

## **Geethanjali College of Engineering and Technology**

Accredited by NAAC with 'A' Grade & NBA, Approved by AICTE and Affiliated to JNTUH  
Cheeryal(V), Keesara(M), Medchal Dist., Telangana – 501 301.

# **Industrial Visits for the Academic Year: 2020-21**

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# GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY

**Tour Report:** Industrial visit to "Smartbridge", Nacharam, Hyderabad, Feb. 01, 2021

1. Name and designation:
  1. Dr RS Raju, Professor, ECE and Dean, R&D
  2. Mr A Subramanyam, Asst. Professor, ECE
  3. Mr GV Charan, 3<sup>rd</sup> year student, ECE
  4. Ms M Srilekha, 3<sup>rd</sup> year student, ECE
  5. Ms S Ruchiswa, 3<sup>rd</sup> year student, ECE
  6. Ms S Ramya, 3<sup>rd</sup> year student, ECE

To  
Industrial visit  
Raj  
3/2/21

2. Duration of tour : 01-02-2021 (1530-1630 hrs)
3. Purpose of tour : Testing of water meter at Smartbridge
4. Details of journey : Visited on personal vehicles

5. Work done and Outcome:

- Ms Divya of Smartbridge mentioned that they were looking for suggestions from us to incorporate modifications in light of the earlier discussions (contents furnished below). She showed the system to the other two student members who were not present in the last visit and explained the connectivity with the laptop to measure the flow rate and amount of water collected are demonstrated.
- After the testing, the following were suggested to be incorporated.
  - GSM integration: for sending data to IBM cloud
  - Web page creation: data visualization and bill generation including start date, end date and unit rate.
  - Calculate the bill and display in user interface
  - Sharing the data in date base
  - Providing ports for battery backup condition
  - Making the unit compact as suggested in the last visit.
- Other activity: The students discussed with Ms Divya on water leakage system using ultrasonic detectors.

6. Action plan:

- (i) To make modifications as per the discussions in a couple of weeks →action Smartbridge.
- (ii) To make arrangements at GCET to test the device →action team members and students

*Raj Raju*  
21/02/2021  
(RS Raju)

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**Scope Discussed as on 10<sup>th</sup> December 2020 at Smartbridge:**

- GSM module should be integrated for sending the data to the cloud.
- The volume of water for every one hour should be calculated and that data should be send to the cloud platform
- The same data will be stored in the SD card
- If any data is not uploaded to cloud due to network connectivity issues the data will be stored in the SD card and from the SD card the data will be read and sent to the cloud platform.

Web Application Scope:

Admin signup and sign in logins are available

- It In web Application the volume of water in liters will be visualized in the form of graphs.
- It will take the user input (date) and based on that date it will calculate the last month's bill for total number of liters consumed and display it in the form of a bill.

*Raj*  
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Geethanjali College of Engineering & Technology  
(An UGC Autonomous Institution)  
Department of Electronics and Communication Engineering

Circular

Date: 23.04. 2021

Sub: Virtual Industrial Visit - Reg.

All the Class teachers and students of III B.Tech(ECE) are here by informed that a **virtual industrial visit to India Meteorological Department, Hyderabad** is planned on **26<sup>th</sup> April 2021, from 10:30am to 12pm** through **"Google Meet"**.



O.V.P.R. Siva Kumar,  
Professor, Dept. of ECE  
In charge of Industrial Visits



HOD ECE



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Department of Electronics and Communication Engineering

## Report on Virtual Industrial Visit to Indian Meteorological Department, Begumpet

**B.Tech III YR students on 26th April 2021**

The **India Meteorological Department (IMD)** is an agency of the Ministry of Earth Sciences of the Government of India. It is the principal agency responsible for meteorological observations, weather forecasting and seismology. IMD is headquartered in Delhi and operates hundreds of observation stations across India and Antarctica. Regional offices are at Mumbai, Kolkata, Nagpur and Pune.

IMD is also one of the six Regional Specialised Meteorological Centres of the World Meteorological Organization. It has the responsibility for forecasting, naming and distribution of warnings for tropical cyclones in the Northern Indian Ocean region, including the Malacca Straits, the Bay of Bengal, the Arabian Sea and the Persian Gulf.

IMD operates a network of hundreds of surface and glacial observatories, Upper Air (high altitude) stations, ozone and radiation observatories and meteorological radar stations. Additional data is received from India's constellation of satellites, such as Kalpana-1, Megha-Tropiques and instruments on board the IRS series and the INSAT series of satellites. Data and observations are also reported into the IMD network from meteorological instruments on board Indian merchant marine and Indian Navy ships. IMD was the first organisation in India to deploy a message switching computer for supporting its global data exchange.

