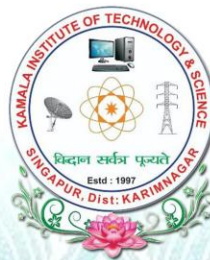# KAMALA KRANTHI

BIANNUAL NEWS LETTER　　　**JUL - DEC 2018**

KAMALA INSTITUTE OF TECHNOLOGY & SCIENCE

(Sponsored by Vodithala Education Society, Approved by AICTE, New Delhi and Affiliated to JNTU, Hyderabad)

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Principal's message:

It's invigorating to see that the institute has brought out yet another edition of the newsletter bringing forth various co- curricular and extra- curricular activities that the departments have been dedicatedly organizing for the past six months. Beginning from July till the end of December, the institute has organized many events that helped students in enhancing their knowledge. It was truly exciting to see the students and the teachers teaming up in executing such wonderful activities. I wish them all the very best. Congratulations and keep up the spirit!

Dr.Shanker Kandukuri

From the editor's desk:

I feel very proud to present glimpses of activities spanning July to December. This newsletter is a reflection of the fact that extracurricular and co-curricular activities play a key role in engineering education, as well as in providing a better understanding of what it really means to be a professional. This is something that our management, principal and staff understand and try to etch in the minds of our students. They are committed to creating the most supportive and inspiring environment for everyone to learn and grow. Everyone has been working and I hope will work towards achieving our common goals with greater determination and as a strong team. I take this opportunity to wish you all and the institute a brighter future. Good luck to you all!

Dr.Kalyani.M ,Dept of H& S.

Interesting Read: Here's something for you to read. If you already know, flip it!

The Top 10 Digital Quality Engineering Trends Of 2018

Source: https://www.forbes.com/sites/forbestechcouncil/2018/03/19

 Machine Learning (ML) and Artificial Intelligence (AI)

ML is enhancing the capability of computer systems to evolve, learn and get programmed. Institutions are leveraging it to lower dependency on human operators, especially with recurring activities. This automation has led to faster turnaround times, more effective documentation of communications and larger roles for skilled personnel.

Internet Of Things (IoT)

Engaging, interesting and inventive, IoT has been a point of experimentation for global enterprises and industries. According to the Boston Consulting Group, the IoT market is expected to reach $267 billion by 2020. Applications of IoT have been spreading across industries and will be a driving factor for growth.

Security

"What if my systems get hacked?" and "How good is my data security plan?" -- these are some probable questions you're bound to have because of cyber security threats and rising risks. In the overall digital transformation phase, security will continue to be a growing concern. Whether it is connected devices, AI, VR or AR, there will be open nodes that will need a secure interface. Security will dominate corporate decisions, high-level discussions and development strategies.

Digital Twin

Digital twin technology that allows enterprises to explore ways to convert virtual ideas into physical reality is increasingly becoming a mandate. The Gartner's report states, "With an estimated 21 billion connected sensors and endpoints by 2020, digital twins will exist for billions of things in the near future."

This involves smart components with sensors to collate data on a real-time basis and data that is contextual in nature. Quality engineering can enable the seamless functioning of sensors along with a smooth exchange of contextual data.

Blockchain

Blockchain as a concept is getting more popular by the day and its application is being explored across domains to leverage the intrinsic benefits. As Gartner states, "The technology holds the promise to change industries, and although the conversation often surrounds financial opportunities, blockchain has many potential applications in government, healthcare, content distribution, supply chain and more."

Bots

Bots can make your life easy. That's been the sentiment toward this technology. The application of bots is prevalent across sectors, including consulting and service domains. In fact, Juniper Research recently forecasted that businesses that used chatbots may save $8 billion a year by 2022 in health care and banking. The technology is also poised to break into other fields in a big way in the years ahead.

Intelligent Apps

AI is seeping into virtually everything, and applying it to enterprise applications to enhance business outcomes is a growing trend. The objective is to build applications that offer access to

an extensive amount of data and to use processing power to apply artificial intelligence and advanced machine learning to that data.

