



Department of
ELECTRICAL &
ELECTRONICS
ENGINEERING



LUMINANCE ' 22



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.

National level technical Symposium “PROCYON’2k22”

PROCYON’2k22 a convention themed **“National level technical Symposium “PROCYON’2k22”** for engineering students has been organized by our EEE department of Anand Institute of Higher Technology on **14-05-2022**. **Dr.R.Srinivasan, Chairman of TNSCT** was honoured as chief guest and the souvenir was released by him. Students from many engineering colleges have actively participated in various events like Paper/Multimedia/oral presentation, Robotics, Project display, Technical quiz, Group discussion and photography.

Nandhiniprasad of III year EEE and SURENDHAR R of final year EEE

Edited the technical magazine.



WORKSHOP ON INDUSTRIAL AUTOMATION USING PLC IN ASSOCIATION WITH ISTE

Two days workshop on “OVERVIEW OF PLC & SCADA ON INDUSTRIAL AUTOMATION USING PLC” has been arranged by our department in association with **Indian society for technical Education (ISTE)** and was conducted on **23-09-2021** to **24-09-2021** the workshop was conducted by A.Karthikeyan, Technical specialist in Technocrat automation, Chennai. About 15 students from the department actively participated in the workshop.



SEMINAR ON BASIC CONCEPTS OF ARTOS

A **IAENG** (International association of Engineers) in association with our department of **EEE** has organized a seminar on “ **BASIC CONCEPTS OF ARTOS**” was conducted on **10th February 2022** at our college. The resource person who conducted the seminar was **Mr.S.ARUN KUMAR, TECHNOCRAT AUTOMATION SOLUTIONS PVT LTD, CHENNAI**. The Seminar made our students to gain the knowledge on **ARTOS** and its usage in recent development of Automation process in various industries.

ARTOS facilitates learning of models for visual object detection by eliminating the burden of having to collect and annotate a large set of positive and negative samples manually and in addition it implements a fast learning technique to reduce the time needed for the learning step

Around 50 students have been actively participated in this seminar.



PLACEMENT PROGRESS IN FEB'22

The following students have got placed during the month of february 2022

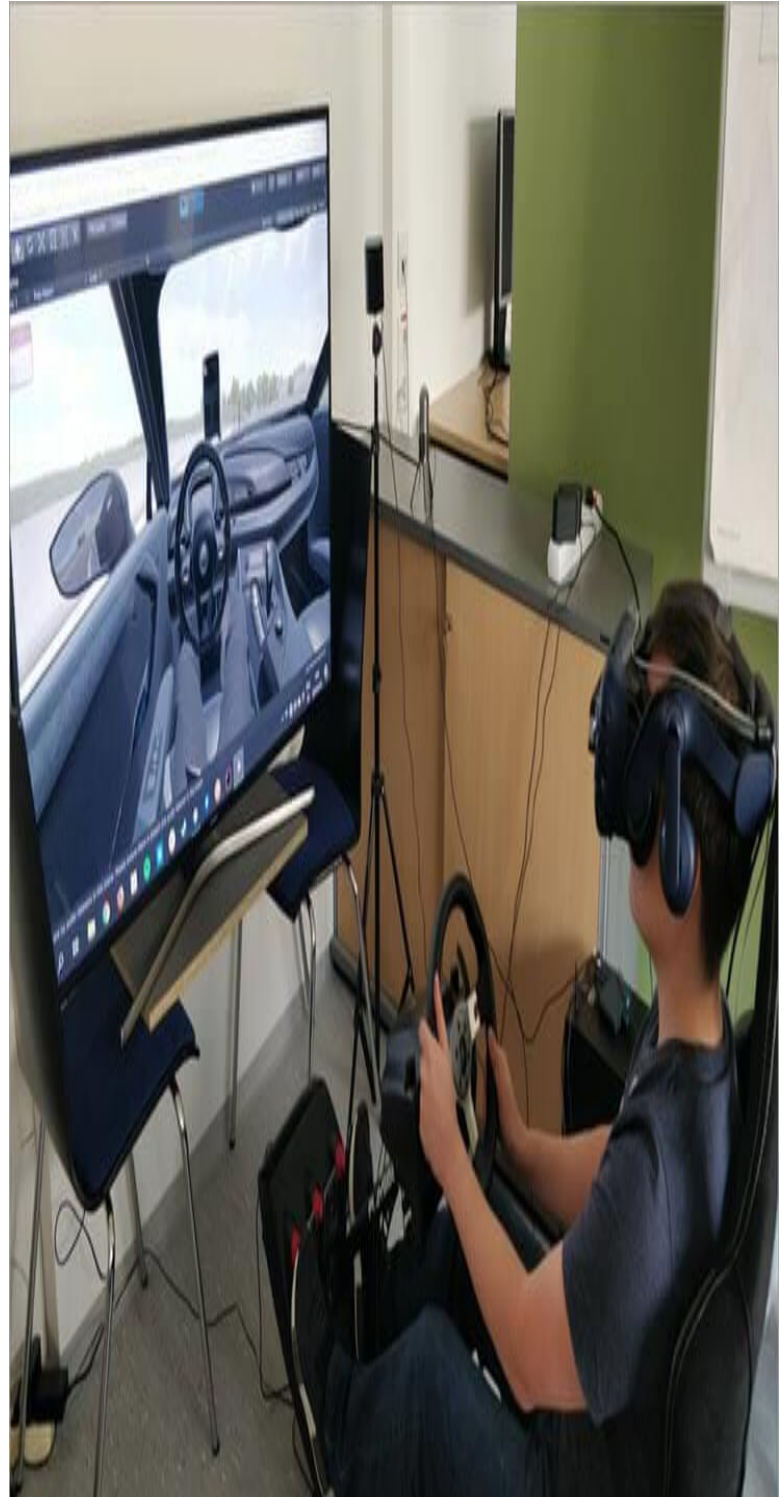
S.No	Name of the student	Company Placed
1.	Anand R	Sutherland
2.	Aravin Sekar G	Ucal fuel system
3.	Dhana Sagaya Jose M	Bharat refrigeration
4.	Mahendran S	Bharat refrigeration
5.	Manoj Kumar S	Ucal fuel system
6.	Mohammed Mudaseer N	Ucal fuel system
7.	Sasi Anand.R	Sutherland
8.	P.Monika	CSS CORP
9.	Surendhar R	Bharat refrigeration
10.	Shalom New Begin	Sutherland
11.	Gokul R	Bharat refrigeration

