

KAMALA KRANTI

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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: I am greatly pleased that the next issue of KAMALA KRANTHI is ready for the readers. An institute Newsletter reflects the success story of an institution and acts as a great medium to reach out to the outer world. It reflects upon the persistent and committed efforts made by the faculty, staff and students for taking the institution a step ahead. Continuing the same practice, this issue of KAMALA KRANTHI, reflects upon the commendable contribution made by all members of KITS(S) family in their fields of expertise as well as for the overall growth of the institute. I congratulate everyone for their service for the institution so far and do expect the same in times to come. I also congratulate the editorial team for bringing out the present issue of newsletter. Wish you good luck!

- Dr.Shanker Kandukuri

From the editor's desk: It is a great pleasure to present before our readers the next issue of the institute's newsletter. I feel honored for the faith reposed in me for performing the role of editor of the college Newsletter. I have put whole-hearted efforts to give a complete and kaleidoscopic view of the praiseworthy contributions the different departments of our institute have been making in improving it in every possible way. I am extremely positive that, in the further issues of KAMALA KRANTHI, the readers will be visualizing a more laudable image of the institute. I solicit constructive suggestions for the improvement of the newsletter. Your valuable comments may be mailed to the feedback provision made in the college website. Thank you all and have fun.

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

Throughout history, there have been many women who have significantly contributed to various fields of engineering, fighting against discrimination and social challenges to do so. Let's have a look at who a few are, and what they contributed to the world. Hope their stories inspire you too. Source: <https://www.workflowmax.com>. More in the next edition; read and enjoy.



Edith Clarke: She was the first woman to earn an electrical engineering degree in 1918, from the Massachusetts Institute of Technology. In 1921 she received her first patent for the Clarke Calculator - a device that was used to solve electric power transmission line issues. She went on to teach electrical engineering at the University of Texas for 10 years, making her the first female Professor of Electrical Engineering in the United States.



Emily Roebling: Roebling never planned on becoming an engineer. It's funny then that she is credited with being at the helm of one of the biggest feats of engineering for her time. She is best known for her role as Chief Engineer during the construction of the Brooklyn Bridge, completed in 1883.



Martha Coston: She quite literally blazed her way into engineering history books. Coston is credited with creating a signaling flare system, known as Coston Flares, still used by the US Navy today. She discovered a design for a pyrotechnic flare that her late husband had left behind in his notebook, and set about designing a signal flare that would work. For nearly 10 years she worked on perfecting the design, which needed to be bright, multi-colored and long-lasting if they were to be effective tools for communication. She finally achieved a patent in 1859, with the US Navy paying her \$20,000 for the rights to the flares.



Stephanie Kwolek: Chances are you've heard of Kevlar, a stiff synthetic material five times as strong as steel. Because of its resistance to corrosion and flames, it is the main element in the production of bullet-proof vests, as well as a whole range of everyday products including safety helmets, camping gear, snow skis and cables. We have Stephanie Kwolek to thank for this super-strong material, one of the first female research chemists. Aside from the discovery of Kevlar, Kwolek is also the recipient of 17 US patents for her other research efforts.

Empowering Words from Women in STEM:

“I have never let gender get in my way. It has taken me over 30 years to get from a garage to the huge campus that we have today. And it’s been a long journey.” Kiran Mazumdar-Shaw, Founder of drug company Biocon

“We need women at all levels, including the top, to change the dynamic, reshape the conversation, to make sure women’s voices are heard and heeded, not overlooked and ignored.” Sheryl Sandberg, Face book COO

“People ask me all the time: ‘What is it like to be a woman at Google?’ I’m not a woman at Google; I’m a geek at Google. And being a geek is just great. I’m a geek, I like to code, I even like to use spreadsheets when I cook.” Marissa Mayer, CEO of Yahoo, former engineer at Google

“Don't let anyone rob you of your imagination, your creativity, or your curiosity. It's your place in the world; it's your life. Go on and do all you can with it, and make it the life you want to live.” - Mae Jemison, first African American woman astronaut in space

"I was taught that the way of progress was neither swift nor easy." - Marie Curie, 'female STEM superhero,' first woman to win a Nobel Prize, the only woman in history to ever win it twice, and the only human to ever win a Nobel Prize in two different sciences.