IMD collaborates with other agencies such as the Indian Institute of Tropical Meteorology, National Centre for Medium Range Weather Forecasting and the National Institute of Ocean Technology.

IMD also operates seismic monitoring centres at key locations for earthquake monitoring and measurements.

IMD undertakes observations, communications, forecasting and weather services. In collaboration with the Indian Space Research Organisation, the IMD also uses the IRS series and the Indian National Satellite System (INSAT) for weather monitoring of the Indian subcontinent. IMD was the first weather bureau of a developing country to develop and maintain its own satellite system.

  
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IMD is one of the 6 worldwide Regional Specialised Meteorological Centres of the Tropical Cyclone Programme of the World Weather Watch of the World Meteorological Organization. It is regional nodal agency for forecasting, naming and disseminating warnings about tropical cyclone in the Indian Ocean north of the Equator.

The IMD launched System of Aerosol Monitoring and Research (SAMAR) in January 2016 to study the concentration of Black carbon, radiative properties of aerosols, environmental visibility and their climatological impacts. It would contain a network of 16 aethalometers, 12 sky radiometers and 12 nephelometers

Based on industry profile, Department of ECE, Geethanjali College of Engineering & Technology management arranged the virtual industrial visit to Indian Meteorological Department, Begumpet for **B.Tech III YR students on 26th April 2021** in order to get practical knowledge

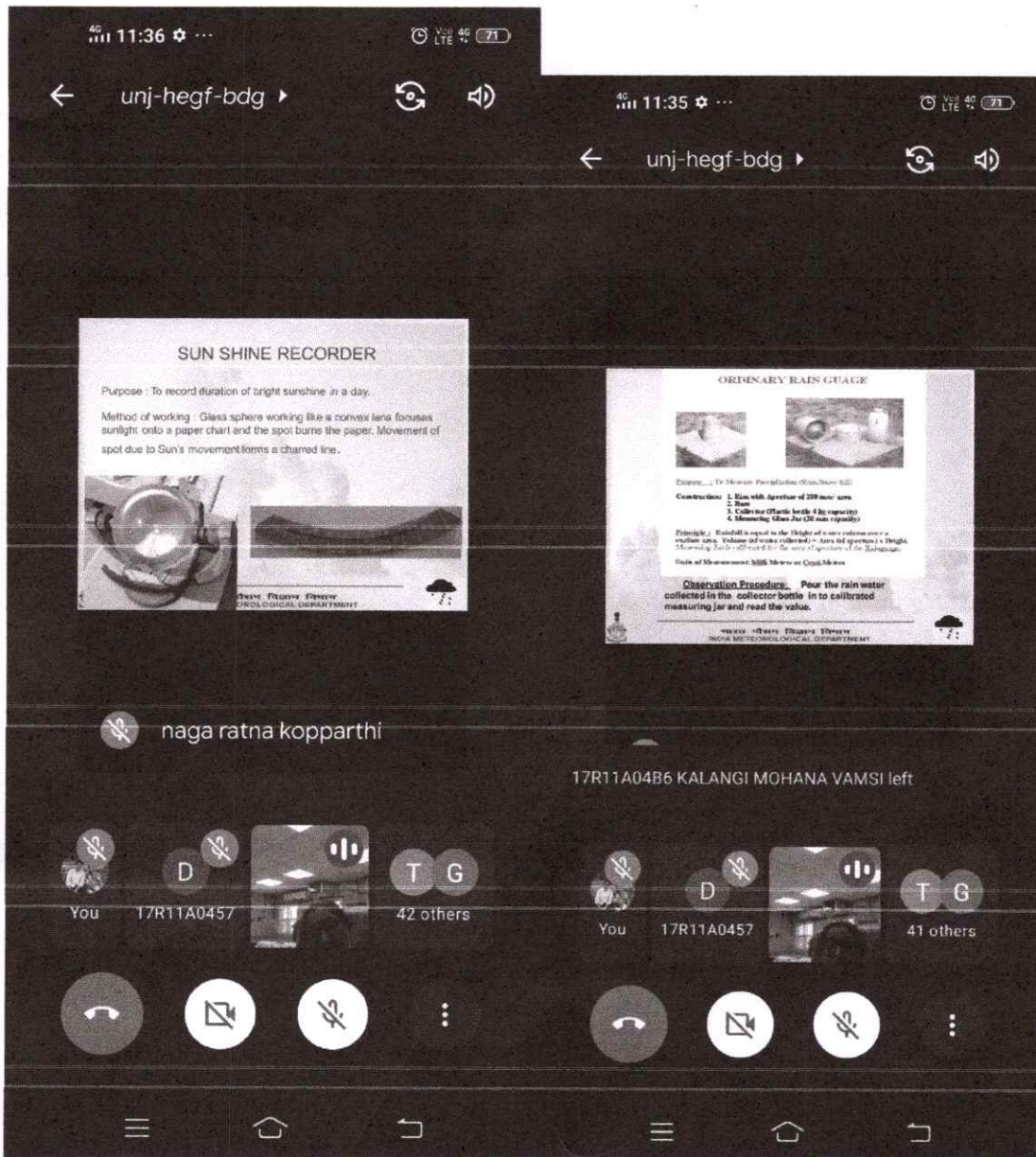
100 students are actively attended for the virtual visit.