Cloud Implementation

Cloud implementation works continuously to offer connectivity, bandwidth scalability and greater functionality for the software development process in the realm of digital transformation. According to The Lawrence Berkeley National Laboratory, utilizing cloud computing could reduce IT energy consumption by as much as 87%.

Business Intelligence and Analytics

Data will play a big role in building the next-gen devices. Every interaction, transaction and strategy will run on data exchanges and will be analyzed. Analytics will bring in the business intelligence (BI) to build strategies and technologies that enterprises need for further development and growth. BI technologies will help build historical, contemporary and futuristic views for the business operations.

Mobile and Client Computing

What does mobile communication entail? It comprises mobile communication, mobile hardware and mobile software. The underlying idea is to centralize data and communication, which enhances its mobility and helps the data to flow seamlessly. Streamlining the flow of information and engaging the client systems will be an enabling factor in the digital transformation process.

EVENTS IN THE DEPARTMENT OF MECHANICAL ENGINEERING

A Two-day National Workshop was organized on **"Engineering applications of MATLAB"** on 09th and 10th Aug 2018- Guest speakers who delivered expert lectures were Sri PSS Murthy, Sri V.Sampath, V.Kishore (Dept. of Mech. Engg. –KITS, Warangal) & SD Ismail (Dept . of Mech. Engg. -NIT, Warangal).

A five- day national level internship program on **"Automobile & Vehicle Dynamics"** was arranged for students during 10th-15th Aug 2018. Sonu Chowdary from ELITEtechno group, Rajasthan delivered expert lectures during the program.

The department organized its associatio KAMS inauguration on 29-09-2018. Sri G. Swaminathan, Retired GM, BHEL, R&D, Bangalore, was the guest of honor and he addressed the gathering.

A one- day workshop on **"Unigraphics"** was arranged for 3rd &4th year students on 13-10-2018. Expert lecture was delivered by Mr.Charan from CANTERCAD, Karimnagar.

Alumni interaction was organized for students on30/08/2018 on **"Career opportunities in the area of Automobiles"** .Our alumni- Ms.Preethi (working for BENZ) (2014-18 batch) interacted with the students.

On 21/08/2018, Mr.J.Nishanth, our alumnus, addressed the students on "Guidelines for preparing ESE"

Staff achievements:

Mr.N.Ramakrishna published a research paper on "**Role of process parameters on mechanical properties of cu/sic surface composites fabricated by friction stir processing**" in National Conference on NCAMMM-2018 on Oct 2018.

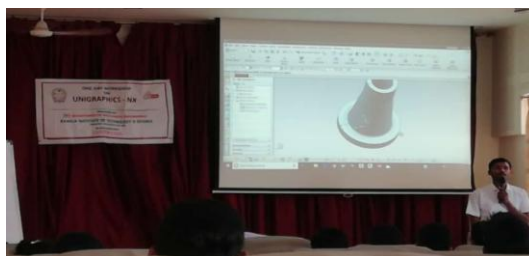Workshop on Matlab   Internship program

KAMS Inaugural   Workshop on Unigraphics

Ms.Preethi, Alumnus speaker   Mr.J.Nishanth, Alumnus speaker

EVENTS IN THE DEPARTMENT OF ECE

A two day workshop on "Mobile Making & IOT" was organized by the department of ECE & ITC-IIT Mumbai from 6th Oct -7th Oct 2018.

The department organized debate competition for students on 21-07-2018 under the KEIS banner.

The department association (KEIS) inaugural was conducted on 04-08-2018. Dr.Dhiraj Sunehra, Professor, department of ECE, JNTUH College of Engineering Jagtial graced the occasion and delivered a guest lecture by on **Radar Communications**.

As part of Engineers' Day celebrations on 15-09-2018, the department organized Technical JAM and Idea Presentation competitions under KEIS banner.

 A guest lecture on evolution of mobile communications was delivered by the department alumnus Mr.Ranjith reddy, DGM, JIO communications Bangalore on 5th November 2018.

A guest lecture under the KEIS banner was organized for the students on 25-09-2018.

