

CAMPUS BUZZ @KEC

Newsletter: Krishna Engineering College

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Engineers translate brain signals directly into speech

In a scientific first, Columbia neuro-engineers have created a system that translates thought into intelligible, recognizable speech. By monitoring someone's brain activity, the technology can reconstruct the words a person hears with unprecedented clarity. This breakthrough, which harnesses the power of speech synthesizers and artificial intelligence, could lead to new ways for computers to communicate directly with the brain. It also lays the groundwork for helping people who cannot speak, such as those living with as Amyotrophic Lateral Sclerosis (ALS) or recovering from the stroke, regain their ability to communicate with the outside world. An experiment resulted in a robotic-sounding voice reciting a sequence of numbers. To test the accuracy of the recording, Dr. Mesgarani and his team tasked individuals to listen to the recording and report what they heard.

Bees can do basic arithmetic

Building on finding that honeybees can understand the concept of zero, Australian and French researchers set out to test whether bees could perform arithmetic operations like addition and subtraction. Solving maths problems requires a sophisticated level of cognition, involving the complex mental management of numbers, long-term rules and short term working memory. The revelation that even the miniature brain of a honeybee can grasp basic mathematical operations has implications for the future development of Artificial Intelligence, particularly in improving rapid learning. "You need to be able to hold the rules around adding and subtracting in your long-term memory, while mentally manipulating a set of given numbers in your short-term memory," Dyer said.



Towards reconstructing intelligible speech from human auditory cortex.
Hassan Akbari, Bahar Khalighinejad, Jose Herrero
By **Science Daily**



Numerical cognition in honeybees enable addition and subtraction
Scarlett R. Howard, Aurora Avargues-Weber
By **Science Daily**

COLLEGE FELICITATION FUNCTION

Every year KRISHNA ENGINEERING COLLEGE felicitates the meritorious students who performed well in the academics and excel in their endeavors. The word “felicitation” means an expression of good wishes. It is human nature to feel happy when praised or appreciated for their efforts. Keeping with its tradition of encouraging merit at all levels, the Institute felicitated the meritorious and applaudable students of the college, with certificates and cash prizes. The prize winners got rejuvenated and motivated to work harder and committed themselves to perform even better in the coming examinations.

HIGHLIGHTS



The “FELICITATION CEREMONY” was held on 30th November 2018, in the KEC auditorium, and was graced by the enlightening presence of honorable Shri Atul Garg Ji (Minister of Food and Civil Supplies & Vice Chairman KEC), Shri Sarish Choudhary (Secretary), Shri Sunil P Gupta. (Treasurer) Shri Manoj Goel (Director Admin) and Dr. Sandeep Tiwari (Director KEC). The function began with lightening of the lamp and offering garlands to Maa Saraswati.

Later on, Shri Atul Gargji addressed the students and faculty members and motivated the students to focus on practical implementation of the subjects as well. Dr. Sandeep Tiwari also congratulated the winners and encouraged them to excel in all their future endeavors. The program was concluded after distribution of prizes and certificates followed by refreshment in the College Cafeteria.

INSPIRE INTERNSHIP CAMP 2018

Motivating talented youth to take up Research as a personal undertaking, Innovation in Science Pursuit for Inspired Research (INSPIRE) is one of the innovative programs by the Department of Science & Technology (DST), Government of India .

A five days INSPIRE internship camp 2018 (27th Nov – 1st Dec 2018) was organised at Krishna Engineering College for the students of 11th standards (Science stream). It was a fully residential camp and consisting of 12 hrs of interaction with the students every day. A total of 170 students from 30 renowned schools of Uttar Pradesh participated in the camp. The students were from the top 1% of the total students based on class 10th grades. The camp included sessions on different scientific domains of knowledge by professors/eminent speakers from IITs and other Institutes of high repute, and a hands on practice to make the students aware of the real world problems. In addition Cultural activities for the entertainment of the students and sports functions for charging up the students during evening hours, were regularly organized.