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

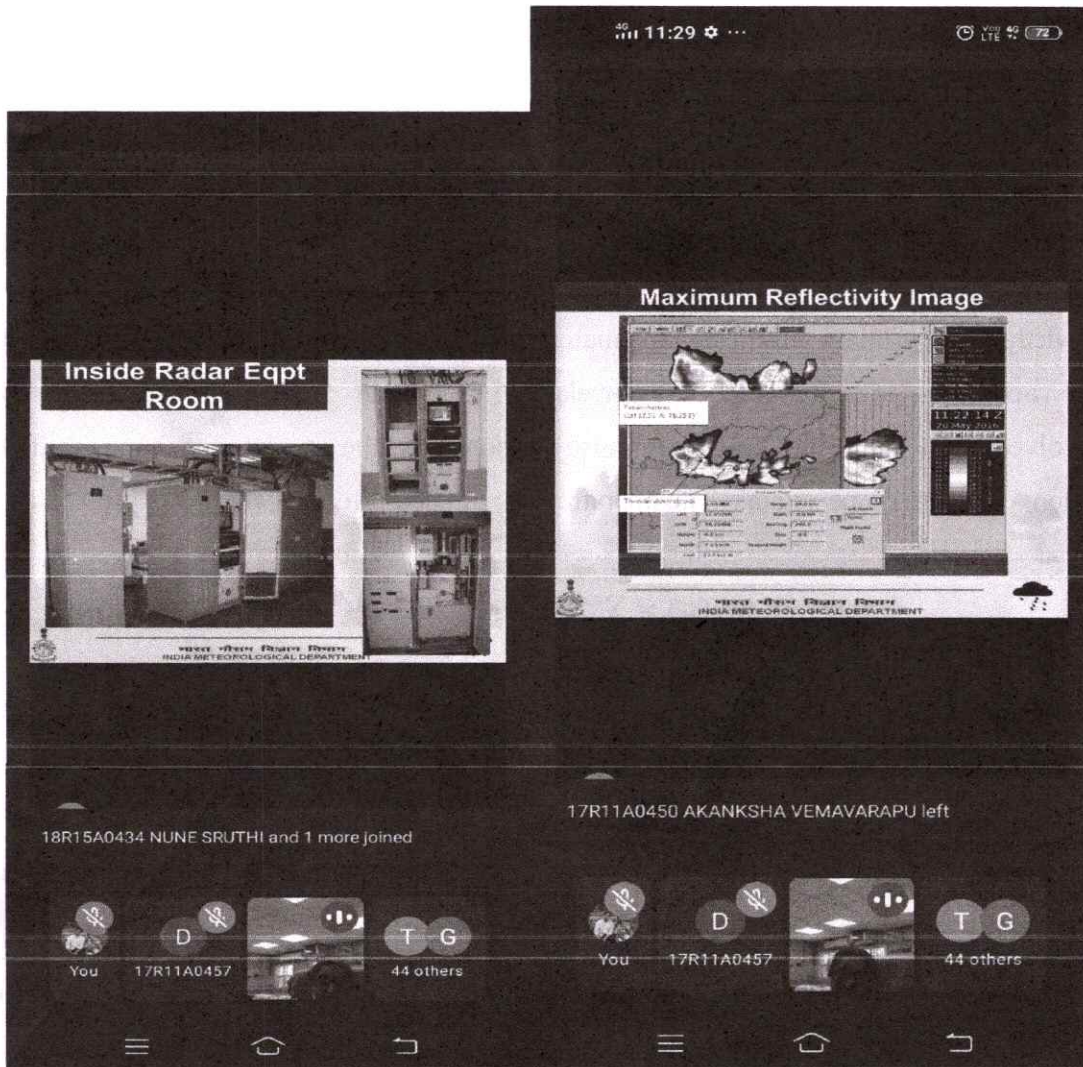
Along with students, 03 faculty members are also visited virtually and upgraded their knowhow.



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*She*  
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Report prepared by


Ms.B. Suneetha, GCET, Keesara

Member, Industrial Visits

Prof. OVPR Siva Kumar

Co-Ordinator, Industrial Visits

HOD, ECE

  
 Guethrajali College of Engg. and Tech.  
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Geethanjali College of Engineering & Technology  
(An UGC Autonomous Institution)  
Department of Electronics and Communication Engineering

Circular

Date: 23.04. 2021

Sub: Virtual Industrial Visit - Reg.