 "The Importance of GATE." The speaker was Mr. Ramesh Chinthala

Training kit

Workshop on Mobile making and IoT in progress

Guest lecture by Ramesh Chinthala in progress

EVENTS IN THE DEPARTMENT OF EEE

The Inauguration of KESA- KITS Electrical Students Association took place on 21st July-2018 and a technical seminar on **Automotive Locos & Overview of Traction Systems** was organized. Mr. Khadheer Shaik, Senior Engineer, R&D Medha Servo Systems Ltd. Hyderabad was the guest speaker at this seminar.

 The department **Fresher's day** was organized by 2nd year EEE students in August 2018.

A three-day workshop on "Industrial Automation-PLC, SCADA & Drives" in collaboration with **Prolific Systems & Technologies pvt ltd**. Hyderabad was organized by the department from 5thOct-2018 to 7th Oct-2018. 120 students of IIYear, III Year & IV Year EEE participated in this workshop.

Principal addressing the participants of the workshop on Industrial Automation-PLC, SCADA & Drives

EVENTS IN THE DEPARTMENT OF CSE

A Faculty Development Program on "Firewall Installation,Configuration and Management" was organized by the department in collaboration with ICT Academy from 02/07/2018 to 06/07/2018. Faculty from various engineering colleges of this region participated in the program. Mr.S. Shanmughavel. Training Manager-South2,Training & Research, ICT Academy was the resource person.

A FDP on "Basics of Python Programming" was organized by the department from 3.12.18 to 7.12.18. Mr.M.Shiva was the resource person. Faculty of the institute and other engineering colleges participated in the event.
The department organized its association KCA Inaugural program on 18.08.2018. Mr. R.B.V Subrahmanyam from NITW was the chief guest for the program.

News report of FDP program on 02/07/2018.   Principal, Head and trainers

Participants at the FDP on 2/7/18   Principal at FDP on Basics of Python programming

Principal with participants   Principal at the program on PYTHON Basics

Mr. R.B.V Subrahmanyam the chief guest from NITW, with Principal, HoD and student at KCA Inaugural

EVENTS IN THE DEPARTMENT OF CE

Civil Engineering Department organized CEA inauguration on 24-09-2018. sri Varkala Narasimha Rao, Chief Engineer Kaleshwaram Project, was the guest of honor for the event.

A three- day workshop was organized by the department on **"Applications of Remote sensing and GIS"** from 27-09-2018 to 29-09-2018. Resource person for the workshop was Dr. K Venkat Reddy,Asst. Prof,dept. of Civil.engineering, NIT, Warangal. He delivered expert lectures and gave hands on experience during the workshop.

The department organized alumni interaction with the students on **"Development of facilities in department"** by on 04/10/2018.The 2014-2018 alumni were present for this session.

❖ **Students Achievements:**

- Final year students P. Madhulika, B. Jyothi (C) and third year student K Navya participated and won 1st prize in state level youth sports competition -2018, in the senior girls team "Volley Ball" game, held on 14th July, 2018 at Mini Stadium, Dharmakancha, Jangaon Dist. Telangana state.
- Final year student G. Praneeth (C) participated and won 1st prize in state level youth sports competition -2018, in the senior Boys team "Volley Ball" game, held on 14th July, 2018 at Mini Stadium, Dharmakancha, Jangaon Dist. Telangana state.
- Third year student Ch Ranjith participated and won 1st prize in state level youth sports competition -2018, in the senior Boys team "Basket Ball" game, held on 14th July, 2018 at Mini Stadium, Dharmakancha, Jangaon Dist. Telangana state.
- Second year student A Vigna Bharathi participated and won 1st prize in Table Tennis (Doubles) and Badminton (Doubles) NAIPUNYA-2018, district level sports meet organized by ABVP on the occasion of Engineers' Day in Karimnagar District.
- Final year student G Praneeth participated and won 1st prize in Cricket and Volley Ball at NAIPUNYA-2018, a district level sports meet organized by ABVP on the occasion of Engineers' Day in Karimnagar District.
- Third year student Ch Ranjith has participated and won 2nd prize in Basket Ball, NAIPUNYA-2018, a district level sports meet Organized by ABVP on the occasion of Engineering Day in Karimnagar.
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NCC EVENTS:

100 cadets from all 3years NCC participated in the Independence day parade at our college on 15th Aug 2018.