EVENTS IN THE DEPARTMENT OF CSE

- The department organized a five-day Faculty Development Program on “programming with PL/SQL” in collaboration with TASK and ORACLE from 05-02-2018 to 09-02-2018. Mr. V.T. Lingeshwar Rao from ORACLE was the resource person. Faculty of various engineering institutions of this region attended the program.
- The department also organized a two- day national level techno –cultural fest SANKALP2K18 from 23rd Feb to 24th Feb, 2018. Many students from different engineering institutions participated in technical and cultural events organized under this banner. Mr. Rohith Chandra Ponnam , CEO of TELEKHA Networking Technologies Education graced the event and addressed the participants.

- From 14-05-2018 to 18.05-2018, a workshop on MS Office was organized for the non teaching staff of the institute. Mr.E.Pradeep and Ms. B. Arathi , faculty of the department, mentored 23 non teaching staff about skills needed to implement in the workplace.



Principal, staff and students and students releasing the poster of SANKALP 2K18



Dr. K. Ravindrababu, Head & Professor, addressing the gathering at the FDP on PL/SQL



Participants at the FDP



Nonteaching staff at MS Office workshop

EVENTS IN THE DEPARTMENT OF ME

Staff Achievements

The following staff members of the department have published research papers:

- Dr.G.Mallaiah and N.Ramakrishna published Chapter 14 titled “Influence of SIC and B4C particles on microstructure and mechanical properties of copper surface composites fabricated by friction stir processing” in the book **Mechanical engineering for sustainable development** on Jan-19 , Apple Academic Press.
- Dr.M.V.Satish Kumar and Dr.A.Komuraiah published a research paper on “In-Situ and Ex-Situ Analysis of Jute, Banana and Woven Roven Hybrid Composite Material Laminates” in International Conference on Innovations in Mechanical Engineering (ICIME) in Jan 2018.
- Dr.M.V.SatishKumar and M. Pradeep Kumar published a research paper on “Failure Criticality Analysis Using Fishikawa Diagram (A Case Study Of Dumpers at OCP, Ramagundam)” in National Conference on “Trends in Science, Engineering and Technology on 2nd Jan 2018.
- Dr.A.Komuraiah published a research paper on “Roof top gardening” in National Conference on Innovations in Civil Engineering through Sustainable Technologies (NICEST’18) on 2nd Jan, 2018.
- S. Vamshi Krishna published a research paper on “Tensile and Water Absorption Properties of FRP Composite Laminates without Voids and with Voids” in 11th International Symposium on Plasticity and Impact Mechanics, IMPLAST Science Direct in Feb, 2018.
- A.Johnson published a research paper on “Need of Intelligent Mechanized Robotic System to Clean the Garbage” in National Conference on Innovations in Civil Engineering through Sustainable Technologies (NICEST’18) in Feb 2018.
- S.Rajpal Singh and M.Pradeep Kumar published a research paper on “Design, Testing and Analysis of POP Solar Dryer” in 1st National Conference on Trends in Science, Engineering and Technology organized in Feb 2018.
- A.Johnson published a research paper on “Need of Intelligent Mechanized Robotic System to Clean the Garbage” in Journal of Emerging Technologies and Innovative Research (JETIR) in Feb 2018.
- M. Pradeep Kumar published a research paper on “Trend Analysis- A Tool to Identify The Failure & Run Mode In Public Transport Buses; Special Issue” in International Journal of Creative Research Thoughts (IJCRT) in Feb 2018.
- Dr.M.V.Satish Kumar, Md. Afzal Ali and M. Zafar Anwar published a research paper on “Design and Development of Toroidal Continuously variable Transmission Drive for Machine Tool Applications” in International Journal of Current Engineering and Scientific Research (IJCESR) in Mar-2018

- S. Vamshikrishna, M. Pradeep Kumar and K.Vikram Kumar published a research paper on “Evaluation of Properties of Hybrid Natural Short Fiber Reinforced Composites” in International Journal of Emerging Technologies in Engineering Research(IJETER) in May-2018
- S.Rajendraprasad published a research paper on “Fabrication and Characterization of Friction Stir Processed AA2014-T6/B4C Surface Nano Composites” at International Conference on Innovations in Mechanical Engineering (ICIME) in Jun 2018.
- S.Rajendraprasad published a research paper on “Effect of Rotational Speed on microstructure and micro hardness of boron carbide reinforced AA2014-T6 nano surface composites” in International Journal of Mechanical and Production Engineering Research and Development in Jun 2018.
- M.Venkatesh, A.Johnson and K.Srikanth published a research paper on “Influence of Tool Geometry of Friction Stir Weldments on Mechanical Properties and Microstructure of AA 2014-T6 Aluminum Alloy” in International Conference on Latest Innovations in Materials Engineering & Technology” (ICLIET-18) in June 2018.
- Zafar Anwar, Dr.M.V.Satish Kumar, Md.AfzalAli and R.Venumadhav published a research paper on “Experimental investigation of heat transfer rate by CuO nanofluid with twisted tape inserts” in the International Conference on Latest Innovations in Materials Engineering & Technology” (ICLIET-18) in June 2018.

