



# Newsletter

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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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## Our proud alumnus Prof. V. Ramgopal Rao has taken charge as Director, IIT Delhi in April 2016.

Ramgopal Rao got his [B.Tech.degree](#) from [Kakatiya Institute of Technology and Science](#), Warangal in 1986 and his [M. Tech.](#) from [IIT Bombay](#) in 1991. He obtained his Doctorate in Nanoelectronics from [Bundeswehr University Munich](#), Germany.

Before joining IIT Delhi as the Director, Dr. Rao served as a P. K. Kelkar Chair Professor for Nanotechnology in the Department of Electrical Engineering and as the Chief Investigator for the [Centre of Excellence in Nanoelectronics](#) project at IIT Bombay.

Dr. Rao has over [400 publications](#) in the area of nano-scale devices & Nanoelectronics in refereed international journals and conference proceedings and is an inventor on [37 patents](#) and patent applications, which include 13 issued US patents. 10 of his patents are also licensed to industries for commercialization. He is a co-founder of two deep technology startups at IIT Bombay ([Nanosniff](#) & [Soilsens](#)) which are developing products of relevance to the society. Dr. Rao is a Fellow of IEEE, a Fellow of the Indian National Academy of Engineering, the Indian Academy of Sciences, the National Academy of Sciences, and the Indian National Science Academy.

Prof. Rao's work is recognized with many [awards and honors](#) in the country and abroad. He is a recipient of the [Shanti Swarup Bhatnagar Prize](#) in Engineering Sciences in 2005 and the [Infosys Prize](#) in 2013. Dr. Rao also received the [Swarnajayanti Fellowship award](#) from the Department of Science & Technology, IBM Faculty award, Best Research award from the Intel Asia Academic Forum, TechnoMentor award from the Indian Semiconductor Association, DAE-SRC Outstanding Research Investigator award, NASI-Reliance Platinum Jubilee award, [J.C.Bose National Fellowship](#), Prof. C.N.R.Rao National Nanoscience award, VASVIK Award and the Excellence in Research Award from IIT Bombay.

Prof. Rao was an Editor for the IEEE Transactions on Electron Devices during 2003-2012 for the CMOS Devices and Technology area and currently serves on the Editorial boards of other journals. He is a Distinguished Lecturer, IEEE Electron Devices Society and interacts closely with many semiconductor industries both in India and abroad.

Dr. Rao served as the Chairman, IEEE AP/ED Bombay Chapter and as a Vice-Chairman, IEEE Asia Pacific Regions/Chapters sub-committee for two terms. He was the first elected Chairman for the India section, American Nano Society during 2013-2015



**Congratulations**  
to  
**Dr. K. Sivani** madam

for taking charge as  
Head of the Department.



Sushmitha of III/IV EIE playing  
keyboard in Sanskrithi'16



**Live in Concert by**  
**Rahul nambiyar**  
**and**  
**Manasa Acharya**  
**in SANSKRITI 2016**



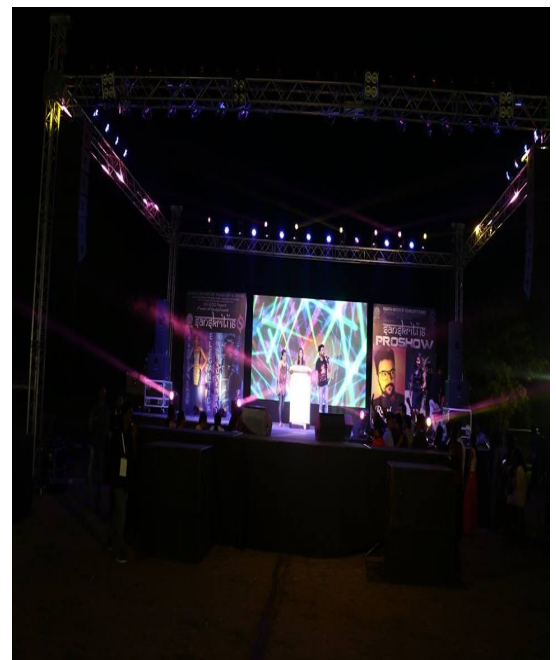
**Our Digital Electronics Lab Assistant Sri B. Krishnamurthy retired on 31.05.2016. We wish him Happy Retirement Life.**

**FACULTY VISIT TO ABROAD**



Smt. R. Nirmala Devi, Associate Professor of the department visited Bangkok to present a paper on "Adaptive MMSE Equalizer Based On CSLMS For Blind Fractional Spaced CMA Channel Equalization", in "Third International Conference on Advances in Computing, Control and Networking - ACCN 2015, during 28-29, December, 2015.

The paper was selected as best paper in the conference. Congratulations to Smt. R. Nirmala Devi madam.



