ECE) students of your college, accompanied by faculty, have visited our company as per following schedule. They got familiarized on design and manufacturing of Wire Wound Resistors, Power Rheostat, Battery management systems and Load Banks for various applications. We hope this is useful to your students to get practical exposure.

	DATE	TIME	CLASS	FACULTY
1.	26 <sup>th</sup> July, 2019	9:45 AM – 12:30 PM	II B.Tech (ECE) Sections: A, C1	Ms.B. Suneetha Mr.U. Appala Raju
2.	26 <sup>th</sup> July, 2019	12Noon – 3:30 PM	II B.Tech (ECE) Sections : E, C2	Mr. M. Krishna Chaitanya Dr. R.S. Raju

Thanking you,

Yours faithfully,

For **DATALOG CONTROLS AND SOLUTIONS PVT LTD**

  
RAGHU PRASAD.G.K

Director & CEO



  
PRINCIPAL

Geethanjali College of Engg. and Tech.  
Cheeryal (V), Keesara (M), Medchal Dist.(T.S.)-501 301.

# LEDCHIP INDUS PRIVATE LIMITED

29A&B, Elelctronics Complex, Kushaiguda, Hyderabad-500 062



Naresh-8179409843 Mail: [nareshledchip@gmail.com](mailto:nareshledchip@gmail.com)

Website: [www.ledchipindus.com](http://www.ledchipindus.com) [www.kwalityphotonics.com](http://www.kwalityphotonics.com)

## CERTIFICATE

This is to certify that 53 students of II B.Tech (ECE) & 2 faculty members from Department of ECE, Geethanjali College of Engineering and Technology, Cheeryal(V), Keesara(M) visited LEDChip Indus PRIVATE LIMITED on 26<sup>th</sup> of July 2019 as part of industrial visit.

They were familiarized about the different types of manufacturing processes of Power & Segment LEDs.



K. VIJAY KUMAR GUPTA,

MANAGING DIRECTOR,

LEDChip Indus PRIVATE LIMITED



PRINCIPAL

Geethanjali College of Engg. and Tech.  
Cheeryal (V), Keesara (M), Medchal Dist.(T.S.)-501 301.

# LEDCHIP INDUS PRIVATE LIMITED

29A&B, Electronics Complex, Kushaiguda, Hyderabad-500 062

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Website: [www.ledchipindus.com](http://www.ledchipindus.com) [www.kwalityphotonics.com](http://www.kwalityphotonics.com)

## CERTIFICATE

This is to certify that 67 students of II B.Tech (ECE) & 2 faculty members from Department of ECE, Geethanjali College of Engineering and Technology, Cheeryal(V), Keesara(M) visited LEDChip Indus PRIVATE LIMITED on 26<sup>th</sup> of July 2019 as part of industrial visit.

They were familiarized about the different types of manufacturing processes of Power & Segment LEDs.



K. VIJAY KUMAR GUPTA,

MANAGING DIRECTOR,

LEDChip Indus PRIVATE LIMITED



PRINCIPAL  
Geethanjali College of Engg. and Tech.  
Cheeryal (V), Keesara (M), Medchal Dist.(T.S.)-501 301.

To  
The Principal,  
Geethanjali College of Engineering and Technology,  
Cheeryal (V), Keesara (M), Medchal District – 501301

Date: 25/07/2019

Respected Sir,

Subject: Permission for Industrial Visit to “**Datalog Controls and Solutions Pvt. Ltd., Cherlapally and LED Chip Indus Pvt. Ltd, Kushaiguda** on 26/07/2019– Regarding

An industrial visit is planned for **II B.Tech (ECE)** students to equip them with practical knowhow in manufacturing of power resistors, inductors, battery chargers, power supplies, high power LEDs, medium power LEDs etc.

All the students of II B.Tech(ECE) Sections A,B,C,D and E accompanied by 2 faculty members per section are planned to visit the above mentioned facilities of **Datalog Controls and Solutions Pvt. Ltd and LED Chip Indus Pvt. Ltd** on **26/07/2019 (Friday)** as per below schedule.

Industrial Visit for II B.Tech(ECE) Students - I Semester-AY-2019-20						
Department of ECE						
Class	Date	Section	Start Time (from College)	Place of Industrial Visit	No. of Students Planned to attend	No. of Faculty Planned to accompany
II B.Tech	26.07.2019 (Friday)	A	9:15AM	Datalog Controls and Solutions Pvt. Ltd, Cherlapally, Hyderabad	56	2
II B.Tech	26.07.2019 (Friday)	B	11:30AM	Datalog Controls and Solutions Pvt. Ltd, Cherlapally, Hyderabad	56	2
II B.Tech	26.07.2019 (Friday)	C1	9:15AM	Datalog Controls and Solutions Pvt. Ltd, Cherlapally, Hyderabad	28	1
II B.Tech	26.07.2019 (Friday)	C2	9:15AM	LED Chip Indus Pvt. Ltd., Kushaiguda	28	1
II B.Tech	26.07.2019 (Friday)	D	9:15AM	LED Chip Indus Pvt. Ltd., Kushaiguda	56	2
II B.Tech	26.07.2019 (Friday)	E	11:30AM	LED Chip Indus Pvt. Ltd., Kushaiguda	56	2

The class work for above students is rescheduled to **3<sup>rd</sup> August, 2019 (Saturday)**.

**LED Chip Indus Pvt. Ltd** has indicated that for the purpose of industrial visit, Rs.500 is charged per a section of 60 students. For two sections, total amount of **Rs.1000** is to be paid (in cash) to this company.

I request you to kindly accord permission for the above visit and also approve for necessary transport for the above visit.

Thanking you,

Yours faithfully,

*O.V.P.R. Siva Kumar*  
O.V.P.R. Siva Kumar  
Professor, Dept. of ECE  
Coordinator, Industrial Visits  
PRINCIPAL  
Geethanjali College of Engg. and Tech.  
Cheeryal (V), Keesara (M), Medchal Dist. (T.S.)-501 301.

→ Forwarded to Principal

*(Bas)*

*AW. HEC-  
Prof. Adh  
M*

*OK To Ale / Transport Plc.  
Siva Kumar*

Geethanjali College of Engineering & Technology  
(An UGC Autonomous Institution)  
Cheeryal(V), Keesara (M), Telangana - 501301  
Department of Electronics and Communication Engineering

## **Report on Industrial Visit to Datalog Controls and Solutions**

Datalog Controls and Solutions was established in the year 1998 with the objective of developing test and control systems indigenously and provide the industry with excellent data logging solutions. Datalog controls has been steadily progressing in achieving its objective of developing import substitute system for the industry. Encouraged by the industry, datalog has successfully designed, developed and commissioned some highly complex and technically challenging systems meeting the stringent quality requirements of the defense laboratories. Datalog has pioneered the design and development of computerized test systems such as thermal battery test systems high voltage, high current, fast acting electronic load banks, battery life cycle test systems, automated test systems for testing the power supplies etc. Datalog is specialized in understanding the specific requirement of the end users and designing the systems with user friendly application software. Typical applications of our products include research & development, incoming inspection, production testing, quality control and quality assurance. Each year we invest a large percentage of our revenue in research and development to enable us remain a professional producer of quality test systems to meet the highly increasing quality requirements of our customers. Datalog has passed the most extensive assessment possible, ISO 9001:2008, which includes engineering and design in the qualification process. This assures our customers will have highest level of quality possible. In a nutshell, Datalog is capable of designing & developing variety of custom built systems ranging from a microcontroller based hand held systems to highly complex missile battery test systems with their excellent quality, service and support.