HIGHLIGHTS



DAY 1

- Dr. Rajagopal Krishnamurthi (Professor in Earth Science) IIT Roorkee
- Dr. Gurvinder Singh Sodhi (Department of Chemistry and Forensic) Khalsa College

DAY 2

- Prof. H.B Bohidar (Professor School of Physical Sciences) JNU

DAY 3

- Prof. Karmeshu (School of Computer & System Science) JNU
- Prof. Sunil Bajpai (Department of Earth Science) IIT Roorkee

DAY 4

- M.S Chauhan (Bio science) Director, Goat Research Institute
- Dr. R.K Sharma (Department of Mathematics) IIT Delhi

DAY 5

- Prof. S.K Dogra (Department of Chemistry) IIT Delhi
- Prof. Subir Kumar Sarkar (School of Physical Science)

INDIA FIRST LEADERSHIP TALK SERIES

(Jointly Organized by MHRD Innovation Cell & AICTE)



EPISODE 1

Live session by Mr. Anand Mahindra, Chairman Mahindra Group on Entrepreneurship for Students and Faculty Members

India's first Leadership Talk Series held on 8th Jan 2019 was truly an eye opener for the budding entrepreneurs. The program was broadcasted for the faculties and students at College Campus. A total of 356 students and 85 faculties watched the show in the College auditorium. Mr. Anand Mahindra, Chairman Mahindra Group & Executive Chairman, Mahindra company Ltd. shared his own entrepreneurial orientations and advocated the need for being innovative entrepreneurs. Dr. Abhay Jere, chief innovation officer, MHRD Innovation Cell, regulated the talk show in an impressive manner and took up the questions raised by students which were further addressed by the speaker. Mr. Anand Mahindra appreciated the forum created for such interactions and answered all the queries to satisfaction level. The audience learned a lot from the live talk show and was able to envision their own orientations in the field of entrepreneurship. The audience was also able to differentiate between transactional leadership versus transformational leadership and were able to establish that various leadership styles could be executed depending on the underlying motives. It was also appreciated by the audience that every entrepreneurial endeavor has got its own set of risk factors and that one has to deal with these risk dimensions very tactfully to arrive at a win-win situation.



EPISODE 2A

Off Line Workshop on IPR for Students and Faculty Members

An offline workshop on IPR was conducted in accordance with the suggestion vide MHRD letter No MIC/HC/2018/program/01 dated December 31 2018. The program was organized for the faculties and students at Krishna Engineering College. A total of 364 students and 87 faculties participated in the workshop in the College auditorium. The local IPR expert Ms. Sheetal Pandey (IP Neeti Consultancy, Noida) conducted the session from 10:30 AM to 12:30 PM. It was indeed useful for the audience as they were made conversant with the History of IPR, the World IP organization & its role, as well as roles & functions of IP Indian office. The audience learned the process of **Patent application, Copyright application, trademark application as well as design application**. The expert speaker also discussed at length about a scheme for facilitation start-ups Intellectual Property protection. The session was quite enlightening for the participants.

EPISODE 2B

Facebook live session by Central Experts for Workshop on IPR for Students and Faculty Members

The students & the faculty of KEC attended the live session on "IPR for students & faculty members" conducted by MHRD Innovation Cell on 10th Jan 2019 from 1:30 PM to 3:30 PM. The program was broadcasted for the faculties and students at Krishna Engineering College. A total of 279 students and 21 faculties watched the show in the College auditorium. The IPR expert **Ms. Shwetaree Majumdar, Principal**, Fidus Law Chamber explained eloquently the core concept of the IPRs, its usability and its significance. She also talked at length about the Innovation, Patents, Copyright, Branding, and Trademarks and enlightened the audience with relevant features, laws and their applicability in day today business dynamics. The audience learned about Industrial design and other IPs such as Geographical indications, Semiconductor integrated circuit layout and design, Plant variety, trade secrets etc. The expert speaker particularly advised to recognize and respect one's own IP and that of others so as to ensure that they are rightly protected. The audience also learned about entrepreneurship and digital age and were able to establish the significance of Intellectual Property Rights and appreciated the need to protect them by taking appropriate steps in time.



