JUNE, 2019 | VOL 5

CAMPUS BUZZ @KEC

Newsletter: Krishna Engineering College

HIGHLIGHTS

- TECH NEWS
- ALUMINI MEET
- WORKSHOP
- VALUE ADDED COURSE
- SUMMER SCHOOL AUTOCAD
- SUMMER SCHOOL ROBOTICS
- SUMMER SCHOOL FIRST YEAR
- FACULTY DEVELOPMENT PROGRAM

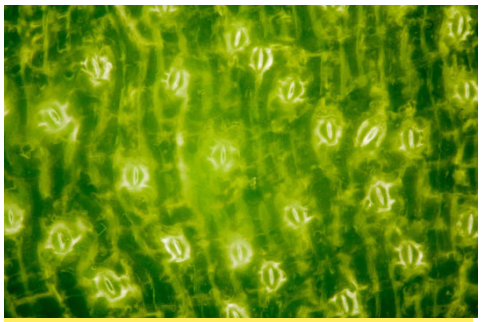
Translating proteins into music, and back

In a surprising marriage of science and art, researchers at MIT have developed a system for converting the molecular structures of proteins, the basic building blocks of all living beings, into audible sound that resembles musical passages. Then, reversing the process, they can introduce some variations into the music and convert it back into new proteins never before seen in nature. Although it's not quite as simple as humming a new protein into existence, the new system comes close. It provides a systematic way of translating a protein's sequence of amino acids into a musical sequence, using the physical properties of the molecules to determine the sounds. Although the sounds are transposed in order to bring them within the audible range for humans, the tones and their relationships are based on the actual vibrational frequencies of each amino acid molecule itself, computed using theories from quantum chemistry.

By turning molecular structures into sounds, researchers gain insight into protein structures and create new variations
By **Science Daily**

Scientists discover how plants breathe

otanists have known since the 19th century that leaves have pores -- called stomata -- and contain an intricate internal network of air channels. But until now it wasn't understood how those channels form in the right places in order to provide a steady flow of CO2 to every plant cell. The new study, led by scientists at the University of Sheffield's Institute for Sustainable Food and published in Nature Communications, used genetic manipulation techniques to reveal that the more stomata a leaf has, the more airspace it forms. The channels act like bronchioles -- the tiny passages that carry air to the exchange surfaces of human and animal lungs. In collaboration with colleagues at the University of Nottingham and Lancaster University, they showed that the movement of CO2through the pores most likely determines the shape and scale of the air channel network. The discovery marks a major step forward in our understanding of the internal structure of a leaf, and how the function of tissues can influence how they develop -- which could have ramifications beyond plant biology, in fields such as evolutionary biology.



Scientists have discovered how plants create networks of air channels -- the lungs of the leaf -- to transport carbon dioxide (CO2) to their cells
By **Science Daily**

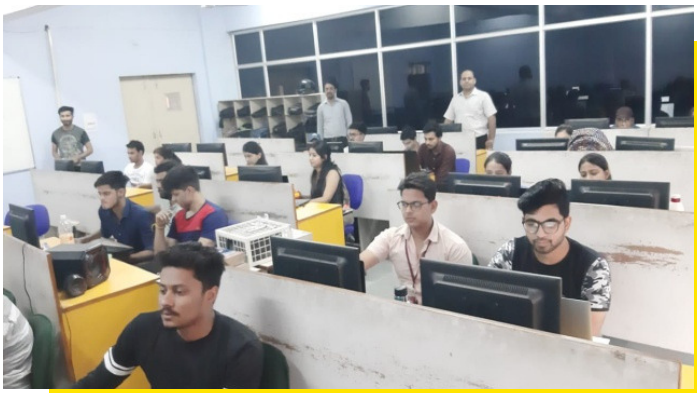
ALUMNI MEET – REMINISCE 2K19

KEC organized its Annual Alumni Meet – REMINISCE 2K19 on 11th May, 2019 on the theme of Anti-Terrorism. Honourable ***Major General (Retd.) G. D. Bakshi*** was the chief guest for the event. He addressed the audience on the issues of terrorism and national security. The audience was jubilant to hear him. A large number of Alumni participated in the event. Alumni were happy to interact with their Faculty and old friends. They also participated in various games and quizzes. Honorable Director Sir, Dr. Sandeep Tiwari gave away the prizes to all the Winners and Runner-Ups. The Programme eventually got over with the distribution of Gifts followed by Dinner and DJ.

WORKSHOP ON DIGITAL SYSTEM DESIGN USING SCHEMATICS AND IMPLEMENTATION ON FPGA

Very large scale integration (VLSI) is the process of creating an integrated circuit by combining millions of transistors or device into a single chip. The microprocessor is one of common device designed using VLSI technology. To have an outlook of the programme, ECE department organized a workshop on Digital System Design Using Schematics And Implementation on FPGA for 3 rd year students by professional corporate trainers from Pine Academy. The duration of the workshop was for 15 days (60-90hrs). Around 28 students were trained through this workshop.