VIRTUAL REALITY PAVES WAY TO THE DIGITAL WORLD

Virtual reality takes us to the designed world which is completely digital. As we all know that virtual reality is helping from the dangerous scenarios by simulating the danger zones. Virtual reality is now heavily used for gaming also as its virtual reality attracting people.

The VR box provided is the highest selling electronic product these days as the people will go into the digital world they choose to enter. Virtual reality and Augmented reality are playing a key role in the digital world nowadays. They can be used for the 3D shape development for students. These are very helpful for both engineering and medical students.

Virtual Reality (VR) is a **computer-generated environment with scenes and objects that appear to be real, making the user feel they are immersed in their surroundings.** This environment is perceived through a device known as a Virtual Reality headset or helmet.



Wireless Wearable Technology

These days the wireless wearables are increasing rapidly. The main examples of wearables are smart watches, Proxy bands, and some other bracelets. **Proxy bracelets are used by electrical engineers as they warn when we get near to the high voltage devices.** In professional sports, wearable technology has applications in monitoring and real-time feedback for athletes. Examples include accelerometers, pedometers, and GPS's which can be used to measure an athlete's energy expenditure and movement pattern.

In cyber security and financial technology, secure wearable devices have captured part of the physical security key market. McLearn, also known as NFC Ring, and Vivo Key developed products with one-time pass secure access control.

In health informatics, wearable devices have enabled better capturing of human health statistics and have facilitated data-driven machine learning algorithms to analyse the health condition of users.

In business, it helps managers easily supervise employees by knowing their locations and what they are currently doing. Employees working in a warehouse also have increased safety when working around chemicals or lifting something. Smart helmets are employee safety wearables that have vibration sensors that can alert employees of possible danger in their environment.



ELECTRIC VEHICLES WILL PEAK IN SALES BY 2040

Electric vehicles (EVs) will become cheaper to run than petrol vehicles in the 2020s due to the falling price of battery technology according to new research.

Sales of EVs will hit 41 million by 2040; representing 35 per cent of new light duty vehicle sales claims the study by Bloomberg New Energy Finance. This would represent an almost 90-fold increase on the equivalent sales figure for 2015 with approximately 462,000 EVs sold last year, a 60 per cent rise from 2014.

By 2040 EVs will represent a quarter of the cars on the road, displacing 13 million barrels per day of crude oil but using 1,900TWh of electricity. This would be equivalent to nearly 8 per cent of global electricity demand in 2015.



ELECTRICAL SAFETY

Don't always believe what you hear

MYTH

VS

FACT



Electricity always takes the path of least resistance

Although the path of least resistance is the easiest to take, an electrical current can take any conductive path.



Voltage has to be high to kill

Although the voltage plays a role in how strong the current flows, exposure to the current itself is what's deadly. Even lower voltages can kill.

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