Based on above industry profile, Department of ECE, Geethanjali College of Engineering & Technology management arranged an industrial visit to Datalog Controls and Solutions, Hyderabad for B.Tech ECE II yr I Sem A,E,C Sections students on 26th July 2019 in order to get practical knowledge on design and development of computerized test systems such as



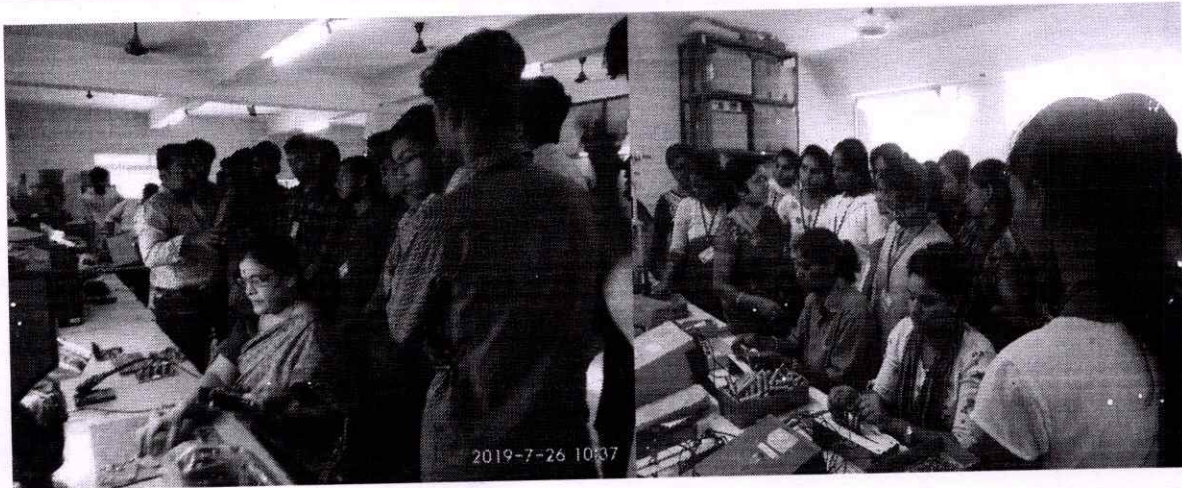
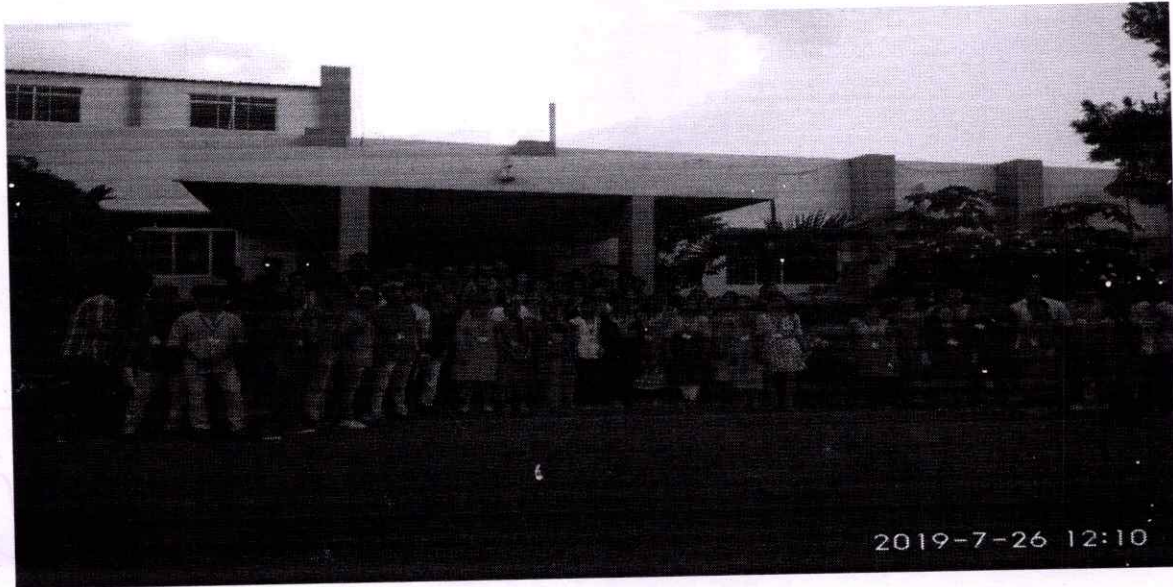
PRINCIPAL  
Geethanjali College of Engg. and Tech.  
Cheeryal (V), Keesara (M), Medchal Dist.(T.S.)-501 301.

thermal battery test systems high voltage, high current, fast acting electronic load banks, battery life cycle test systems, automated test systems for testing the power supplies etc.

Approximately 146 students visited the industry and gained the practical knowledge.

Many students actively interacted with industry experts and sought clarifications to their questions.

Along with students,4 faculty members accompanied the students and upgraded their knowhow.




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Cheyral (V), Keerasa (M), Medakal Dist.(C.S.)-501 301.

In above photographs, students were observing the manufacturing of load resistors and other components.


Report prepared by

  
Ms.B. Suneetha, GCET, Keesara

Member, Industrial Visits

  
Prof. QVPR Siva Kumar

Co-Ordinator, Industrial Visits

  
HOD, ECE

  
Principal  
Geethanjali College of Engg. and Tech.  
Cheerai (V), Keesara (M), Madchal Dist.(T.S.)-501 301.



Geethanjali College of Engineering & Technology  
(An UGC Autonomous Institution)  
Cheeryal(V), Keesara (M), Telangana - 501301  
Department of Electronics and Communication Engineering

## **Report on Industrial Visit to LED Chip Indus**

LEDChip group has irrevocably & firmly put India on the GLOBAL LED map by setting up an Ultra-Modern All-Automatic LED plant with Billion LEDs capacity.

LEDchip Indus P Ltd is a DIPP recognized STARTUP-INDIA enterprise, financed by SIDBI at Hyderabad. We have planned investment outlay of Rs200 Cr and signed MOU with Telangana Govt. We are continuously adding more capacity in next two quarters to reach 30 billion capacity in 2 years of operation

The LEDs produced are LM80 certified where the LEDs are subject to 9 months of accelerated Life test under severe conditions of 105°C & 85°C & 55°C - - at temperatures that are far higher than Hottest part of our country and that are higher than Boiling Water temperature, have highest Lumens in their class ensured by the use of high grade Chips, Silicone & Phosphors.

The highest standards of RELIABILITY are ensured automatically as all LEDs are produced untouched by the hand. The processes right through Chip bonding, to Gold wire bonding to Phosphor coating to testing-sorting-packing are carried out in air-conditioned dust free Class10K clean rooms, to meet highest & stringent standards.

Our 30 years of LED manufacturing experience has helped our Indian operations to successfully set up global Supply Chain creating cost advantages in High quality raw materials procurement & costs. Our engineers with combined experience of 80 man-years, have excelled in bringing the yield above industry benchmark with faster turn around times. This way our overheads & wastes have halved, giving us cost advantage in pricing. The Fast rising Chinese wages & power and land cost cost, have no doubt added to our competitiveness.

