



Department of
ELECTRICAL &
ELECTRONICS
ENGINEERING



LUMINANCE'21

ABOUT THE DEPARTMENT

Vision of the department

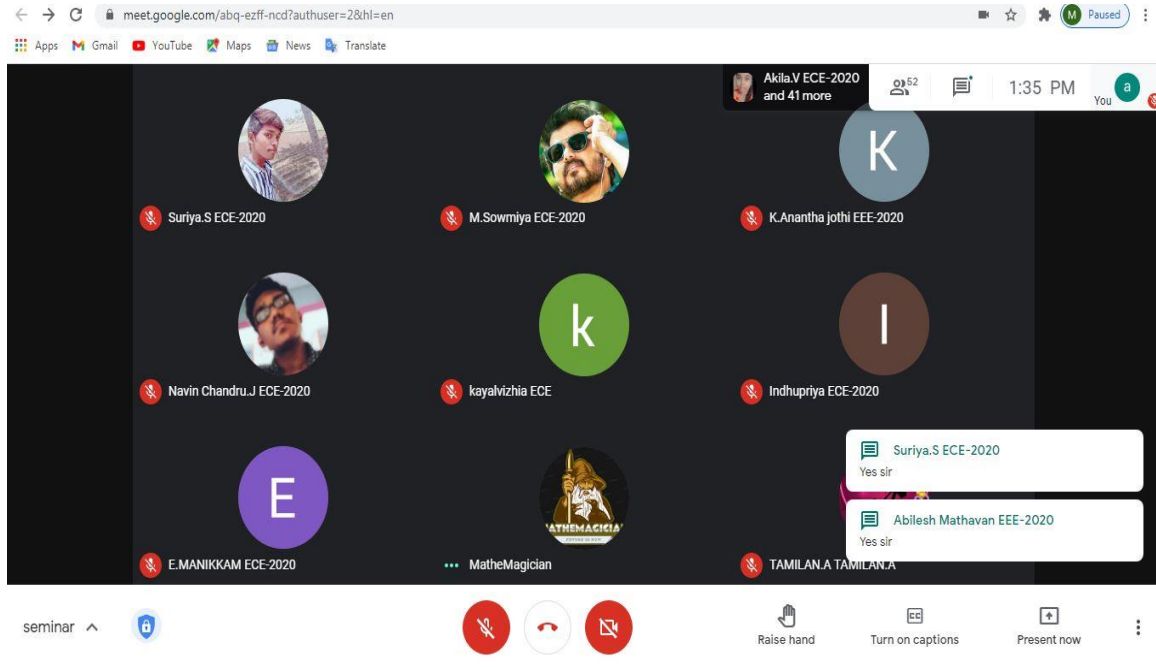
To be a place of center of excellence by imparting quality teaching and innovative research, promoting technology development and consulting service in the frontier areas of Electrical and Electronics Engineering.

Mission of the department

To empower students with start of art technologies to meet the growing challenges of the industry. To educate the students with strong foundations to enable them for continuing education. And to promote research through constant interactions with R&D organisations and industry.

