



# Newsletter

Volume 4, Issue 2, July 2017

## Department of Electronics & Instrumentation Engineering

(Accredited by NBA, New Delhi)

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

Warangal-506 015, Telangana, INDIA (An Autonomous Institute under Kakatiya University, Warangal)

కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం వరంగల్ - ౫౦౬౦౧౫.

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**III<sup>rd</sup> Yr  
Students  
Industrial  
Visit to  
KTPS,  
Kothagudem  
in  
January  
2017.**

**Third Year students Visit to Papi Kondalu in January 2017.**

**Dr. K. Sivani, Prof. M. Sreelatha, Smt R. Nirmala Devi, Sri M. Raghuram and Dr. K. Srinivas accompanied the Students**



**A one week Faculty Development Program was organized in the Dept. on "Hands on LabVIEW & its Application in Engineering" during 4-9 May, 2017. Faculty from various colleges across the State participated. The program was Co-ordinated by Smt. R. Nirmala Devi**

### Mini Project title 2016-17

Dual Tone Multi Frequency Decoder	Laser Security Alarm System
Automatic DC Fan Controller using Thermistor	Automatic plant Irrigation System
Water Level indicator	Digital Stopwatch
Clap Switch	Automatic Street Light control using LDR and relay
Alcohol Breathalyzer	Automatic Water Level Controller
Motion Detector Circuit	Food Salt And Salinity Tester Meter Circuit
Wireless Baby Monitor	Solar Power Bank
Touch and off switch Circuit	LCD & Keyboard Interfacing with 4-BIT PIC
LPG Gas Leakage Detection	Wireless Audio Transmitter
Smart Women Security System using Arduino	Automatic Washbasin Tap Controller
Wireless Mobile Charger	Electronic Letter Box
Key Operated Gate Locking System	Fire Alarm Using 555 Timer
Tachometer using Arduino	Speed Checker to detect Rash Driving on Highways
CPU Fan Speed Controller using Arduino UNO Microcontroller	Automatic Rain Sensing Wiper
Automatic Pest Repellent	Digital Code Lock using Arduino
Bike Turning Signal Circuit	Traffic Signal System
Coaxial Cable Tester	Battery Level Indicator
Mini SONAR using Arduino	Frequency measurement using ATmega 16
Air flow detector	Digital Clock using ATMEGA-16
IC555 Inverter using Mosfet	Smart Blind stick using Ultrasonic sensors
Adaptive Light Beam using sensor	Hidden Active cell phone detector

Final year students **R. Rohini** and **M. Meghana** participated in **TWO DAY WORKSHOP** organized by Indian Institute of technology, Hyderabad on **“IOT CLOUD BOT-ICS”** during 16-17 Feb, 2017



## Faculty Publications

CH. Navitha, **K. Sivani** and K. A. Reddy, "Adaptive Rake Receiver using Dual Tree Complex Wavelet Transform for an Ultra-Wide Band System," in Proc. of IEEE International Conference on Wireless Communications, Signal Processing and Networks (WiSPNET), SSN college of Engg., Chennai, India March. 22-24, 2017. ISBN: 978-1-5090-4442-9/17.

Ch.Pavan Kumar, **Dr.K.Sivani**, "Compact Modeling of Tunnel Field Effect Transistor for Ultra-Low Power Design Applications" 5th International Conference on Advancements in Engineering and Technology (ICAET-2017), March 24-25, 2017, Punjab, India. ISBN Number: 978-81-924893-2-2

CH. Navitha, **K. Sivani** and K. A. Reddy, "Use of Dual Tree Complex Wavelet Transform for UWB system RAKE receiver," in Proc. of IEEE International Conference on Control, Instrumentation, Communications & Computational Technologies (ICCICCT), Kumar coil, India, Dec. 16-17, 2016. ISBN: 978-1-5090-5240-0/16.

Ch.Pavan Kumar, **Dr.K.Sivani**, "Modeling of Tunnel Field Effect Transistor for Ultra-Low Power Applications" Lecture Notes in Networks and Systems, Springer publications, ISSN: 2367-3370.

**M. R. Ram**, K. Sivani and K. A. Reddy, "Reduction of Motion Artifacts from Pulse oximeter's PPG signals using MSICA," in Proc. of IEEE International Conference on Control, Instrumentation, Communications & Computational Technologies (ICCICCT), Kumarcoil, India, Dec. 16-17, 2016. (DOI: 10.1109/ICCICCT.2016.7988000)

**M. R. Ram**, K. Sivani and K. A. Reddy, "Reduction of motion artifacts from pulse oximeter signals using tunable Q-factor wavelet transform technique," in Proc. of IEEE International Conference on Computer, Communications & Signal Processing (ICCCSP), SSN college of Engg., Chennai, India Jan. 10-11, 2017. (DOI:10.1109/ICCCSP.2017.7944097)

**K. V. Madhav**, E. H. Krishna, and K. A. Reddy, "Extraction of Respiratory Activity from PPG Signals using an Adaptive Fourier Coefficient Estimator," in Proc. ICCICCT-2016, NICHE, Kanyakumari, Tamilnadu, India, 16-17 Dec, 2016.

**K. V. Madhav**, E. H. Krishna, and K. A. Reddy, "Detection of Sleep Apnea from Multiparameter Monitor Signals using Empirical Mode Decomposition," in Proc. ICCCSP-2017, Chennai, Tamilnadu, India, 10-11 Jan, 2017.

**B.Jeevan**, **K. Sivani**, "A New High Speed Multiplier based on Carry Look Ahead Adder and Compressor" in Proc. of IEEE International Conference on Next Gen Electronic Technologies: Silicon to Software, VIT Chennai Campus, India, 23-25, March, 2017

**B.Jeevan**, **K. Sivani**, "FPGA Implementation of 64-bit Signed Magnitude Comparator using Verilog HDL", in Proc. of ICTPACT-2017, April 2017, ISSN: 0018-9383, April 2017

Final year students **R .Rohini** and **M.Meghana** completed their internship program at Electric LocoShed Kazipet ,Warangal in June 2017 on "CONCEPT AND WORKING OF ELECTRIC LOCOMOTIVE(WAG7)"



**GRE/ IELTS/ TOEFL scores**

S. No.	Roll No.	Name of the student	GATE Percentile / Rank	Appeared in the Year
1.	13016T0601	P. Suchitra	828	2016
2.	13016T0630	B. Jaya Chandra Raju	1327	2016
3.	13016T0638	G. Vydhik	461	2016
4.	13016T665L	K. Santhosh Kumar	2800	2016
5.	13016T0651	V. Sai Sruthi	GRE	365
6.	13016T 0604	S. Nishanth	CAT	86.75

**G. Vydhik along with his Parents receiving E Rajaratnam Gold Medal for the year 2017 on the Annual Graduation Day**



**E&I Association I Semester activity calendar**

Date	Activities
20.07.2017	Introduction to EIEA Committee Formation
27.07.2017	Express to Impress
03.08.2017	Guest Lecture on GRE-Scholarship Test- Deliverables
10.08.2017	Brain Storming
17.08.2017	A Brief study on Industries [Slide show]
24.08.2017	GATE Preparation Tips
31.08.2017	Debate and JAM
07.09.2017	Role Play

**Siva Prasad of E&I participating in face painting event of Sanskriti 17**



**Geeta Maduri and Simha performing Live Concert in the eve of Sanskriti 17**



**Final year Students of E&I participating in Cultural Dress Competition during Sanskriti 17**