Based on above industry profile, Department of ECE, Geethanjali College of Engineering & Technology management arranged an industrial visit to LED Chip Indus, Hyderabad for B.Tech

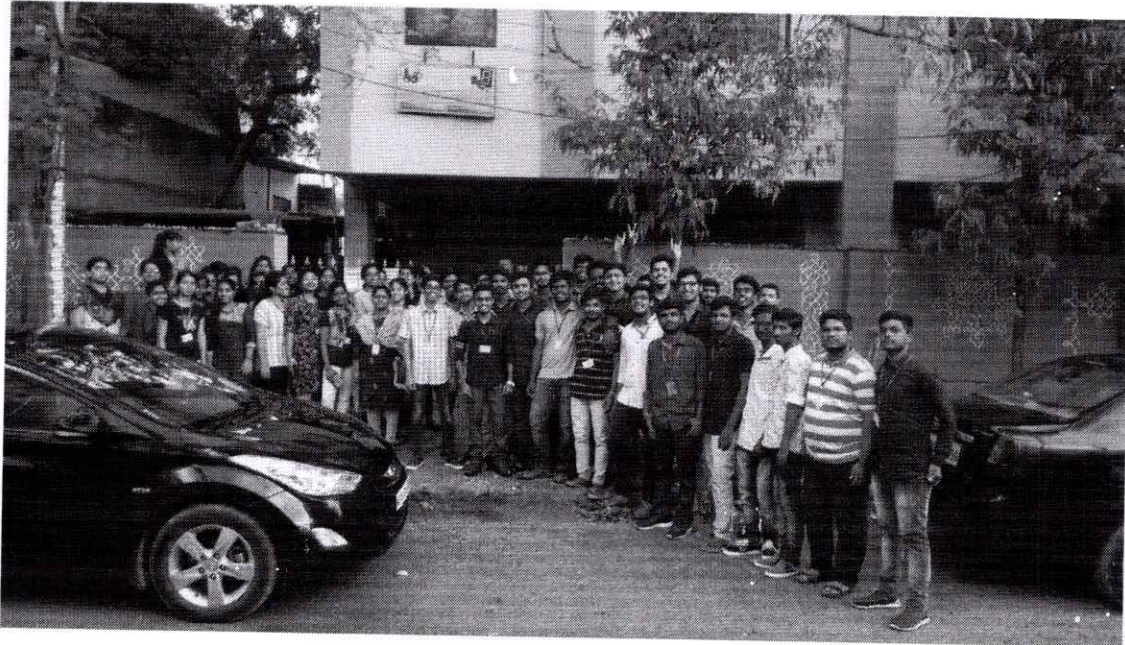
  
Geethanjali College of Engg. and Tech.  
Cheeryal (V), Keesara (M), Madchal Dist.(T.S.)-501 301.

ECE II yr I Sem B,D Sections students on 26th July 2019 in order to get practical knowledge on design and development of different LED's etc.

Approximately 120 students visited the industry and gained the practical knowledge.

Many students actively interacted with industry experts and sought clarifications to their questions.

Along with students,4 faculty members accompanied the students and upgraded their knowhow.



In above photographs, students were observing the manufacturing of load resistors and other components.

Report prepared by

Ms.B. Suneetha, GCET, Keesara

Member, Industrial Visits

Prof. OVPR Siva Kumar

Co-Ordinator, Industrial Visits

HOD, ECE

Geethanjali College of Engg. and Tech.  
Cheerla (V), Keesara (M), Madhachal Dist.(T.S.)-591 301.

**GEETHANJALI COLLEGE OF ENGINEERING & TECHNOLOGY**

Cheeryal(V), Keesara (M), Telangana – 501301

Department of ECE

**Undertaking Form for Industrial Visit to “LEDChip Indus Pvt. Ltd, Kushaiguda ”**

**on 26<sup>th</sup> July 2019**


We will follow all the rules and regulations imposed by the college from time to time during the visit. Further, we agree that neither the college nor the college faculty is responsible for any mishaps/incidents/loss to the person/property in any way. Any appropriate disciplinary action can be taken by the college on us for any kind of misbehavior during the visit.

- We will obey all rules and regulations imposed by the college and by the designated staff coordinator from time to time during the visit.
- We are attending this industrial visit on our own interest and not based on any force by others.
- We are fully aware of the safety requirements to be followed during the visit and strictly will follow the same

**II B.TECH (ECE) E-G Section**

S.No	Roll No	NAME OF STUDENT	SIGNATURE OF STUDENT
1	19R15A0421	K. Sai Ram	K. Gouram
2	19R15A0422	R. Rohith	R. Rohit
3	18R11A0405	Basha Shaik	Basha Shaik
4	18R11A0409	S. Sai Pranay	S. Sai
5	18R11A0403	Sai Ganesh P	Sai
6	18R11A0401	Ravinder Reddy. A	Ravinder
7	18R11A0404	SANTOSH	SANTOSH
8	18R11A0408	Hritish	Hritish
9	18R11A0402	Vamshi	Vamshi
10	18R11A0409	Pradeep	Pradeep
11	18R11A0405	Vehkat	Vehkat
12	18R11A0400	Nay Simha	Nay Simha
13	18R11A0406	SE. Md. Lilawar	SE. Md. Lilawar
14	18R11A0404	G. Balu	G. Balu
15	18R11A0405	T. Venkata Gopi	T. Venkata Gopi
16	18R11A0406	V. Sharan	V. Sharan
17	16R11A0402	M. Nikhil Chakravarty	M. Nikhil C
18	19R15A0413	M. Vivek	M. Vivek
19	19R15A0414	P. Sumanth	P. Sumanth
20	19R15A0411	S. Karthik	S. Karthik
21	19R15A0412	G. Pavithra	G. Pavithra
22	19R15A0424	B. Parvya	B. Parvya

23	18R11A0423	K. Sri Nayanah	V. Deep
24	18R11A0400	K. Madhu Sreedhi	V. Deep
25	18R11A0408	Y. Srija	V. Srija
26	18R11A0409	M. Tanuja	Tanuja
27	18R11A0407	V. Shivani	Vani
28	18R11A0407	K. Vidya Bharathi	K. Vidya Bharathi
29	18R11A0408	Sreedhi D	Sreedhi
30	18R11A0407	S. Bhanu Sri	S. Bhanu
31	18R11A0407	R. Divya	Divya
32	18R11A0400	V. Srija	Srija
33	18R11A0401	S. Harshitha	S. Harshitha
34	18R11A0405	M. Saiteja	M. Saiteja
35	18R11A0408	K. Vamsi Krishna	Vamsi
36	18R11A0409	K. Akash	Akash
37	18R11A0404	B. Seivani	Seivani
38	18R11A0408	N. Vagdevi	Vagdevi
39	18R11A0401	P. Sri Sathya Harsha	Sri Sathya Harsha
40	18R11A0400	P. Sirini	P. Sirini
41	18R11A0404	M. Maheshwari	Maheshwari
42	18R11A0401	M. Akhileshwari	Akhileshwari
43	18R11A0407	N. Prathima	Prathima
44	18R11A0409	P. Yashwanth	Yashwanth
45	18R11A0406	Kasthik	Kasthik
46	18R11A0402	S.K. Hussain	Hussain
47	18R11A0404	B. Eshanth	Eshanth
48	18R11A0408	D. Akshaya	Akshaya
49	18R11A0406	Nithya.cree	Nithya
50	18R11A0404	Raithika	Raithika
51	18R11A0400	Sindhya	Sindhya
52	18R11A0403	A. Lakshmi Soujanya	Soujanya
53	18R11A0406	A. Deepthi reddy	Deepthi
54	18R11A0401	B. Dhanarekha	Dhanarekha
55	18R11A0401	Saileela Srividya G	Srividya
56	18R11A0405	A. Naveen	Naveen
57	18R11A0409	G. Sai bhargav	Sai bhargav
58	18R11A0402	B. Dinesh kumar	Dinesh

  
**PRINCIPAL**  
 Geethanjali College of Engg. and Tech.  
 Cheeryal (V), Kaesara (M), Medchal Dist. (T.S.)-501 301.

**GEETHANJALI COLLEGE OF ENGINEERING and TECHNOLOGY**

Cheeryai(V), Keesara (M), Telangana - 501301

Department of ECE

**Undertaking Form for Industrial Visit to "Datalog Controls and Solutions Pvt. Ltd, Cherlapally"**  
**on 26th July 2019**

We will follow all the rules and regulations imposed by the college from time to time during the visit. Further, we agree that neither the college nor the college faculty is responsible for any mishaps/incidents/loss to the person/property in any way. Any appropriate disciplinary action can be taken by the college on us for any kind of misbehavior during the visit.