Student Achievements

- Final year students B. Saikumar, V. Ajay and A. Sai Raj participated in L&T TECHgium-2018 and presented a concept on “Temper proof Technologies to Prevent Reprocessing of Medical Device” during 9th Jan to 12th Jan 2018 at Bangalore.
- Mr. T.Dilip of 4th year has presented a technical paper and won First Prize in the SANKALP 2K18 conducted on 23 & 24 Feb 2018 at KITS(S), Huzurabad, Karimnagar.
- Mr. T.Dilip and Mr. J.Nishanth of 4th year participated in the event NAVADHARA PRAVAYOGIKA under the MECHARENA 2K18, conducted at OU, Hyderabad on 9 & 10 March 2018 and won 1st and 5th Prizes.
- Mr. J.Nishanth of 4th year participated in MECH QUIZ at JNTU-CEH under CONNAISSANCE 2K18 conducted on 14 & 15 March 2018 and won 1st Prize

- Four Students of 3rd year participated in the model project expo at ACE Engineering college, Hyderabad under MECAZAYA 2K18 conducted on 16 & 17 March 2018 and won First Prize
- Mr.Md.Farhan of 4th year participated in Model Expo of FERTILIZER SPRAYING HEXA COPTER and won First Prize in SRUJANA '18 conducted by Akhila Bharatha Vidya Parishath on 30 March to 1st April 2018 at VBIT, Hyderabad.

Guest Lectures and interactions organized

Our Alumni-Entrepreneur Mr.Anil Reddy delivered a guest lecture on **“Entrepreneurship”** on 06/01/2018.

Another Alumni Entrepreneur Mr. Ramprasad spoke on **“Importance of Project work for future career”** on 6th Jan 2018 as an activity under the department association KAMS.

On 08/02/2018, the department arranged an interaction session with our Alumni -Ms. Soumika.It was arranged to provide the students awareness on **“Guide Lines for preparing for UPSC (ESE)”**.

A guest lecture was organized by the department on 17-03-2018 on **“Challenges and advances in the area of automation”**. The resource person was Shri Prabal Kumar Das from Prolifics .



Prabal kumar Das



Mr.Anil Kumar



Mr.RamPrasad



2nd year students on an Industrial tour to “Nagarjuna Dairy” on 10/02/2018.



4th year students at Kesoram cements industry, Basantnagar on 16/02/2018



2nd and 3rd year students at bus depot, Huzurabad, on 24/02/2018.



Third year students at M/s Adi Medical Devices (Supplier and manufacturer of disposable syringes) Karimnagar, on 27th Jan 2018.

EVENTS IN THE DEPARTMENT OF ECE

Staff Achievements:

Forty seven research papers were published and presented by staff members from the department in various journals and conferences.

Eight faculty members from the department attended workshops in various institutions.

Department activities: The department organized technical JAM sessions under the banner of its association KEIS on 17/02/2018.

The department also organized LOGO Designing competitions for the students on 17/02/2018 under the department association KEIS banner.

Student Achievements: Forty one students from the department participated in paper presentations and attended Conference/ Seminars/ Workshops. Twenty two of them got first prize, twelve got second in events like Paper Presentation, Quiz etc, and sports like Basket Ball, Volley Ball, Badminton organized by various institutions and universities.

The Department organized an industrial visit for the students to Doordarshan Kendra, Warangal on 28-02-2018.

EVENTS IN THE DEPARTMENT OF EEE

On 19/02/2018 a one-day workshop on ‘**A New Destiny**’ was organized for the students. Around 450 students of II year & III year took part in this one day event on spirituality & how youth should lead life. The resource persons were from the organization **World Youth Change Makers**.

A two- day workshop on “**Fabrication Practice of Solar Panels**” was organized for students in collaboration with e2e prologics Pvt.Ltd. Hyderabad from 23rd Feb-2018 to 24th Feb-2018 . 86 students of ECE & EEE attended this workshop.