All the Class teachers and students of II B.Tech(ECE) are here by informed that a **virtual industrial visit to LedChip Indus Pvt. Ltd, Hyderabad** is planned on **27<sup>th</sup> April 2021**, from **10:30am to 12pm** through **"Google Meet"**.

O.V.P.R. Siva Kumar,  
Professor, Dept. of ECE  
In charge of Industrial Visits

HOD ECE

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Department of Electronics and Communication Engineering

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

**ECE II yr II Sem students on 27th April 2021**

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

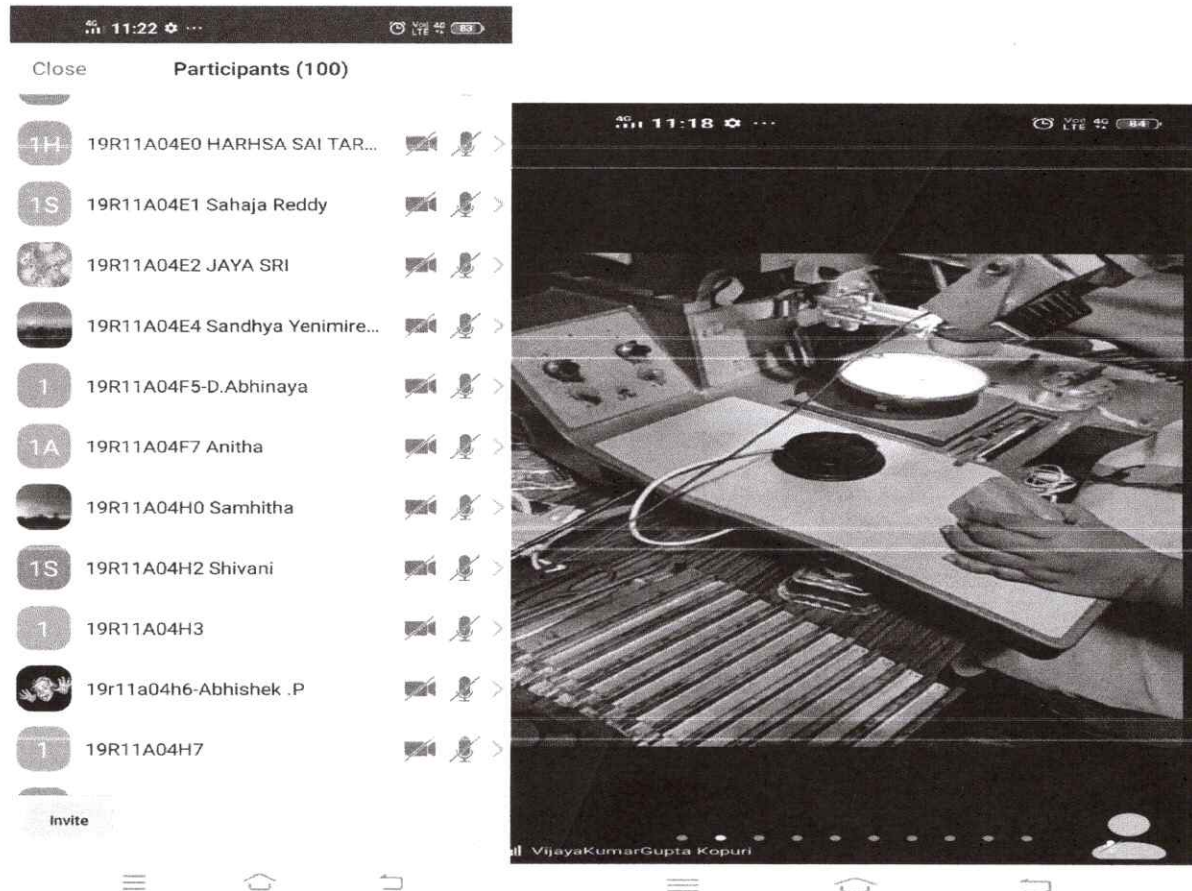
  
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**ECE II yr II Sem students on 27th April 2021** in order to get practical knowledge on design and development of different LED's etc.