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- We are attending this industrial visit on our own interest and not based on any force by others.
- We are fully aware of the safety requirements to be followed during the visit and strictly will follow the same

**II B.TECH (ECE) – A&C, Sections**

S.No	Roll No	NAME OF STUDENT	SIGNATURE OF STUDENT
1.	18R11A0489	Aanya K	Aanya
2.	18R11A0489	G. Tejaswi	Tejaswi
3.	18R11A0489	K. Preethi	K. Preethi
4.	18R11A0489	K. Bhargavi Santhoshita	Santhoshita
5.	18R11A0489	Haranya	Haranya
6.	18R11A0489	D. Shwani durga	Shwani
7.	18R11A0489	G. Pravalika	Pravalika
8.	18R11A0433	M. Harika	Harika
9.	18R11A0411	D. Keerthana	Keerthana
10.	18R11A0420	G. Tejaswini	G. Tejaswini
11.	18R11A0428	K. TEJASWI	Tejaswi
12.	18R11A0425	K. VINEELA	Vineela
13.	18R11A0427	K. Rukmani	Rukmani
14.	18R11A0432	M. Keerthana	Keerthana
15.	18R11A0423	K. Vaishnavi	K. Vaishnavi
16.	18R11A0419	G. Sushma	G. Sushma
17.	18R11A0424	K. Akanksha	Akanksha
18.	18R11A0406	B. Bhavani	Bhavani
19.	18R11A0416	G. Sushma	G. Sushma
20.	18R11A0407	B. Swapna	B. Swapna
21.	18R11A0404	D. Sai Sushmitha	Sushmitha
22.	19R15A0403	B. Uma devi	Uma
23.	18R11A0438	Sultha manasa	Manasa
24.	18R11A0415	Tabasi	Tabasi
25.	18R11A0441	Uthara Sudhir	Uthara



PRINCIPAL

Geethanjali College of Engg. and Tech.  
Cheeryai (V), Keesara (M), Medchal Dist. (T.S.)-501301.

26	18R11A0403	K. Ashika	<del>CASHIKA</del>
27	18R11A0435	N. Sameena	<del>N. Sameena</del>
28	18R11A0412	D. Priyanka	<del>Priyanka</del>
29	18R11A0443	V. Sreya	<del>Sreya</del>
30	18R11A0438	R. Madhuri	<del>Madhuri</del>
31	18R11A0444	V. Abhala Sresthi	<del>Abhala</del>
32	18R11A0444	D. Anuhya	<del>Anuhya</del>
33	18R11A0497	A. Vaishnavi	<del>Vaishnavi</del>
34	18R11A0461	K. Poorana	<del>Poorana</del>
35	18R11A0460	G. Rithika	<del>Rithika</del>
36	18R11A0440	D. Archana	<del>Archana</del>
37	18R11A0434	M. Dhvani	<del>Dhvanii</del>
38	18R11A04A3	D. Rala Krishnan	<del>Rala</del>
39	18R11A0460	I. Anand	<del>Anand</del>
40	18R11A04A1	D. Naveen	<del>Naveen</del>
41	18R11A04C1	M. Sai Chasana	<del>Sai</del>
42	18R11A04A2	D. Anil	<del>Anil</del>
43	18R11A04B7	K. Sri Karan	<del>Karan</del>
44	18R11A04A2	G. Kiran Kumar	<del>Kiran Kumar</del>
45	18R11A04C2	Mohd. Adnan	<del>Adnan</del>
46	18R11A04C3	MMN Phanindra	<del>Phanindra</del>
47	18R11A04B6	K. Mahesh	<del>Mahesh</del>
48	18R11A04B3	Ruameetha	<del>Ruameetha</del>
49	18R11A04A9	B. Mani Kanta	<del>Mani Kanta</del>
50	18R11A04A8	G. Vishnu vardhan	<del>Vishnu</del>
51	18R11A0431	M. Viswanath	<del>Viswanath</del>
52	18R11A0447	Y. Fayazuddin	<del>Fayaz</del>
53	18R11A0407	V. S. Pavan	<del>Pavan</del>
54	18R11A0448	Y. Vishnu	<del>Vishnu</del>
55	18R11A0430	K. Rameshwar	<del>Rameshwar</del>
56	18R11A0419	G. Rohith Sai	<del>Rohith</del>
57	18R11A0426	K. Kiran Babu	<del>Kiran</del>
58	19R15A0405	P. SANTOSH	<del>Santosh</del>
59	19R15A0402	A. Jayanth	<del>Jayanth</del>
60	18R11A0445	Y. Raviteja	<del>Raviteja</del>
61	18R11A0407	B. Sandeep	<del>Sandeep</del>
62	18R11A0429	K. Sai Meeram	<del>Sai</del>
63	18R11A0422	K. Nikhil Arav	<del>Nikhil</del>
64	18R11A0408	G. Prasad Vasma	<del>Prasad</del>
65	18R11A0446	Y. Saketh Kumar	<del>Saketh</del>
66	18R11A0414	G. Charith Raghav	<del>Charith</del>
67	18R11A		



# GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY

**Industrial Visit:** to Datalog Controls and Solutions Pvt Ltd, Cherlapally, August 14, 2019

1. Name & Designation:
  1. Dr RS Raju, Professor, ECE and Dean, R&D
  2. Prof Siva Kumar, ECE
  3. Prof Aruna Bharathi, EEE
2. Duration of tour : ½ day (AN) on 14-08-2019
3. Purpose of tour : To discuss possibilities of collaborative work in the area of common interest.
4. Details of journey:

ONWARD: Reached Datalog (also called Variturn Electro Products (P) Ltd) at 1630 hrs (by college bus upto Bharat Petroleum in Cherlapally and thereafter by the vehicle provided by variturn).

RETURN : Left Variturn at 1800 hrs by the vehicle provided by Variturn (upto ECIL X-roads)
5. Work done/Outcome at Variturn:
  - a) Mr KK Raju, MD welcomed GCET members and assured support to work together in the areas of common interest. He expressed that the outcome of any research should be: (i) economically viable and (ii) should have industrial adoptability. Dr RS Raju briefed the purpose of visit and handed over a hard copy of brief proposal to Mr KK Raju for further discussions on this.
  - b) Visit to industry:

Mr Venkata Rao, COO took GCET members around the production unit. Extensive discussions were held on LI battery bank, which they developed and are using in their 3-wheeler (IC engine replace with battery pack). The following are some the important facilities they have on battery development:

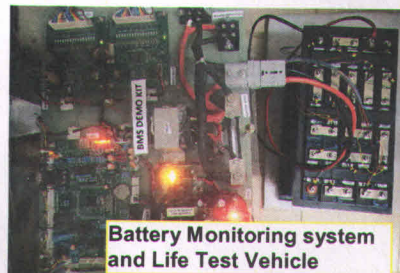
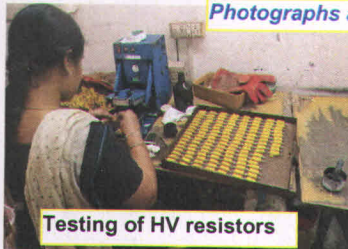
(i) Chargers for Battery, SMPS, CV, IC, Multi battery, (ii) Portable charger and (iii) FCBC Float Cum Boost Charger.

Some of the facilities for characterization of battery pack:

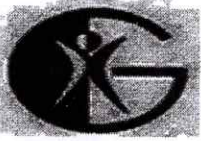
(i) Battery Analyzer kit, (ii) Instantaneous tester, (iii) Charge cum discharger, (iv) Life cycle tester, (v) Multi battery tester, (vi) Automated charge setup, (vii) Thermal Battery Test System, (viii) Automated Power supply tester
  - c) Ride on Electric Auto: GCET members were taken on a ride in the electric vehicle for about a km to show its performance. GCET members were impressed with the excellent performance of the vehicle. The electric auto was designed to handle maximum load of 9 people (as per Indian conditions); Speed of 60 kmph; Average cost/km ride is ≈Rs.0.5 which will make it very economical. It's also discussed that the break even for profit for the auto owner is nearly 15 months.
  - d) Invitation to Variturn: Mr KK Raju and Mr Rao were invited to visit GCET members for: (i) further interaction on collaborative work by way of practical knowledge sharing and (b) Variturn to motivate the students and faculty to take up challenging R&D work related to industrial needs.
6. Follow up action:
  - a) Proposal for a joint work on battery system for electric vehicles →action Prof Aruna Bharathi.
  - b) Organising the visit of Variturn to GCET →action Prof OVPR Siva Kumar.