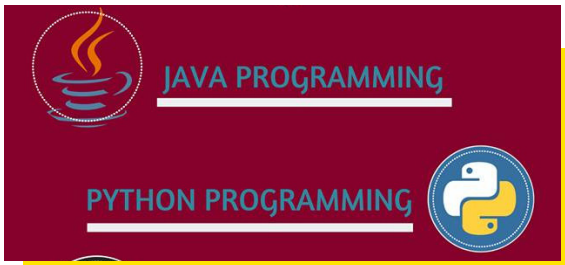
The workshop enabled the students to design various types of digital circuit through the schematic designing procedure using Xilinx synthesis tool.



VALUE ADDED COURSE 20 MAY - 17 JUN '19 CSE DEPARTMENT

JAVA PROGRAMMING

In the current scenario, Java enables businesses to generate more revenue with a faster turnaround by launching their feature-rich and modern mobile applications. SMEs can harness Java in non-enterprise custom software development that offers similar capabilities with better quality and security. For this purpose KEC introduced a value added course on Java Programming for first year students of CSE & IT under the guidance of Ms. Vaishali Puranik.



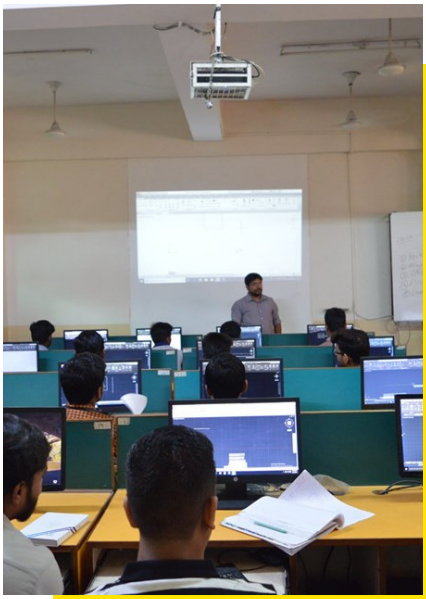
PYTHON PROGRAMMING

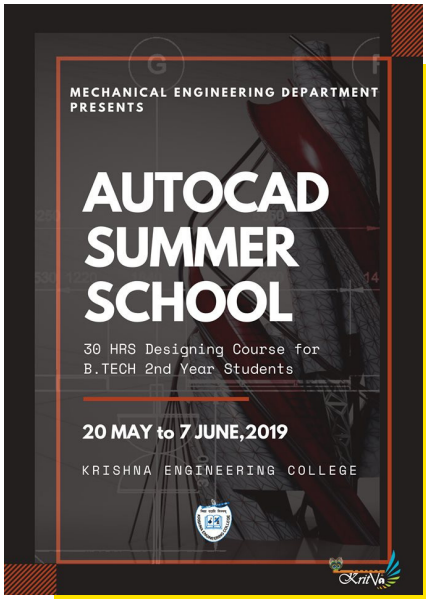
Python can be used for many purposes, from web development to mobile app development to data science. Since the number of data science students and programmers are raising, together with a rising number of Python recommendations for use, the number of Python enthusiasts will not be descending. In line to this KEC organized a two week value added program on PYTHON Programming for CSE/ IT students. Under the supervision of faculty Ms. Dimple Sethi, students were enabled to get a practical knowledge of the concept.

WEB DESIGNING

KEC also organized a value added course on Web Designing for CSE and IT students under the guidance of Ms Umang Kant. The styles and perceptions of web designing or development are becoming more dynamic and vibrant. Therefore, web designing in modern scenario is now being considered an art rather than a field.

SUMMER SCHOOL : AUTOCAD 20 MAY - 7 JUN '19 C.E AND M.E DEPARTMENT





SUMMER SCHOOL : ROBOTICS 20 MAY - 7 JUN '19 ECE DEPARTMENT

Electronics and Communication Engineering also conducted a SUMMER SCHOOL on ROBOTICS from 20 May to 7 June 2019.
"Robotics are beginning to cross that line from absolutely primitive motion to motion that resembles an animal or human behavior."

SUMMER SCHOOL 20 MAY - 4 JUN '19 1st YEAR

A Summer school was conducted from 20 May 2019 to 4 June 2019 for B. tech 1 st year students. Various fun learning activities were conducted for the students with the objective of infusing basic concepts of grammar and soft skills. The summer school was enjoyed by the students in which they not only participated with full enthusiasm but also augmented their learning curve.

FACULTY DEVELOPMENT PROGRAM

Krishna Engineering College, Ghaziabad organized a Faculty Development Program under IEEE Students Chapter on the topic GENERATING EXCELLENCE SYNDROME AMONGST TEACHERS by Prof. N. P. Singh, Chairperson, ASEED-IADMAT on 7th May 2019. The session was a great learning experience for the faculty where they learned the difference between achievement goal and power goal.

"Inspired learning"