

December-
2022

Institute Vision

To be a nationally recognized centre of excellence in engineering education and research for creating professionally competent and socially committed engineers equipped to meet the developing technological and socio-economic needs.

Institute Mission

1. Impart technical education through value-based holistic teaching and learning integrating innovative practices.
2. Nurture the practice of real-world problem solving, the spirit of entrepreneurship, and critical thinking among the students.
3. Foster a conducive environment for Research, Innovation, and extension services.
4. Develop the potential of human resources to meet the requirements of cutting-edge technology.
5. Prepare all students for successful careers based on a strong moral & ethical Foundation.



This issue

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Innovative Smart grid Technologies – Shaping the future

A smart Energy Management System (EMS) is a computer-based system that monitors, controls, measures, and optimizes energy usage in a building, factory, or any other type of facility. The systems can link electricity-consuming structures, such as HVAC, lighting, and machine tools, with meters, detectors, and other devices that can monitor measures, and integrate information structurally.

Advanced Metering Infrastructure (AMI) is an integrated system of smart meters, data management systems, and communication networks that allows utilities and consumers to communicate in real-time. It is proving to be a budding smart grid solution and is helping to advance energy management systems overall.

Sensor-enabled IoT devices, appliances, and hubs that operate a smart house or any other connected area provide statistics on energy use. This information is then utilized to evaluate power use, compute costs, manage appliances

EVs are a favored answer to global warming concerns, given the evident modernization of the transportation industry. In terms of innovative smart grid technology, the arrival of plug-in electric cars brings with it a slew of difficulties and opportunities for power grid sustainability and energy management systems. If electric vehicles are introduced to networks as regular loads, there will be little room for load varying flexibility, putting the grid at risk.

As the energy business remains tremendously complicated, the innovative smart grid technologies can assist local governments and big energy giants in accelerating the adoption and lowering the cost of smart grids, rendering the world, a solution to combat climate change.



Department Vision

Become a premier department to groom professionally competent and ethically responsible Electrical Engineers capable to address the changing needs of the society.

Department Mission

The Department is committed to:

1. Impart value based technical education leading to quality professionals in the field of Electrical Engineering.
2. Inculcate team spirit and leadership qualities in the professional career.
3. Establish state-of-the-art support facilities to do research and innovation on societal needs
4. Instill moral and ethical values among the faculty and students

New Joining



Ms. Ragi R
Assistant Professor



Electrical engineering is undergoing a rapid transformation as a result of ongoing breakthroughs and ambitious research in all areas around the world aimed at improving to generate, store, and utilize electrical energy. Despite substantial progress in recent years, the electrical engineering business shows no indications of slowing down, in fact, it is expanding at breakneck speed.

Energy is the fuel of the global Economy. As the demand of electrical energy is rising day by day, we need to switch to renewable and sustainable sources of energy, such as solar, wind, geothermal etc., enabling the smart grid to integrate the cutting edge generation, transmission, and distribution of electric power.

By 2030, it is expected that around 125 million electric vehicles will be on the road. Many EV manufacturers are significantly investing in battery development, usability enhancements, charging technology advancements, and more precise self-driving, solar-powered EVs, and even electric/solar planes.

Although wireless power transfer is still in its early stages, its prospects appear promising. Improved wireless charging will benefit mobile phones, PCs, earphones, and other smart gadgets, and even EVs.

“Many disciplines of electrical engineering are affected by IOT, such as smart grids, smart lighting, smart inverters, visible light communications SCADA etc.”

Drones are used by electrical engineers to investigate potentially dangerous conditions without putting themselves in danger. With its cameras, infrared, and other sensors, it saves the lives of electrical engineers and provides a clear picture of the hazard. Drones also aid in the recording, examination, and analysis of the job site, providing reliable data and increasing production.



What electrical engineering graduates really needs to know ?