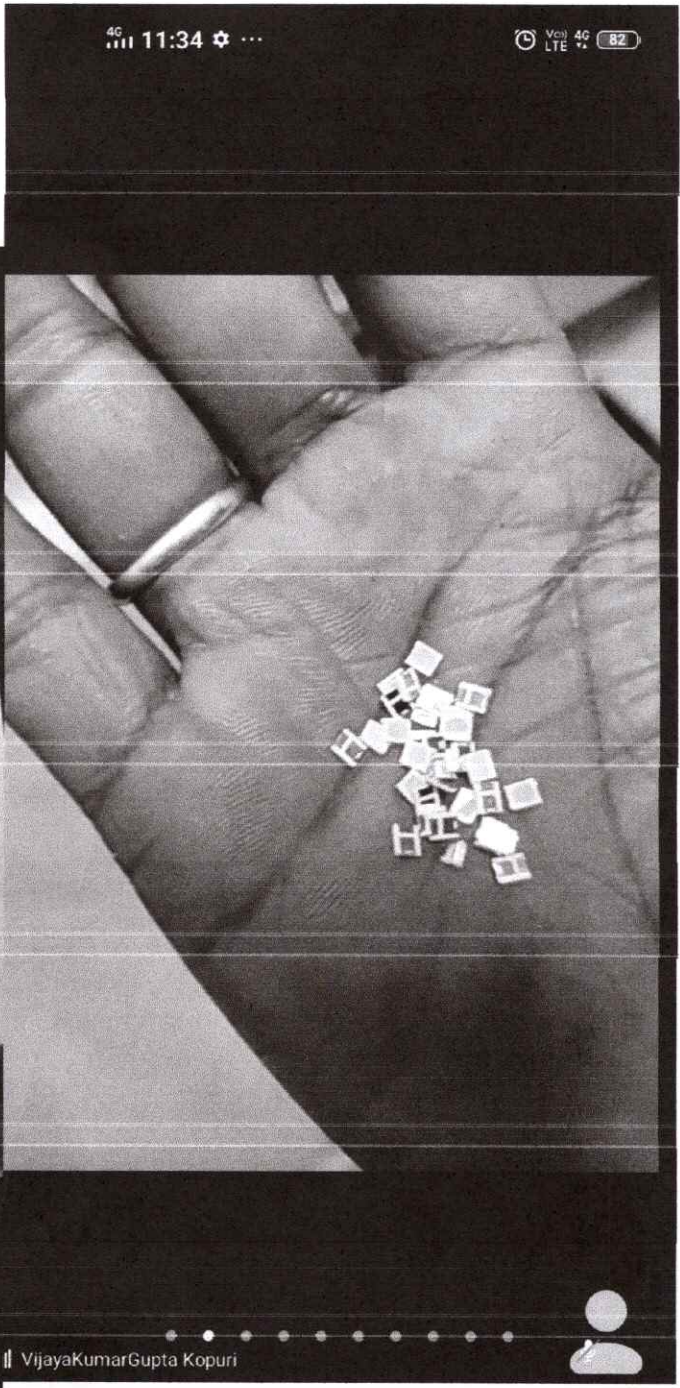
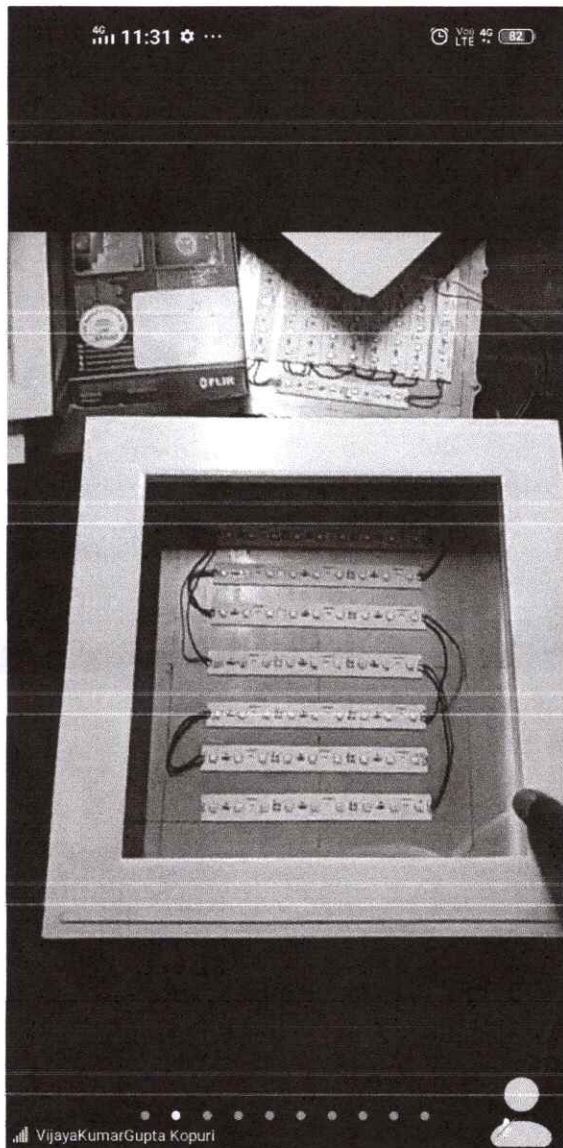
Approximately 100 students visited the industry virtually and gained the practical knowledge.