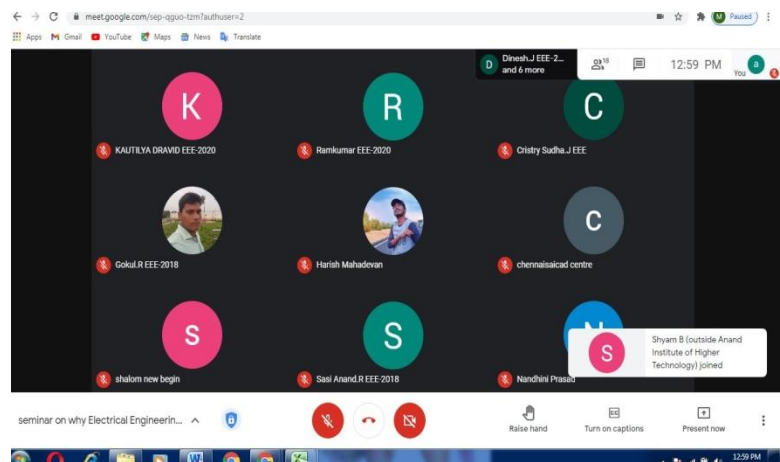
WEBINAR ON CARRIER GUIDANCE IN DIVERSIFIED TECHNOLOGIES

A Seven days “**Webinar on Carrier guidance in diversified Technologies**” has been arranged by our department and was conducted on **12.06.2020 TO 18.06.2020** .First day of the **Webinar** was conducted by **Mr. Suresh Malli Founder, Global Campus connect**. The second day was conducted by **Mr. Mohammed Akram.Z, Design Engineer, Renault Nissan, Chennai** .The next day was conducted by **Mr.K.Vijayakumar, Head-Material Rane Brake Lining Limited** followed by **Mr.K. Vijayakumar Founder & Director Minniyal Pvt Ltd** and **Dr.T.Theivasanthi, International Research Center, Kalasalingam University** on the next 2 days. Whereas the last 2 days were conducted by **Dr.D.Chandrasekar Professor in Mechanical department of St.Peters Institute Of Higher Education**. Around 30 students of our department participated in this webinar actively.



WEBINAR ON REAL TIME EMBEDDED APPLICATIONS

A Webinar on "Real time embedded applications" has been arranged by our department and was conducted on **21.8.20** by **Mr. Deepan Raj**, **Data Scientist, HCL Technologies, Chennai**. About 30 students from the department gained knowledge from this Webinar



GUEST LECTURE ON “HIGH VOLTAGE APPLICATIONS”

A GUEST LECTURE ON “HIGH VOLTAGE APPLICATIONS” has been arranged by our department and was conducted on **19-03-2021** by **Dr. R.Seyezhai**, Professor, SSN College of Engineering About 30 students from the department gained knowledge from this guest lecture.



GUEST LECTURE ON “WIND ENERGY CONVERSION SYSTEMS”

A GUEST LECTURE ON “WIND ENERGY CONVERSION SYSTEMS” has been arranged by our department and was conducted on **15-02-2021** and the resource person was **Mr. Krishna manoharan Executive Engineer Chennai Petroleum Corporation Limited**. The following students from the department gained knowledge from this guest lecture.



S. No	Stud. Name
1	R.GANESH BABU
2	K.KALAIMANI
3	G.MURALI
4	S.VASANTH

PLACEMENT PROGRESS TILL FEBRUARY 2021

The following students have got placed during the month of February 2021



S.No	Name of the student	Company Placed (only in February)
1.	Ganesh Babu. R	AVA SOFT
2.	Kalaimani. K	Ucal fuel system
3.	Murali. G	CSS CORP
4.	Vasanth.S	VOLTECH



ELECTRONICS WITH AI IN INDUSTRIAL SECTOR

The equipment is designed with artificial intelligence which makes the work of engineers easier in the industrial sector. The construction of machine learning and AI platforms make the work easy by providing new codes. This will provide feedback to the management and helps in giving solutions for repairs. AI is almost using in all sectors and it is also making the work ease in the electrical and electronics. The possibilities of using AI in electronics are endless and it will be interesting to see the various areas in which companies will incorporate AI in the near future.

The industry is also using AI to reshape product development cycles, improve product design processes, reduce defects and deliver products faster to the market. With AI, manufacturers are adding in-built security options for these connected devices and making them more secure than ever.