Electrical Power is present in unlimited quantities and can drive the world's machinery without the need of coal, oil, gas or any other of the common fuels - Nikola Tesla

EYE ON IT

Graphene Supercapacitor

The graphene super capacitors could really change the technology landscape. While computing power roughly doubles every 18 months, battery technology is almost at a standstill. Super capacitors, which suffer virtually zero degradation over 10,000 cycles or more, have been cited as a possible replacement for low-energy devices, such as smartphones

EVENTS

Conducted a two day workshop on Public Financial Management System in association with IEEE and Finance Ministry of India



AWARDS



SEEM AWARDS 2021

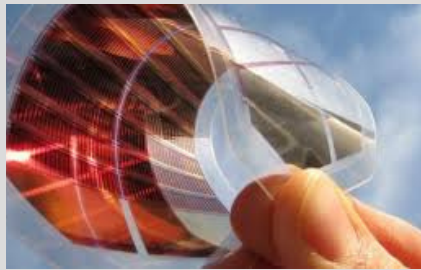
PRESTIGIOUS **SEEM** NATIONAL ENERGY MANAGEMENT SILVER **AWARD** BEING AWARDED TO **VISAT** ENGINEERING COLLEGE UNDER THE CATEGORY BEST EDUCATION AT SEEM INDIA ENERGY CONCLAVE & AWARDS 2021, NEW DELHI ON 16TH SEPTEMBER 2022

VISAT ENGINEERING COLLEGE
MANAGED BY UNISIS GROUP OF COMPANIES

TESLA DELIVERED EV SEMI - TRUCK

First and foremost, it's all electric, so has significantly reduced emissions, while also having impressive acceleration – for a truck – of zero to about 100kph in 20 seconds. Tesla showed a time-lapse video in which a Semi, which was said to be “fully loaded”, drove 500km on a single charge. It said it can recover up to 70 per cent of range in 30 minutes using Tesla’s Semi chargers, and operators can see estimated fuel savings of up to \$200,000 within their first three years of ownership.

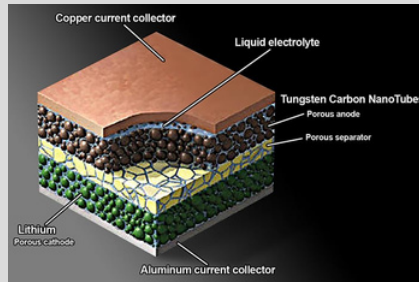
RECENT DEVELOPMENTS



Perovskite Solar Cells



Zinc - Manganeseoxide Batteries



Nanobolt Lithium Tungsten Batteries_

UPCOMING EVENTS

- **RENEW – EEE Association Inauguration - 5th January**
- **Motor Winding Workshop - 5th January**

SPOT LIGHT

കാട്ടുവിശേഷം
02 EKM MK **ദീപിക**
2022 സെപ്റ്റംബർ 21 ബുധൻ

എൻജിനീയറിംഗ് അവാർഡ് വിസാറ്റിൽ

ഇരുപത്തിയെട്ടാം നൂറ്റാണ്ടിൽ എൻജിനീയറിംഗ് അവാർഡ് വിസാറ്റിൽ ഏറ്റെടുത്തു. എൻജിനീയറിംഗ് അവാർഡ് വിസാറ്റിൽ ഏറ്റെടുത്തു. എൻജിനീയറിംഗ് അവാർഡ് വിസാറ്റിൽ ഏറ്റെടുത്തു.

ഇലഞ്ഞി വിസാറ്റ് എൻജിനീയറിംഗ് കോളേജിൽ കോഴി ധനകാര്യമന്ത്രാലയത്തിന്റെ ആഭിമുഖ്യത്തിൽ പി എഫ് എം എസ് ദുരീന ശില്പശാല നടത്തി

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വിസാറ്റ് എൻജിനീയറിംഗ് കോളേജിൽ അസോസിയേഷൻ ഉദ്ഘാടനം

ഇലഞ്ഞി വിസാറ്റ് എൻജിനീയറിംഗ് കോളേജിൽ അസോസിയേഷൻ ഉദ്ഘാടനം നടന്നു.