K.D.K. College of Engineering
Department of Electrical Engineering

Issue – 53

UMANG

A monthly newsletter of Department of Electrical Engineering

May 2018

VISION

To impart quality technical education for developing competent electrical engineers capable of accepting challenges of the modern society.

MISSION

M1 To provide an adoptive academic environment with a continuous motivation to budding electrical engineers for making them academically excellent and technically competent having good managerial skills to fulfill the expectations of industries for developing sustainable solutions.

M2 To work for all round growth of students having good moral values in a dedicated manner.

M3 To inculcate a sense of responsibility among the students for well being of the society.

PROGRAM EDUCATIONAL OUTCOMES (PEO)

- To develop graduate engineers with sound technical knowledge and all round personalities ready to pursue high level academic career.
- To produce graduate engineers with broad based trainings to cater to the requirements of modern electrical industries and ready for working as electrical consultants.
- To produce graduate engineers having sensitivity towards global environmental issues and sustainable developments through use of renewable energy sources.
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PROGRAM SPECIFIC OUTCOMES (PSO)

The Department of Electrical Engineering will prepare the graduate engineers having:-

- Technical and managerial skills necessary to enter careers in design, application, installation, manufacturing, testing, operation and/or maintenance of electrical systems.
- Knowledge of information technology skills including word processing, spread sheet, power point presentation, electrical system simulation, computer programming, internet/library research and electrical CAD drawing encouraging and increasing one's abilities for lifelong learning.

More Than a View: Windows Double as Solar Panels

The windows could generate 8 to 10 watts of power, according to Grapperhaus, co-founder and CEO of the startup, called Physee. This enables the user to charge a phone per every square meter [11 square feet] two times a day

The first installation of Physee's Power Windows was unveiled in June in Eindhoven, in the south of the Netherlands. The headquarters of Rabobank, the Netherlands' biggest bank, has been fitted with 323 square feet (30 square m) of the Power Windows. The bank's employees will be able to plug their smart phones into the windows using USB ports to charge their batteries, according to Physee.

Other buildings in the Netherlands are already lined up to receive the innovative solar technology, which has won Physee a place on the World Economic Forum's Technology Pioneers list.

At the end of June, the headquarters of the Amsterdam-based charity the Postcode Lottery were fitted with the Power Windows. After that, Physee will move forward with its first large-scale project: a 19,000-square-foot (1,800 square m) installation in a large, newly built residential complex in Amsterdam, the Bold tower.

Grapperhaus said that the cost of the wiring that brings power from the grid to such windows is considerable in large commercial estates, and investing in power-generating windows would therefore make commercial sense.

Physee is already working on the next-generation technology that would triple the efficiency of the Power Windows. The surface of the second generation of Power Windows will be coated with a special material that transforms oncoming visible light into near-infrared light, which is then transported toward the solar cells in the edges of the windows.

It works similarly to a [glow-in-the-dark star]. The difference is that the glow star emits the green wavelength, but the coating on our windows emits light in near-infrared wavelength.

Allumni's messages

- K.D.K.C.E. has got all the resources, now its upto students here to make the best use of it. Especially, the Electrical Engineering Department where each faculty is excelled in one or other field, who always supported and guided us. They are the biggest reason for our success and achievement.

  Believe, the college has got more than enough for any student to success and rise.

Ayushi A. Sawarkar (2016 Batch)
University Topper (4th Position)
Gate 2018(323/1000)

- Though I got average marks in 12th exam and in SEEE exam, but still I manage to get excellence in college. The faculty of Electrical Engineering Department are very co-operative and supportive. The final year engineering days were most memorable and I will miss my college days. The department not only gave theoretical knowledge but also the practical knowledge. The knowledge that had got in my four year of Engineering helped me in scoring good marks.

Ankit Nimje(2016 Batch)
University Topper (7th Position)
Gate 2018 (441/1000)

- Teachers of KDKCE have always been supportive towards students. They have provided all the facilities needed and most important thing needed i. e. plenty of knowledge. Even in future I believe that they will do everything for betterment of students. I feel lucky as I have been part of KDKCE

Snehal Sendre(2016 Batch)
University Topper (9th Position)
(331/1000)

MOTIVATIONAL THOUGHTS

- It does not matter how slowly you go as long as you do not stop.
  --Confucius

- You can't cross the sea merely by standing and staring at the water.
  --Rabindranath Tagore

- Change your life today. Don't gamble on the future, act now, without delay.
  --Simone de Beauvoir

- A creative man is motivated by the desire to achieve, not by the desire to beat others.
  --Ayn Rand