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

Along with students, 4 faculty members are also visited the industry virtually and upgraded their knowhow.




*Sire*  
Dr. C. R. A.  
Geethanjali College of Engg. and Tech.  
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VijayaKumarGupta Kopuri

VijayaKumarGupta Kopuri



  
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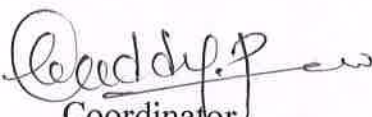
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## DEPARTMENT OF MECHANICAL ENGINEERING

### INDUSTRIAL VISITS

Industrial visit has its own importance in a career of a student who is pursuing a professional degree. It is considered as a part of college curriculum and objectives of industrial visit is to provide students an insight regarding internal working of companies. We know, theoretical knowledge is not enough for making a good professional career. With an aim to go beyond academics, industrial visit provides student a practical perspective on the world of work. Industrial visit is considered as one of the tactical methods of teaching. The main reason behind this, it lets student to know things practically through interaction, working methods and employment practices. Moreover, it gives exposure from academic point of view. Main aim of industrial visit is to provide an exposure to students about practical working environment. They also provide students a good opportunity to gain full awareness about industrial practices.”

A.Y.	Year & Sem	No. of students from each section		Date and duration	Names of places and industries visited	Faculty members accompanied	Whether tour report submitted	Relevance to POs, PSOs
2020-21	III-I	A	33	14 <sup>th</sup> Sep, 2020	Paramount Auto Bay Services, Hyderabad	Mr. B Subbarao Mr. K.Praveen	Yes	PO2, PO3, PO5, PO9, PO10, PO11, PSO2, PSO3
		B	40					

  
Coordinator  
(Mr. Peram Laxmireddy)

  
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### DEPARTMENT OF MECHANICAL ENGINEERING

Date: 11/09/2020

### CIRCULAR

**Sub: Industry Visit schedule for III Year, I semester A&B Section students.**

This is to inform to all III B. Tech students that **“PARAMOUNT AUTO BAY SERVICES” Hyderabad**, industry visit is scheduled on 14<sup>th</sup> September, 2020. In this regard, all students must reach by 9.00 A.M. to GCET with their college ID cards, formal dress and shoes without fail.

S. No.	Year/ Section	Date	TIME
1	III / I sem. A- Sec.	14/09/2020	9.30 AM to 3.00 PM
2	III / I sem. B- Sec.	14/09/2020	9.30 AM to 3.00 PM


Note: Mandatory requirements

- Formal dress and college ID card during industry visit.

Coordinators:

1. Mr. K. Praveen
2. Mr. B. Subba Rao.

  
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HoD., ME.  
Head  
Dept. of Mechanical Engineering  
Geethanjali College of Engineering & Technol  
Cheeryal (V), Keesara (M) Medchal (Dist.

The department has arranged an industrial visit to PABS, Sainikpur, Hyderabad for III<sup>rd</sup> Year II semester students of Mechanical Engineering department. The visit was organized with the prior permission and guidance of Hon. Principal Dr. S. Udaya Kumar and Head of Mechanical Engineering Department, Prof. Dr. S Shyam Kumar

**Introduction to Company:**



Mr. M R Nambirajan is an Electronics Engineer from Chennai, with over 65 years of experience in the automobile field. He has worked in organizations like Civil Aviations and Public Sector and has held positions in a senior capacity. His passion for automobiles prompted him to start Paramount Auto Bay Services in 1988. He introduced path breaking technologies, systems and service earning him good will and respect in a short span of time. Ms Vidya Nambirajan, daughter of Mr,Nambirajan, is a Management Graduate from Hyderabad. She has 29 Years of professional experience with different corporate and has held senior positions. She joined Paramount Auto Bay Services in 2001 where her management skills were put to use. She ensured that the services were nothing less than excellent and was constantly innovating and introducing new technologies to meet the demands of the changing markets.

**What did we do...**

We learn the various instrument used to check the engine condition ,operation and maintainers of various part of the engine in PABS Sainikpur, Hyderabad under the guidance of Ms Vidya Nambirajan The list of the equipment/instrument (Services).

- Engine related
- Diagnostics with scanner
- Preventive maintenance
- Engine decarbonizes
- Body related
- Denting
- Welding (gas and electric )

  
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- Plastic welding
- Painting using latest technology
- Detailing using premium brands
- Interiors
- Washing ( high pressure )
- Use power tools
- Pick up drop
- Quick bay service
- 15bays for work
- Managing car fluids by changing on schedule
- Buying and selling used cars with a factual report

### Services

we follow manufacture specific servicing



### Engine Scanner

Engine scanner to identify problems related to ECM a (electronic control module which controls the parameters of the functioning of a car.