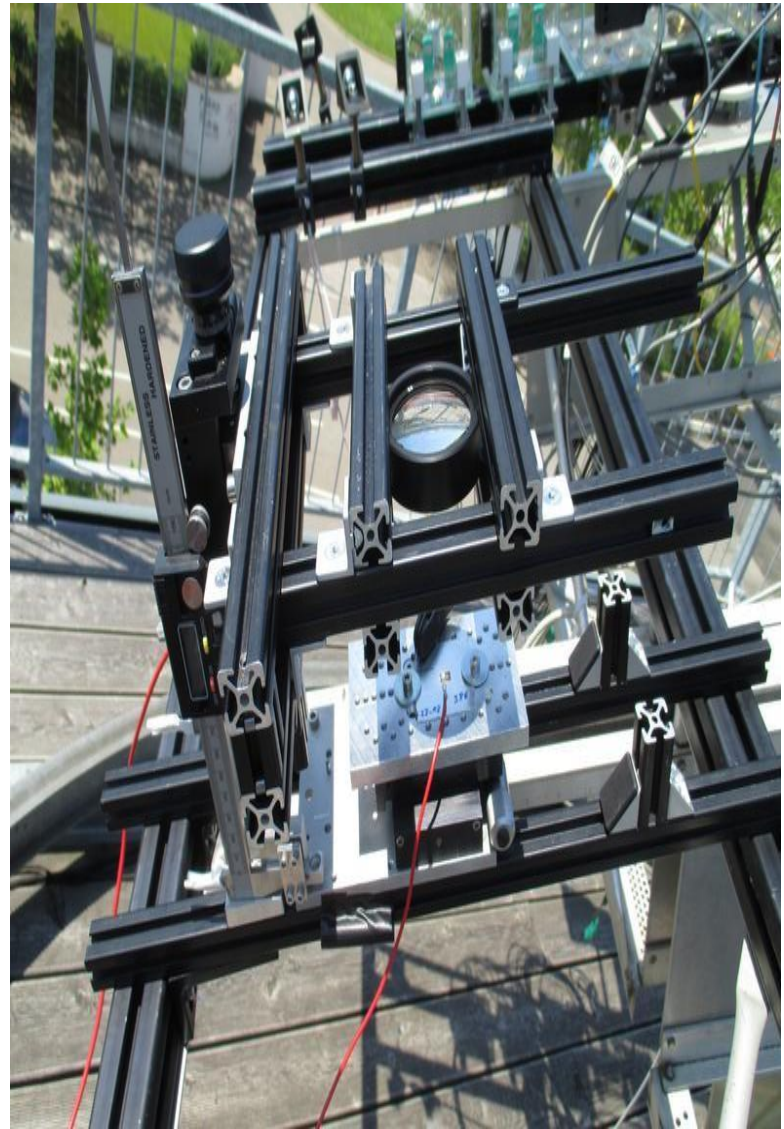


CONCENTRATOR PHOTOVOLTAIC TECHNOLOGY CONTINUES TO BREAK NEW RECORDS

The highest efficiencies for the direct conversion of sunlight into electricity are reached with concentrator photovoltaic (CPV) systems, and the technology still promises room for improvement. Multi-junction solar cells are used in concentrator photovoltaics (CPV). This technology is implemented in regions with a high share of direct irradiation to generate renewable electricity at cost-effective prices. In 2014 the researchers in Freiburg, together with their French partners Soitec and CEA Leti, achieved new world-record efficiency for a four-junction solar cell.

The mini-module holding the new current record is based on this type of multi-junction solar cells in combination with a high-efficiency optic. The details of the technology behind this success will be presented at the upcoming CPV12 International Conference on Concentrator Photovoltaic Systems.

Fraunhofer ISE and the US research institute NREL (National Renewable Energy Laboratory) publish a current report on the status of this exciting technology, entitled “Current Status of Concentrator Photovoltaic (CPV) Technology”



WIRELESS CHARGING IN TREND

Wireless charging is upcoming technology to be used by humans for charging electric vehicles. These days humans are using wireless charging for personal devices like smart phones, laptops, and earbuds. In coming years the electric car owner can charge the car by placing it in the parking slot without any type of plugging. This type of charging is very cost-effective and high efficient.

The days of charging your electrical gadgets through cables and cords are passé. It's been more than a century that the wireless charging technology has become popular. The magnetic resonant coupling, invented by Tesla, permits the energy to be sent over the air via two circuits – a transmitter and a receiver. This technique was not used in the real world for about hundred years. However, there are numerous wireless charging methods available today that reduce the need for cords on everything from mobile phones to wearable smart gadgets, laptops, household appliances, and automobiles



Save Electricity



- Electricity is an instrumental element in all our lives.
- The birth of electricity has given birth to new standards of comfort.
- In the contemporary world, a day without electricity cannot be imagined.
- We often misuse electricity through ignorance and psychological limitations.
- Humanity has started to consume electricity via various electrical appliances that seem to make their lifestyle easy.
- Whether known or strange, we have wasted a lot of natural resources via different means.



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1. K.KALAIMANI– IV yr-EEE
2. G.MURALI– IV yr-EEE
3. Aravin Sekar G– III yr-EEE
4. Harish.M – II yr-EEE
5. Tajudeen.M– II yr-EEE

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