(RS Raju) *RS Raju* (Siva Kumar) *Siva Kumar* (Aruna Bharathi) *Aruna Bharathi*

Photographs at Datalog\_14-08-2019







**Geethanjali College of Engineering and Technology**  
(UGC Autonomous Institution)

(Approved by AICTE, Affiliated to JNTUH, Accredited by NAAC & NBA, New Delhi)  
Cheeryal (V), Keesara (M), Medchal District, Telangana – 501 301

**Department of ECE**

Date: 13.02.2020

**Circular**

It is hereby informed that a Guest lecture is scheduled on the topic “LED Chip Design, Fabrication and Applications”.

**Date of the event: 15<sup>th</sup> February, 2020**

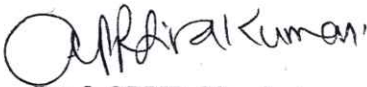
**Timing: 11:AM to 12:20 PM**

**Venue: Seminar hall, Block 1**


**Target audience: Students of II year ECE**

**Resource persons: Dr. Vijay Kumar Gupta,  
CEO, LEDChip Indus Private Limited, Hyderabad**

**Faculty Coordinators: 1. Prof.O.P.V.R.Siva kumar  
2. Ms.G.Sree lakshmi, Associate Professor**

  
Prof. OPVR Siva kumar  
(GH-VLSI)

  
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Cheeryal (V), Keesara (M), Medchal District, Telangana – 501 301.

  
Prof. B. Hari Kumar  
HoD, ECE

GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ECE

~~PEER LEARNING~~ WORKSHOP REPORT

ON

## “LED Chip Design, Fabrication and Applications”

Department of ECE under Center of Excellence in VLSI in association with IEEE CASS Student Branch Chapter organized a guest lecture on “LED Chip Design, Fabrication and Applications” on Feb 15<sup>th</sup> 2020. Students from 2<sup>nd</sup> year ECE were the target audience. It was a very good session where students gain knowledge on how LED chip is designed, Fabrication process and various applications were explained by resource person. s

The poster features the Geethanjali College of Engineering and Technology logo at the top left, which includes a stylized 'G' and 'J' inside a circle. Below the college name, it states 'UGC Autonomous' and provides accreditation details: 'Accredited by NAAC with 'A' grade & NBA, Approved by AICTE, Permanently Affiliated to JNTUH Cheeryal(V), Keesara(M), Medchal(Dist), Telangana-501 301'. The main title of the event is 'CENTRE OF EXCELLENCE IN VLSI DESIGN Guest Lecture on "LED Chip Design, Fabrication and Applications"'. The speaker is identified as 'Dr. K. Vijay Kumar Gupta, CEO, LED Chip Indus Private Limited, Hyderabad'. The date is '15<sup>th</sup> February, 2020'. The organizing body is 'IEEE CAS SB, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING'. Logos for CAS and IEEE GCET-SB are also present.

Dr.K.Vijay Kumar Gupta who is CEO, LED Chip Indus private Limited, Hyderabad explained very well the complete process and he gave opportunity to visit his company to get practical exposure. Students got opportunity to visit his company. Students posed questions about their carer growth, internships and other opportunities in this field and he answered all quires and this company is ready to offer internships.

  
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G.Sreelakshmi

Associate professor

HOD, ECE

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**GEETHANJALI COLLEGE OF ENGINEERING & TECHNOLOGY**

**Cheeryal(V), Keesara (M), Telangana - 501301**

**Department of ECE**

**DAILY ATTENDANCE SHEET**

Class/ Section		YEAR II SEM II					SECTION: B		Date: 15/2/2020	
No	Roll No	PERIODS	1	2	3	4	5	6	7	Remarks
Student Name		Sub:	Sub:	Sub:	Sub:	Sub:	Sub:	Sub:	Sub:	
Tech - I										
		Guest lecture Attendance Report								
	18R11A0449	ALAKANTI PAVANI								
	18R11A0450	BANOTH NAVEEN								
	18R11A0451	BARIGELA BHAVANI								
	18R11A0452	BATTU RAJESH								
	18R11A0453	BATTU SHASHANK REDDY								
	18R11A0454	BENNY ELLE								
	18R11A0455	BONGONI ABHIGNA								
	18R11A0456	CHIKKA MANASA								
	18R11A0457	DADI CHANDRIKA REDDY								
	18R11A0458	DASARI MANIKANTA								
	18R11A0459	DHARAVATH ANITHA								
	18R11A0460	DODDI SATYA SAI PAVAN KUMAR								
	18R11A0461	DONAPATI BHAVANA REDDY								
	18R11A0462	G BHARGAV								
	18R11A0463	GADDAM AKHILA								
	18R11A0464	GOPI REDDY TEJASWINI								
	18R11A0465	GORRELLA KARTHIK MANIKANTA								
	18R11A0466	GUDDATI V CHARAN KALYAN								
	18R11A0467	GUNTUPALLI AISHWARYA								
	18R11A0468	J BHARADWAJ SHARMA								
	18R11A0469	JASTHI ANYA								
	18R11A0470	KANUKUNTA SUPRAJA								
	18R11A0471	KONDOJU MANISH KUMAR								
	18R11A0472	KONTALA BHARADWAJ								
	18R11A0473	KOTA VISHWESH								
	18R11A0474	KURREMULA SAI SACHIN GOUD								
	18R11A0475	LELELA NITHIN								

  
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**Cheeryal(V), Keesara (M), Telangana - 501301**

**Department of ECE**

**DAILY ATTENDANCE SHEET**

Class/ Section		YEAR II SEM II					SECTION: D			Date: 15/2/2020
No	Roll No	PERIODS	1	2	3	4	5	6	7	Remarks
		Student Name	Sub:	Sub:	Sub:	Sub:	Sub:	Sub:	Sub:	
atch - I										
1	17R11A04F5	BETHALA SAI KRISHNA	Krishna							
2	17R11A04K8	CHIMMULA VIJAY BHASKAR REDDY	Vijay							
3	18R11A04E5	ADITYA MEKA	Aditya							
4	18R11A04E6	ARATIKA YALA ASHISH MUDHIRAJ	Ashish							
5	18R11A04E7	BANAVATH SNEHITHA	Snehitha							
6	18R11A04E8	B T T SUBRAMANYA SAI	Subrama							
7	18R11A04E9	BOMMASANI SAI SHANMUKH	Shanmukh							
8	18R11A04F0	CHALLA GOUTHAMI	Gouthami							
9	18R11A04F1	CHAKILAM BHARGAV								
0	18R11A04F2	CHAMBAGARI RUCHITHA								
1	18R11A04F3	CHERUKURI SAI NITHEESHA								
2	18R11A04F4	GHIMALADINNE MOHAN KUMAR	Mohan							
3	18R11A04F5	CHINTAKINDI PRAVEEN KUMAR	Praveen							
4	18R11A04F6	CHINTHAKINDI SAIKUMAR	Sai Kumar							
5	18R11A04F7	DAKKA MANASA	Manasa							
6	18R11A04F8	DANDEM AKHIL								
7	18R11A04F9	DIGGAVI YASHASWINI	Yashaswini							
8	18R11A04G0	DIVYA SHREE								
9	18R11A04G1	GADILA NIDHI REDDY	Nidhi							
0	18R11A04G2	GANTI PREETHI RATNA	Preethi							
1	18R11A04G3	GARLAPATI SHREYA	Shreya							
2	18R11A04G4	GURUGUBELLI SUMA	Suma							
3	18R11A04G5	JADHAV PALLAVI	Pallavi							
4	18R11A04G6	JAMI MAHITHA								
5	18R11A04G7	JAVVADI SNEHA	Sneha							
6	18R11A04G9	KALAKUNTLA VINAY KUMAR	Vinay							
7	18R11A04H0	KASA SHIVANAND	Shivanand							