FACULTY DEVELOPMENT PROGRAM

FDP's have been considered as a standalone educational pedagogy in fostering knowledge & professional skills of faculty. Krishna engineering college organized a two-week faculty development program (17th -29th December, 2018) on "ENTREPRENEURSHIP" sponsored by NSTEDB, DST, Govt. of India. A total of 25 faculties from different Engineering & Management Institutes of Uttar Pradesh participated in the program. The two-week program was started with lamp lightening by Director Sir during Inaugural session and an impressive address by Mr. Amit Kumar, DGM SIDBI (Noida). The FDP was scheduled with different lectures and practical sessions by eminent speakers and experts for enhancing entrepreneurship skills in the faculties.

The FDP was designed to train and develop professionals in entrepreneurship & enterprise building so that they can act as resource persons in guiding and motivating budding engineers to take up entrepreneurship as a career. The FDP provided inputs on the process and practice of entrepreneurship development, communication, and interpersonal skills, creativity, problem-solving, and inputs on resource and knowledge industries. The training methodology included case studies, group discussion, games, and simulation exercise, field visits and classroom lectures.

HIGHLIGHTS



REPUBLIC DAY CELEBRATION

On this 26th January INDIA entered its 70th year of being a republic nation. It is a special day celebrated every year as a National Festival all over India to commemorate and honor the day when the Constitution of India came into force (26 January 1950) as the governing document of India. The preamble of our constitution proudly states that India shall "secure to all its citizens: liberty of thought, expression, belief, faith, and worship."

The very auspicious day started with the Flag hoisting by Dr. Sandeep Tiwari, Director KEC and chief guest, Wing Commander Bhaskar Biswas (Retd.) followed by National Anthem. They motivated the audience with wonderful words. Afterwards, the audience enjoyed dance performances, patriotic songs, and mono act by students. In addition, a cricket match and Tug of war was also conducted for the faculty members. The program came to an end with kite flying by esteemed Director and faculty members followed by refreshment in the Cafeteria.

HIGHLIGHTS



SWACHH BHARAT MISSION

“A clean India would be the best tribute India could pay to Mahatma Gandhi on his 150th birth anniversary in 2019” said **Shri Narendra Modi** as he launched the Swachh Bharat Mission at Raj path in New Delhi. On 2nd October 2014, this mission was launched throughout the country as a national movement.

Cleaning up the country is not only the responsibility of Sanitation departments; all the citizens have an important role as well. NSS unit of Krishna Engineering College organized a cleaning drive under “Swachh Bharat Mission” on 29th Jan 2019. Dr. Sandeep Tiwari, Director KEC and Dean (A) **Dr. Sanjeev Kumar** also participated in this mission apart from other faculties, staff, and students to give an impeccable start and send a message to all fellow beings to contribute to the mission.



WOMEN EMPOWERMENT

NSS society of Krishna Engineering College had participated in the event organized by the renowned **Anokhi club** in the month of Jan 2019, which tries to create an out of home entertainment and engagement platform for the woman to connect, socialize and learn through each other’s experiences. The event at hotel Rousha Inn started by the welcoming of the panelists Miss Anu (wedding planner) & Dr. Sapna Aggarwal (psychologist, counselor, and trainer).

An interactive session began on marriage season where the questions raised by the public as well as the anchors were answered by the experts. The sponsors of the program, every member addressed the audience and promoted the products (like fabric paints, fabric outliner etc) that they have launched. Canvases, fabric paints, paint brushes, and fabric outliners were distributed amongst the audience and they got the chance to use the products and make a masterpiece on their own.