### 2 Post Hydraulic Lift

  
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### **4TonLiftingCapacity.**

Dual hydraulic "direct-drive" cylinders.  
To lift Car (for quick repairs).



### **AC Machine**

Ac machine which completely services the air conditioning of a car infact identifies the leak in the system, also vacuum and fills in gas automatically.



### **Brake Bleeding Machine**

Brake bleeding machine which cleans the entire brake system which runs on hydraulic not only cleans also removes the air bubble present in it.



### **Engine Decarbonizes**

  
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Engine decarbonizes which cleans the engine of carbon particles that lowers the life of a engine ,this cleanser makes an old engine lurch back to life.



### **Injector Cleaner & Ultra Sonic**

Suitable for cleaning 4 injectors simultaneously.  
Ultra Sonic Bath tub.  
Uniformity test, Spark test, Leakage test and Auto test.



### **High Pressure Washing**

Lance integrated with regulator for pressure and spray width for fatigue free working.



Plastic Welding Machine to fix hard plastic in cars. **Plastic Welding Machine**

**PABS strives to achieve the motto**

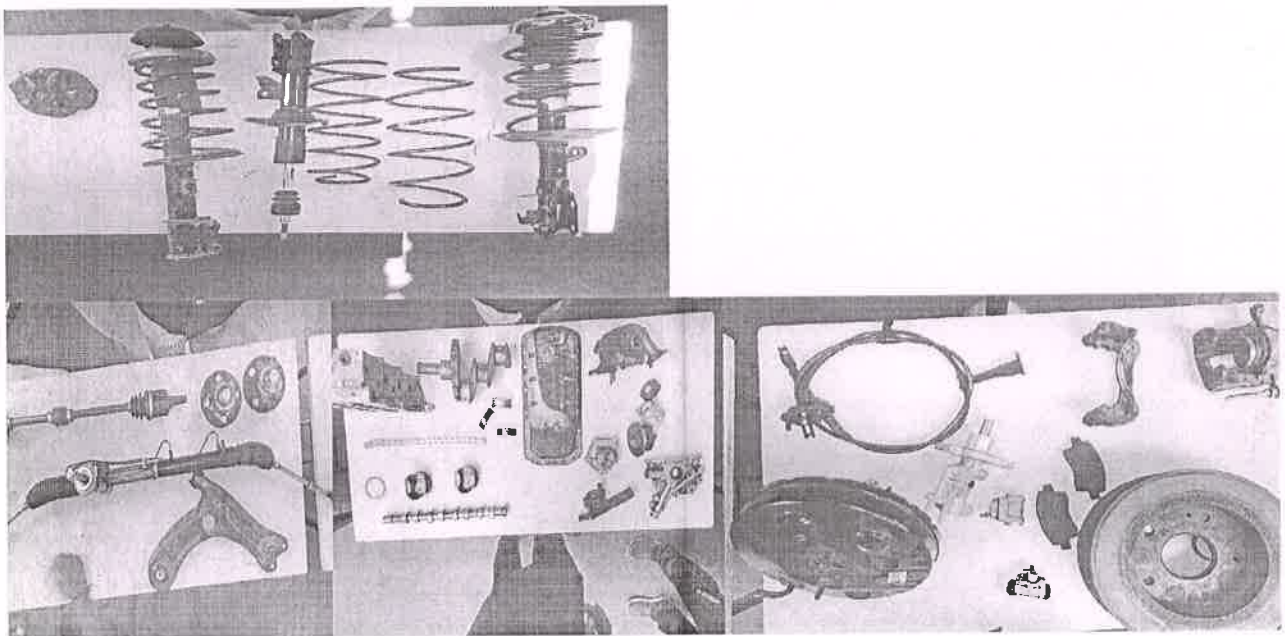
  
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"where Skill meets Service" in the automobile profession. The focuses on serving the community by training under privileged youth and women in the areas of automobile repair and service by creating a unique training program that bridges the gap between the class room training with real time workshop experience. **we** not only trains the students but also assists them in placement opportunities around the globe. This is a small contribution from us to support our nation to overcome unemployment specially the youth and women who are underprivileged .We are affiliated to **AUTOMOBILE SKILL DEVELOPMENT COUNCIL OF INDIA** and conduct Automotive service related course related courses at different levels. On successful completion of this course they are certified and placed pan India also abroad **Our mission statement is changing one life at a time**, and our vision is to gain global recognition in this Industry