  
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# TEJA EDUCATIONAL SOCIETY

Office : Sy. No. 33 & 34, Cheeryal (V), Keesara (M), Medchal Dist. (T.S.) - 501 301.  
 Phones : 9182058186, 9182058196, 9182058198

Payment Voucher (Cash/Bank)	V.No. <u>3864</u>	Document Date	
PAY TO <u>Dr. C. Vijay Kumar Gupta</u>		<u>15</u>	<u>02</u> <u>2020</u>
Rupees <u>Five thousand only</u>			
Account Head	Particulars	Rs.	Ps.
<del>Guest fee</del>	Amount Paid for ECE	5000	00
	Dept Guest Lecture Honorarium		
	Chew: 756839		
Accountant Signature	Authorised Signature	Receiver's Signature	
<u>Ranjit</u>	<u>S/o</u>	<u>Vijay Kumar Gupta</u>	

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 Phones : 9182058186, 9182058196, 9182058198

Payment Voucher (Cash/Bank)	V.No. <u>3865</u>	Document Date	
PAY TO <u>Dr. Avinash Yadlapati</u>		<u>15</u>	<u>02</u> <u>2020</u>
Rupees <u>Five thousand only</u>			
Account Head	Particulars	Rs.	Ps.
<del>Guest fee</del>	Amount Paid for ECE	5000	00
	Dept Guest Lecture Honorarium		
	Chew: 756840		
Accountant Signature	Authorised Signature	Receiver's Signature	
<u>Ranjit</u>	<u>S/o</u>	<u>Avinash Yadlapati</u>	

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**Report**  
**on**  
**AICTE Training and Learning (ATAL) Academy**  
**sponsored online Faculty Development Programme**  
**on**  
**“Internet of Things(IoT)”**

**December 01-05, 2020**

**by**

**Mrs.M.Laxmi**  
*Coordinator - FDP*  
*Associate Professor, Department of ECE*



  
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## Overview of the FDP

The Online Faculty development programme (FDP) on “Internet of Things (IoT)” is sanctioned by AICTE Training and Learning(ATAL) academy(Ref. No. 01/AICTE/ATAL-HQ/2020-20211052(30) to Mrs.M.Laxmi, Associate Professor-ECE, Geethanjali College of Engineering and Technology (GCET), Cheeryal(V), Medchal(D), Telangana. The main objective of the FDP is to train faculty members, research scholars and young scientists in the field of Internet of Things, who in turn can train, help and prepare students for active and successful participants in a knowledge society. As per the proposal and sanction order the FDP on aforesaid theme is planned from Dec 01-05, 2020.

The FDP programme received national wide response with participation from academics, industry, and research scholars working in allied areas of IoT. The FDP is organized online using the ‘google meet’ through college premier Gmail account (faculty@gcetexams.in). The inauguration of FDP has been held on 01<sup>st</sup> December 2020 at 9:00 AM, the first day and start of FDP. The inaugural session holds more than 150 people including college staff and participants of FDP. Mr. G. R. Ravinder Reddy, Chairman-GCET, Dr. Udaya Kumar Susarla, Principal, Prof. S.Suryanarayana, HoD-ECE and Prof. Hari Kumar, Dean school of Electrical and Communication engineering addressed the participants. Associate Prof. Mrs.M.Laxmi, coordinator of FDP presented the welcome and opening address of the FDP, elaborated the role of Internet of things in the present era and said that this FDP aims to facilitate the faculty and research scholars to carry out R& D activities in amalgamated confines of these technologies. she mentioned that the FDP is planned to have 15 sessions and 3 sessions per day in which 13 are technical sessions, one special session on life skills (Fit India movement) and last session dedicated for Valedictory and conducting exam.200 participants from academia and industry are registered on first come first serve basis from 19 states Tamilnadu, Telangana, Andhra Pradesh, Uttarakhand , Jharkhand, Uttar Pradesh, Maharashtra, Delhi, Odissa, Haryana, Gujarat, Madhya Pradesh, Karnataka, Kerala, West Bengal, Pondicherry, Chattisgarh, Himachal Pradesh and Rajasthan across India. The FDP course includes lectures, case studies and hands on practice sessions. The core faculty are eminent personalities with expertise in IoT field from IITs, NITs, HCU and from different organizations like Hanbit Automation Technologies, Vidcentum R & D Pvt. Ltd. and Smart bridge Technologies. Topics such as Smart Sensors for IoT, Latest Trends and Research Areas in IoT project on home automation using various sensors and actuators interfaced to

  
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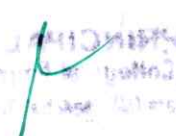


Arduino boards, Tinkercad Virtual tool, Communication Technologies for IoT short range and long range, Python programming for IoT applications. Communication protocols MQTT and Http, node red programming, real time applications case studies are not only provided with thorough exposure to concepts but also implementation of the same, that gives in-depth understanding to faculty and help them in teaching and to accelerate their research career. FDP have utilized the resources and time to the optimum and executed the task in time without any delays.

The participants are provided with power point presentations of invited talks for further reference. Attendance on a daily basis for three sessions was taken during the conduct of online sessions. An objective test at the end of each FDP was conducted to assess the participants and feedback was also taken for each session to improve strategies.

S. No	Name	Number	Email	Specializaion	City	Organisation/Institution Name
1	Mr. PVS.Maruthi Rao	9052512020	maruthi.pvs@gmail.com	Big data analytics,cloud services ,IOT	Hyderabad	Vidcentum R & D Pvt Ltd
2	Prof.K.S.Rao	7780799363	ksrao@gcet.edu.in	Digital electronics ,embedded Systems,IoT	Hyderabad	Geethanjali College of Engineering and Technology
3	Mr.CH.Sandeep	8978042911	sandeepgcetece@gmail.com	Embedded Systems,IoT,VLSI	Hyderabad	Geethanjali College of Engineering and Technology
4	Mrs. sathya V	3538996782	sathya.valupadasu@intel.com	IoT,Process designer	Hyderabad	INTEL,Ireland
5	Mr. Phani Kumar Varanasi	9866305554	phani.varanasi@hanbit solutions.com	wireless sensor networks,Automated Meters,IoT Technologies	Hyderabad	Hanbit automation Technologies
6	Miss DIVYA NEMURI	8179323871	divya@thesmartbridge.com	IoT,Machine learning,Cloud computing	Hyderabad	Smart bridge technologies
7	Dr.Tushar Kanti Bera	8686519993	tkbera77@gmail.com	IoT,Cloud services,Protocols	Durgapur	NIT Durgapur, West Bengal
8	Dr. S.Nagendra Kumar	8550011837	nks@uohyd.ac.in	wireless sensor networks ,Internet of Things	Hyderabad	University of Hyderabad
9	A.Shoba Devi	9290124225	shobhaalladi31@gmail.com,	Yoga teacher	Hyderabad	Ramakrishna Mutt

**Table 1** Details of GCET-ECE-AICTE-ATAL-IoT-FDP resource persons

  
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The FDP was concluded with the speech of valedictory function's on 5<sup>th</sup> December 2020, Chief Patron and Chairaman, Shree G.R.Ravinder Reddy Garu motivated the delegates to utilize these types of FDPs to enhance their knowledge in specific areas. Patron and Principal, Dr.S.Udaya Kumar Susarla Garu has stressed on importance of practical implications of IoT, in our day to day life. Dean SECE Prof. B. Hari Kumar has encouraged the participants to implement projects based on the training received in this FDP. Dr. S. Suryanarayana, HoD-ECE has mentioned that these kinds of events are necessary to get acquainted with advancements in the fields of wireless communication technology and also said, it's an opportunity for him to interact with the young faculty and researchers to share the knowledge and experience.