A two- day workshop on “**Fabrication Practice of Solar Panels**” was organized for faculty in collaboration with e2e prologics Pvt.Ltd. Hyderabad on 04th & 05th May- 2018. 52 faculty of various departments attended this workshop.



Dr.A. Santosha Kumar delivering lecture on “Fabrication Practice of Solar Panels”

Staff achievements:

- A paper on “Photovoltaic Distributed Generation using MPPT Algorithm with battery storage” was published by G.Nagaraju, Ch. Bhasker & T.Kiran Kumar, in the Journal of Emerging Technologies and Innovative Research, ISSN No: 2349-5162, Vol.5 Issue 5, May 2018
- A paper on “Reliability Enhancement by Using SFCL in A Distribution System with Distributed Generation” was published by Thirupathi Allam, A.Abishekar Reddy, and Pallam Raju in JETIR May 2018, Volume 5, Issue 5 (ISSN-2349-5162) www.jetir.org

EVENTS IN THE DEPARTMENT OF CE

❖ Staff Achievements:

- **The following staff members of the department have attended various conference/workshops:**

Dr.K Shanker, Prof, attended the 1st international Conference on “**Innovations in Mechanical Engineering**” ICIME-2018 at Gurunanak Institute of Technology, Hyderabad from 05-01-2018 to 06-01-2018.

T Ramreddy, Asst.Prof, attended 5-day conference on “**Free and Open Source Geospatial Technologies for Teachers in Higher Education**” at NIT Warangal from 14-02-2018 to 18-02-2018.

Dr.K Shanker, ANS Prasad, P Praveen Chary, P Jagan,, G Krishna Parandhama of the department attended a 2-day conference on “**Innovations in Civil Engineering Through Sustainable Technologies**” at MGIT Hyderabad from 16-02-2018 to 17-02-2018.

Field visit: The final year students were taken on a field visit to Kaleaswaram Project on 17/02/2018.

A one- day workshop was organized by the department on “**Ground Water Investigation Using Electrical Resistivity Method**” on 16th March 2018. The resource person for the workshop was Mr.B. Srinivas, Geophysicist, ground water department, Bhupalpally.

Students at the Kaleshwaram project field visit



Demo at the workshop on “ground water investigation.”



Games and sports activities:

Our boys’ team stood second in the Volley Ball tournament, January 2018 conducted by NIT Warangal.

Our girl students secured second place in Basket Ball at the KITS trophy event in January 2018.It was conducted by KITS Warangal.

Our boys’ team won the Volley Ball tournament “Yashoyan” conducted at JITS Karimnagar in February 2018.

Our students won 8 out of 13 events in the Inter Collegiate B-Zone games tournament conducted by JNTU (Kondagattu) in March 2018.

Some pictures:



NCC EVENTS:

- 100 cadets participated in the Republic day parade organized in the college on 26th Jan 2018.
- Sports activities were organized for NCC cadets in volleyball, basket ball, chess, running, etc, on 26th Jan 2018. The principal presented certificates and medals to winners and runners up .
- A skill development program was organized for NCC cadets on 12th Jan 2018, on the occasion of Youth day. Around 100 cadets participated. Solar power generation, house wiring and LED soldering skills etc were taught by the subject experts.

- A special training session on “Weapon training and Map reading” was conducted by the Army staff for NCC cadets on 21st Jan, 2018.
- An international Yoga Day was organized on 21st June 2018 in the college premises. Around 150 NCC cadets from in and around the college participated.



National Youth day and International Yoga day photos



RD Parade

Sports for NCC Cadets





Weapon training



NSS EVENTS

- The KITS(S) NSS Unit conducted an elocution competition on **Kill Cancer** on 25th Jan 2018 on the institute premises. 60 students and 5 faculty participated in the event. On the same day, National Voter Day celebrations also took place. 900 students and 100 faculty members participated in this event.
- 13 students of the NSS unit took part in the National Youth Day celebrations organized by JNTUH on 13th February, 2018.
- 50 students and 5 faculty of the NSS unit participated in the NSS Special Camp at Ippalapally village from 5th - 11th March 2018.

National Voter's Day



Elocution competition on Kill Cancer



NSS volunteers at Ippalapally



Women's day celebrations Ms.K.Vijayalakshmi of H&S and Principal addressing the gathering