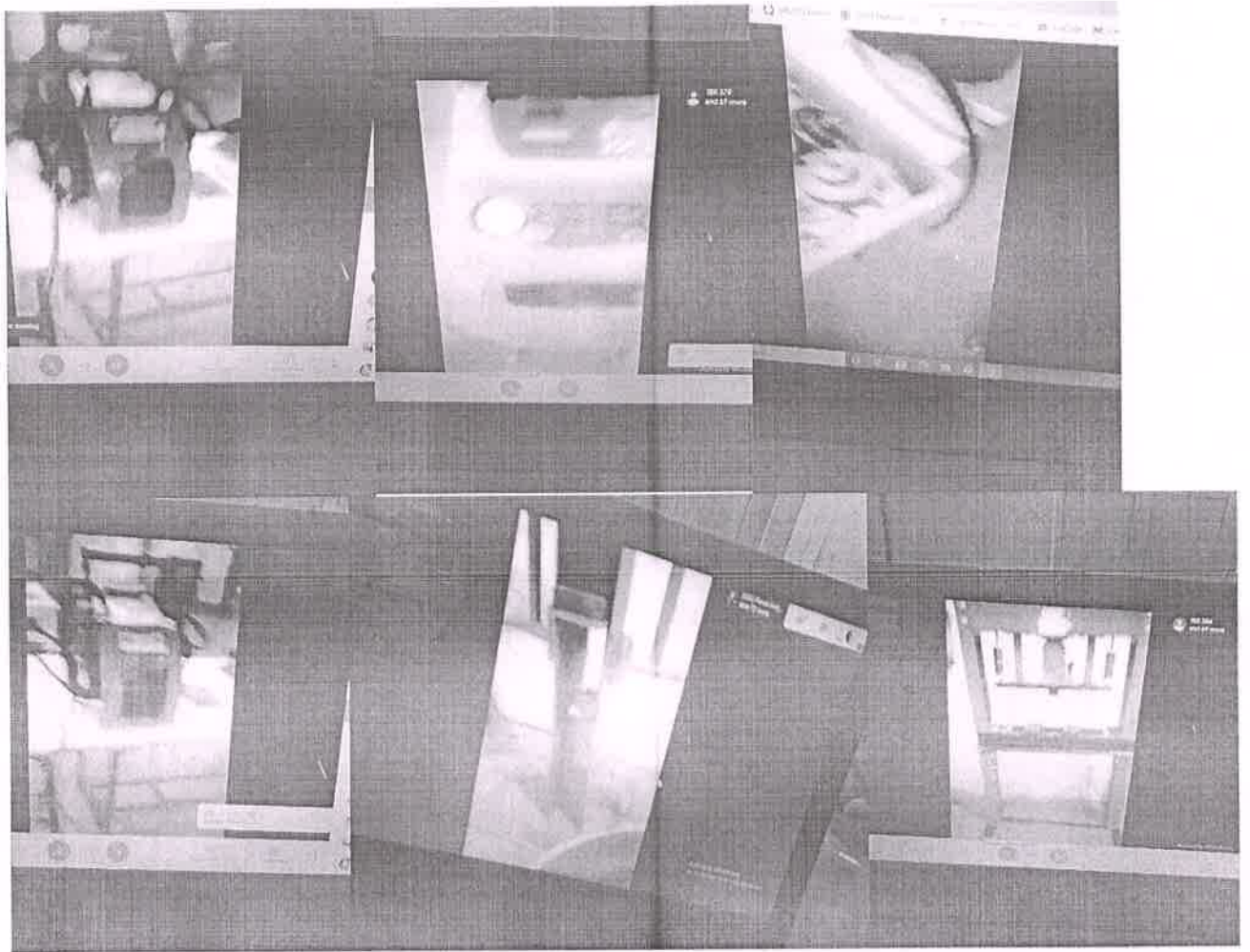
PABS proudly announces the collaboration with German in vocational training

Study in India and get a German certification ....DUAL PRO AHK in Automotive trade .

### **Industrial visit Photos**



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*[Handwritten signature]*

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**Channarayana (V), Kasaragod (M), R.K. Dist. (A.P.) - 501 301**

*[Faint, illegible text, possibly a stamp or additional address information]*

## Conclusion:

The visit was very fruitful as it improved our knowledge in Automobile Services ,body painting techniques and different type of instruments . We had very good support and cooperation from all concern instructors available in the PABS who explained each and every section very interestingly and deeply.

We extend our heartiest thanks to **Ms. Vidya Nambirajan** for making on 14<sup>th</sup> September, 2020 day to cherish for our students who are honoured with your humble gesture to get an opportunity to visit of PAB.

We want to thank to all Technicians who have spent their valuable time in spite of their busy schedule.



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