<b>Day</b>	<b>2</b>
<b>Date</b>	<b>02/12/2020</b>
<b>Time</b>	<b>09:30am to 11:00 am</b>
<b>Title</b>	<b>Overview of Communication Technologies for IoT short range and long range</b>
<b>Name of the Resource person</b>	<b>Mr.Phani Kumar Varanasi, Founder, CEO, Hanbit Automation Technologies</b>

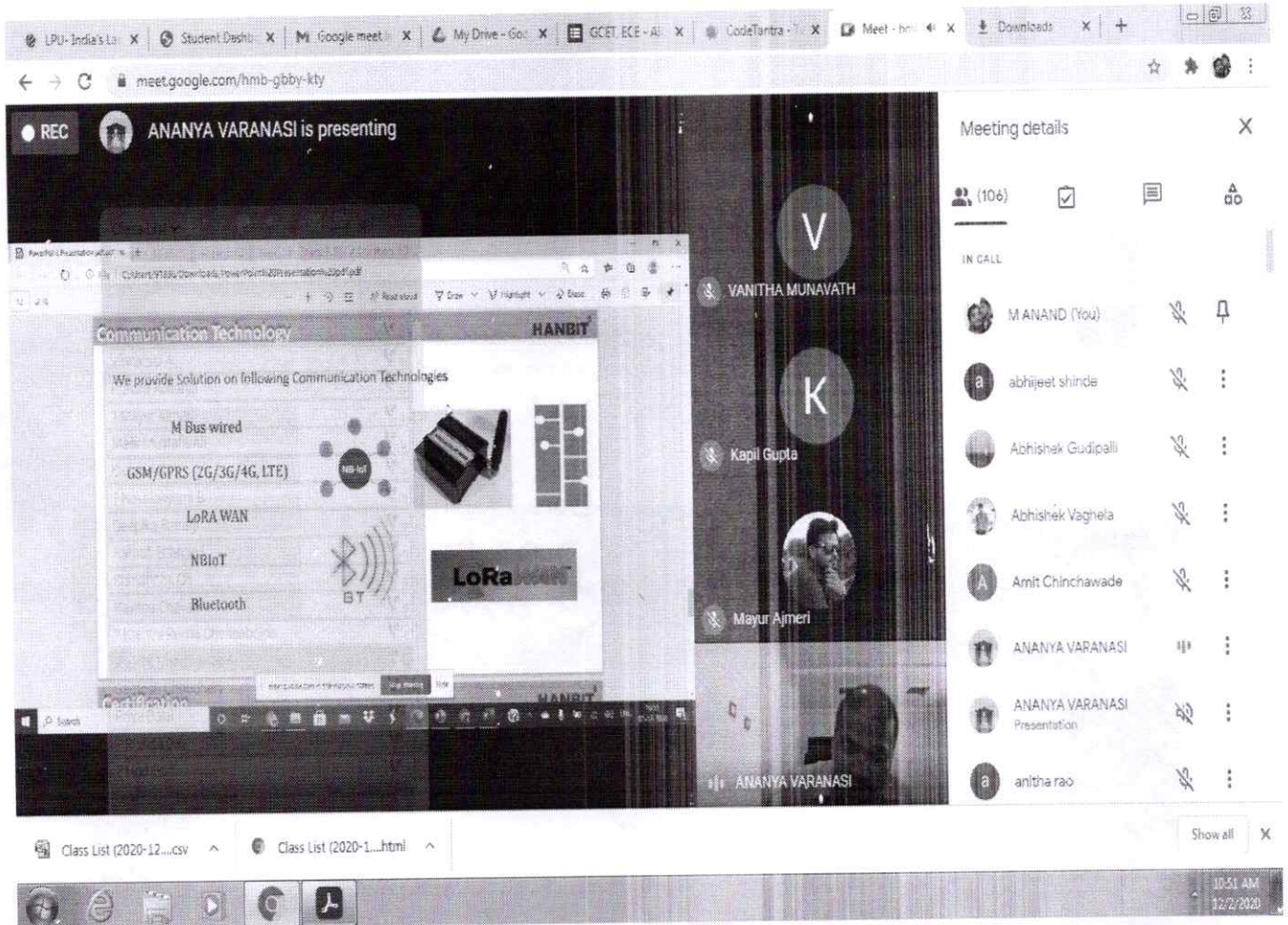
In this session, the speaker explained Arduino Board, difference between analog and digital pins of Arduino, Basic functions required to program Arduino, how to join Tinkercad and how to use Tinkercad.

Also explained how to interface LED, DC Motor, Servo Motor, Ultrasonic Sensor, Gas Sensor, PIR Sensor and Buzzer with Arduino and wrote the respective programs and simulated using Tinkercad.

Finally implemented a project on "Home Automation" which includes (i) Automatic Door Open and Close System (ii) Automatic light and fan ON and OFF System (iii) LPG Gas leakage System.

  
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## Photo of the Session:



## Summary of the lecture

In this session, the speaker explained overview of Communication Technologies for IoT short range and long range.

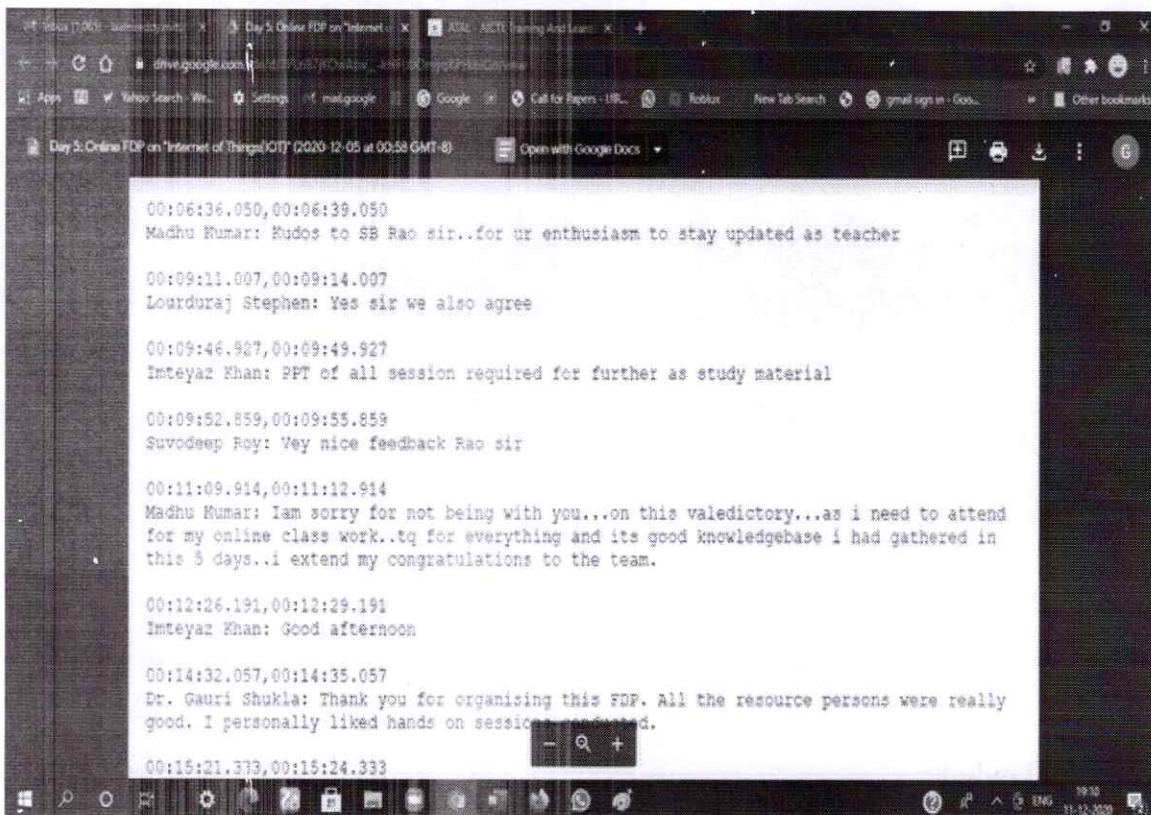
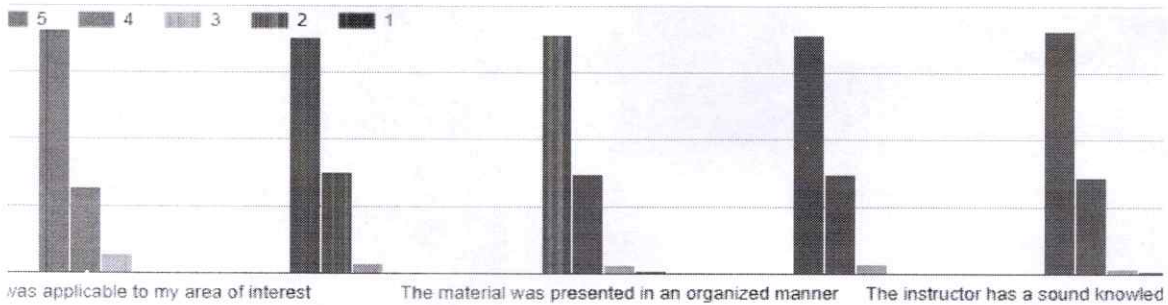
## Recorded session link:

[https://drive.google.com/file/d/1qes\\_2PDXsS48GfCVr4mOkX647N\\_IX9Li](https://drive.google.com/file/d/1qes_2PDXsS48GfCVr4mOkX647N_IX9Li)

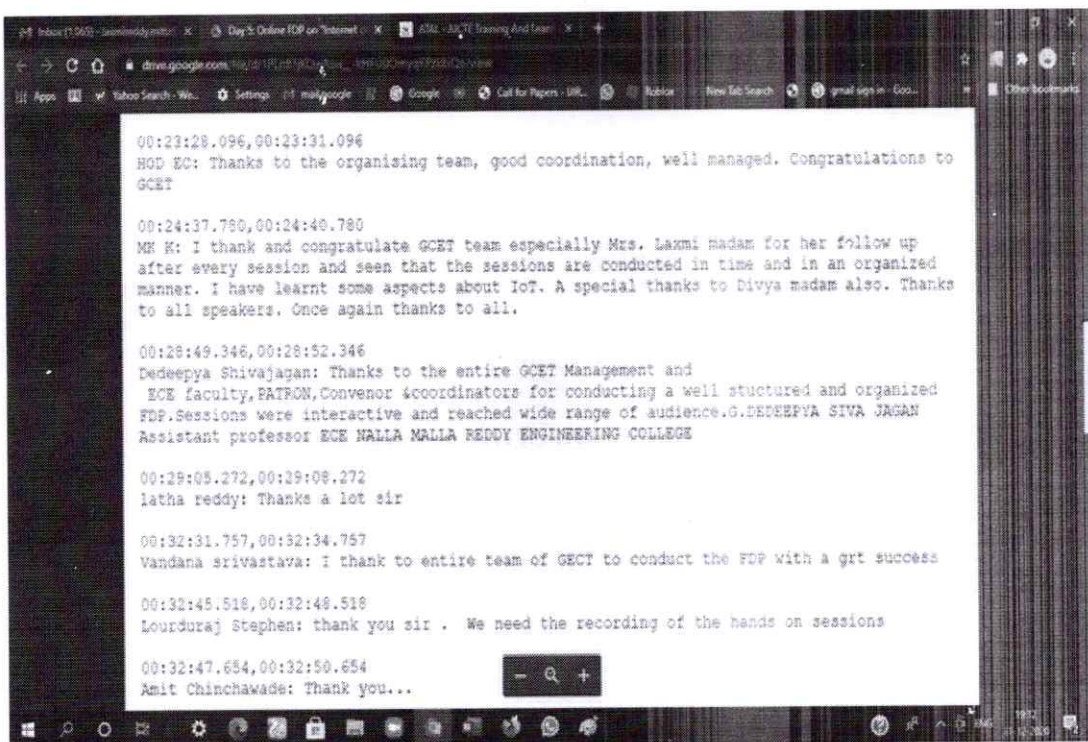
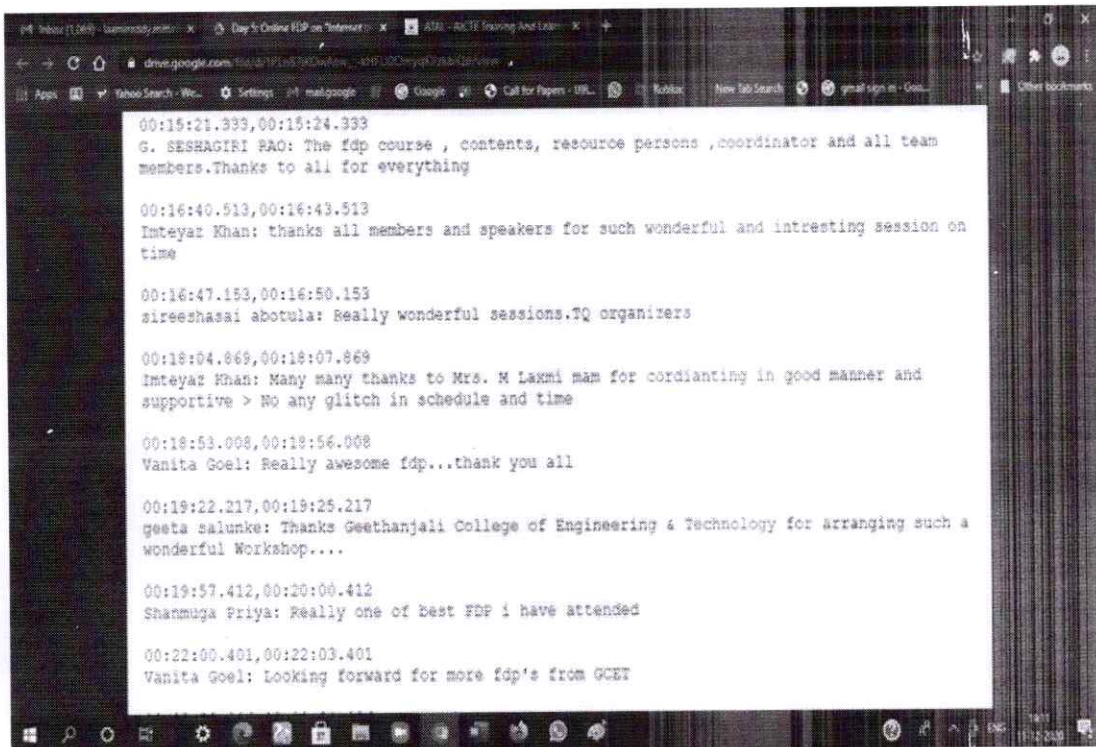
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## Feedback:

### Session-2: IoT Basics, Arduino Board and Smart sensors for IOT Applications



Principal  
Boethanjali College of Engg. and Tech  
Chennai (V), Kavayam (M), Mahabalipuram-605 001.



Co-ordinator  
Ms.M. Laxmi

HoD-ECE  
Dr.S. Suryanarayana

*S.S*  
08/12/2020

**PRINCIPAL**  
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