CONGRATULATIONS

The following students from First-year scored **90% & above** marks in the end semester exam held in Dec' 2018

- ANSHITA ARORA (96.00)
- VIDYANSHU MALIK (95.17)
- HARSH KUMAR (92.17)
- SACHENDRA JAIN (95.17)
- VIDUSHI SHARMA (92.00)
- ADITYA MUKHERJEE (92.00)
- SHRUTI ARORA (91.83)
- MUKESH KUMAR (91.83)
- ABHINAV JAIN (91.33)
- MANAN MISHRA (91.33)
- PRABHAT RAJPUT (91.17)
- DINKI GUPTA (91.17)
- RAHUL KASANA (91.00)
- RITIK JAIN (90.50)
- TANSHI SINGH (90.17)
- ARSHARAJ CHAUHAN (90.00)
- DEEPAK PARWANI (90.00)

HIGHLIGHTS



ZONAL FEST

Zonal Literary and Management Fest was held at AKGEC on January 30 & 31, 2019. The students of KEC participated in seven different events namely Fugal Engineering, Debate competition, JAM, Business plan, etc held to test the capabilities of students. The following students of our college performed very well and won awards.

BUSINESS PLAN

- Deepak Parwani (CS 1st Year) - 3rd Prize



FUGAL ENGINEERING

- Team of Swaraj Goel, Siddharth Chatterjee & Samridh (CE 3rd Year) - 2nd Prize



COLLEGE SPORTS LEAGUE

Sport includes all forms of competitive physical activity or games which, through casual or organized participation, aim to use, maintain or improve physical ability and skills while providing enjoyment to participants and spectators. Krishna Engineering College has a well established official sports society, KEC Sports Club. The club organized the second edition of KPL, an intra college league or tournament of various sports events for students within our college on 15th Feb 2019.

This league consisted of several games like Cricket, Basketball, Tug of War, Football, Volleyball, Badminton, etc like last year. Apart from these another two games Kabaddi and Table Tennis were also included this year.



INDUSTRIAL AUTOMATION WORKSHOP @AKGEC, GHAZIABAD

The knowledge is something one gets not only from books but also by applying it in real life. Although an engineer will usually be trained in a specific discipline, he or she may become multi-disciplined through experience. The second-year students of Electronics and Communication Department of our college attended an industrial automation workshop in PLC and HNI lab at AKGEC, Ghaziabad. The aim of this workshop was to get the students to gain more practical knowledge.



INDUSTRIAL VISITS

Industrial visit is a part of professional courses, during which students visit companies and get an insight of on the internal working environment of the company. Industry visits sensitize students to the practical challenges that organizations face in the business world.

CSE DEPARTMENT

Third-year students of Computer Science Engineering & Information Technology of KEC visited The Ministry of Electronics and Information Technology (MeitY) on 6th February 2019. MeitY is an executive agency of the Union Government of the Republic of India. The aim of this visit was to get the students to gain more practical knowledge.



ME DEPARTMENT

Mechanical Engineering Department of KEC organized an industrial visit for 2nd-year students to M.B Rubber Private Limited on 8th February 2019. The aim of this industrial visit was to get the students to achieve more of the useful information

IPR WORKSHOP

Intellectual property rights are the rights given to persons over the creations of their minds. Intellectual Property Rights (IPR) plays a vital role in enhancing the socio-economic prosperity of the country. With the increasing relevance of Intellectual Property (IP) in this era of globalization, it is important to recognize the role which IP systems play in the growth of the Nation. Thus, there is a need to create large public awareness about the pivotal role of IPR in the globalized knowledge economy. With the view to create awareness on the significance of IPR to the people from various sectors in the Country, KEC organized a two-day Workshop on Intellectual Property Rights at Campus sponsored by The Ministry of Electronics and Information Technology (MeitY) on 5th & 6th December 2018. The Workshop covered various aspects of IPR like Patents, Copyrights, Trademarks, etc. The sessions were taken by the speakers having thorough knowledge of the subject who had been practicing in the field for many years.