Sramadhan program was organized in the college campus on 15.09.18, as part of swacha pakwada. 20 cadets participated in the program and cleaned the campus, watered the plants, dug water harvesting pits, etc.

35 cadets participated in SWACHATHA HI SEVA program on 22nd Sep 2018   and cleaned and painted the boundary walls at the college campus.

39 Cadets participated / supported Police dept Manakondur, Karimnagar and PS, Huzurabad in controlling crowds on " Ganesh Nimajjan" on 23rd September 2018 as per the orders received from Commanding Officer 9(T)Bn, Karimnagar.

28 cadets participated in SWACHATHA HI SEVA program on 23rd Sep 2018 and cleaned Huzurabad bus stand.

78 cadets participated in surgical strike day, essay competation conducted on "Role of Army in Nation Building" and Havaldar Basavaraj delivered a speech on surgical strike to motivate the cadets at the college campus.

100 cadets participated in the Blood donation camp conducted at the college campus on 5th Oct 2018.

22 cadets participated in CATC-X from 9th Oct to 18th Oct 2018, at Loyola school, Rekurthy, Karimnagar.

2 cadets Mr.Rohith and Mr Vamshi Krishna Chary participated in a trekking camp held at Thirupathi from 20th Oct to 27th Oct 2018.

Rastriya Ekta Divas was organized in college campus on 31.10.18, around 100 cadets participated in a parsde and took the pledge.

16 cadets participated in a cycle rally organized by Food corporation of India under swacha bharath program to promote the cause of "save food" on 20.11.2018.

news report on blood donation camp

Cadets at Independence day parade.

Army personnel addressing the cadets

NSS EVENTS:

13 student volunteers and a faculty member presented themselves for the **Inter-District Level Swachh Pakhwada** organized by JNTU Manthani on 10-08=2018.

6 student volunteers represented the **International Youth Seminar** organized at Kanha Shanthi Vanam ,Hyd from 13th to 18th August 2018.

Our NSS coordinator received an award and **Silver Medal** from Red Cross Society, Warangal for conducting   Blood Donation Camp in collaboration with RED CROSS society at an event held at police quarters, Hanamkonda on 15-08-2018.

HARITHA HARAM, a program encouraging plantation was organized by the NSS unit at the institute premises. 70 student volunteers and 10 faculty members participated in the event.

NSS Day was celebrated on the premises on 24-09-2018 in which 100 student volunteers participated.

A **Blood Donation Camp** was organized in collaboration with RED CROSS society on 05-10-2018. 200 students and 7 faculty members voluntarily donated blood.

The institute's NSS unit collected and transferred an amount of Rs 43,000 on11-09-2018 to Chief Minister's Distress Relief Fund for the cause of **Kerala flood victims**.

NSS Coordinator at Swachha Pakhwada and receiving the award for good services.

Principal, faculty and student volunteers at NSS Day celebrations and Haritha Haram.

Other events: ABVP organized a sports fest NAIPUNYA'18 and our students bagged 1st prize in cricket, volley ball and kabaddi.

The mathematics division of H&S department organized a two-day workshop on "**Teaching methodologies in mathematics for high school teachers**" in collaboration with T.S.COST. Professor Y.N.reddy of dept of Mathematics, NIT,Warangal was the chief guest for this program. Dr. K. Maruthi Prasad, Shri Bandaru Ramesh and Shri M.S. Rangacharya were the other resource persons. Mr. Puli Ravi Kumar, member secretary T.S.COST graced the occasion.

Our students with trophies won at NAIPUNYA'18

Professor Y.N.Reddy

Principal felicitating the chief guest.

Discussion in progress.

Felicitations to Mr.Puli Ravi Kumar, Member Secretary, T.S.COST