NEW INITIATIVES BY KEC

- College remains open on all Saturdays to enhance learning of students.
- Minor Project: Compulsory for 3rd year.
- Segregation of weak students (Separate Section).
- Extra time for self study for good students.
- Emphasis on attendance of each student.
- Close monitoring of lecture delivery through checking lecture content of each faculty.
- Close Attendance Monitoring
- 15 days foundation course for newly admitted first year students.
- Basket Analysis of all students on basis of CT Performance & previous result. Mentors assigned for students who score less than 40%.
- Remedial Classes for basket-3 students. Extra & personalized attention to Basket-3 students.
- Classes for improving soft skill & aptitude.
- Effective Utilization of Labs
- Describe technology/questions
- Perform Lab Experience

IEDC ACTIVITIES

- Project Competition for School Students was organized 29.10.2018
- AKTU Dr. Kalam Start-Up Parikrama was held on 16.11.2018, in which our 3 team won the idea presentation Competition (Details Attached).
- ED workshop was held from 17.12.2018 to 29.12.2018.
- Innovative Major Projects by final year students (Attached)
- Emphasis on Innovative Ideas and promotion of Innovative projects.
- Proposal of minimum 5 MSME projects by each department.
- Selection of IEDC Projects.

TRAINING AND PLACEMENT CELL

The TP department at KEC is an exceptional initiative to provide a comprehensive array of services and support for its students that will assist them in their life-long career development and placement. The department acts as a central hub for the overall development of the student for the final placement and is a storehouse of all information and resources.

TRAINING & DEVELOPMENT

The industry is always on the lookout for students who are vibrant, energetic individuals and ready to accept challenges, attentive, a good academic background, fast learners, open to learning even at work and more importantly, possess good communication skills. To fulfill the above and various other industry requirements, the training curriculum is designed to prepare them students for entry-level engineering tasks, for which following training is imparted:

- Personality Development
- Communication Skills & Vocabulary
- Resume Preparation & Email Writing
- Group Discussion
- Interview Skills
- Aptitude Training & Practice Tests
- Arranging mock Interviews.

The department provides support and encouragement for setting up of **startup labs** by the new innovators for the mutual benefits of both and learning opportunities for college students.

FROM THE EDITORIAL BOARD

“Not by sight is it grasped, not even by speech, not by any other sense organs, Austerity or work... That subtle self is to be known by thought”

True knowledge fuses credence and science and is a concern for humans. The campus buzz exhorts you to get back to education with respect and gratitude and thus get enlightened. Education in its general sense is a form of learning in which the knowledge, skills, and habits of a group of people are transferred from one generation to the next through training or research. Education has the power to eradicate all evils from society. It is our constant endeavor to reach out to as many students as we can and provide them with the best quality education that enables them to become contributing members of society and excel in all walks of life.

OUR RECRUITERS



PLACEMENT HIGHLIGHTS 2018-19

- Total No. of offers: 286
- Total No. of selections: 233
- Total No. of Placement Opportunities offered - 91
- 26 Number of Placement opportunities offered twice in a single month – Oct 2018 & Jan 2019
- Highest Package offered: 12 Lakhs
- 15 Number of Selections in TCS
- 18 Number of Selections in WIPRO
- 03 Number of Selections in COGNIZANT
- 05 Number of Selections in DrishtiSoft
- No. of Students Placed above 10 Lacs Package: 02
- No. of Students Placed between 5 Lakhs to 10 Lakhs Package: 02
- No. of Students Placed between 3 Lakhs to 5 Lakhs Package: 123
- No. of Students Placed between 2 Lakhs to 3 Lakhs Package: 78
- No. of Students Placed 2 Lakhs package: 83
- Total No. of companies visited till date: 91