## Faculty Publications

1. Ch. Pavan Kumar, **Dr. K. Sivani**, "A Tunnel Field Effect transistor is a substitute for ultra low power applications" International Conference on Advances in Human Machine Interaction (IEEE HMI 2016), March 3-5, 2016 ISBN Number : 978-1-4673-8810-8.
2. Ch.Pavan Kumar, **Dr. K. Sivani**, "Analyzing the impact of TFETs for ultra low power design applications." International Conference on Electrical, Electronics, and Optimization Techniques (IEEE-ICEEOT), March 3-5, 2016 ISBN Number: 978-1-4673-9939-5.
3. **Sreelatha Maganti**, Korrai Deergha Rao and Tipparti Anilkumar, "Performance Analysis of Filter Bank Based M-estimators for Interference Suppression in Speech Signals" in *Proceedings of 2016 IEEE Information Technology, Networking, Electronic and Automation Control Conference (ITNEC 2016)*, Chongqing, China, 20-22 May 2016, pp. 251-255 ( **978-1-4673-9194-8/1**)
4. K. Kishan Rao, **R. Nirmala Devi**, "Adaptive MMSE Equalizer Based On CSLMS For Blind Fractional Spaced CMA Channel Equalization, "Third International Conference on Advances in Computing, Control and Networking - ACCN 2015, Bangkok, Thailand, 28-29, December, 2015, pp 56-60. DOI: 10.15224/978-1-63248-082-8-11
5. **O. Anjaneyulu**, Veena A, Shraavan C.H, Reddy C.V.K., "Self Driven Pass-Transistor based Low-Power Pulse Triggered Flip-Flop Design: in IEEE - 2015 International Conference on Signal Processing and Communication Engineering Systems (SPACES), KL University, Guntur. (DOI: [10.1109/SPACES.2015.7058266](https://doi.org/10.1109/SPACES.2015.7058266))
6. **O. Anjaneyulu**, C.V. Krishna Reddy, "A Novel Approach for Design and Implementation of Sequential Multiplier, International Conference on Challenges and Emerging Trends in Management & Technology (ICCEMT-15) ICCEMT-15, NNRG, Hyderabad
7. **O. Anjaneyulu**, C.V. Krishna Reddy," Design of Digital CMOS Comparator using a Parallel Prefix Tree Structure using FPGA, National Conference on Innovations and Design Challenges in Electrical and Medical Electronics (IDCEME'15), GRIET, Hyderabad
8. M. R. Ram, **K. Sivani** and K. A. Reddy, "Utilization of Adaptive-coefficient Estimation Method for Motion Artifacts Reduction from Photoplethysmographic Signals," in Proc. of IEEE International Conference on Wireless Communications Signal Processing and Networking (WiSPNET), Chennai, India, 23-25, March, 2016. (DOI: 10.1109/WiSPNET.2016.7566247)
9. M. R. Ram, **K. Sivani** and K. A. Reddy, "Use of Complex EMD generated Noise Reference for Adaptive reduction of Motion Artifacts from PPG Signals," in *Proc. of International Conference on Electrical, Electronics & Optimization Techniques (ICEEOT 2016)*, DMI college of Engineering, Chennai, India, 3-5 March, 2016. (DOI: 10.1109/ICEEOT.2016.7755001)
10. M. R. Ram, **K. Sivani** and K. A. Reddy, "SSA based adaptive filter for detection and reduction of motion artifacts from pulse oximeter data," in *Proc. of International Conference on Electronics and Communication System (ICECS 2016)*, Karpagam college of Engineering, Coimbatore, India, 25-26 Feb., 2016
11. **K. V. Madhav**, E. H. Krishna, and K. A. Reddy, "Extraction of Respiratory Activity from Pulse Oximeter Signals using Tunable Q-factor Wavelet Transform, *International Conference on Electronics and Communication Systems, ICECS – 2016*, Coimbatore, Tamilnadu
12. **K. V. Madhav**, E. H. Krishna, and K. A. Reddy," Extraction of Surrogate Respiratory Activity from Pulse Oximeter Signals using SSA, *International Conference on Electrical, Electronics & Optimization Techniques ICEEOT – 2016*, Chennai, Tamilnadu
13. **K. V. Madhav**, E. H. Krishna, and K. A. Reddy, "Extraction of Respiratory Activity from Pulse Oximeter's PPG signals using MSICA", *International Conference on Wireless Communications, Signal Processing and Networking WiSPNET - 2016*, Chennai, Tamilnadu DOI: 10.1109/WiSPNET.2016.7566248.
14. B. Krishna Sundeep, B. Venumaheshwar "Intelligent power management system using cloud computing" IDCEME -15, GRIET- Hyderabad
15. **O. Anjaneyulu**, C.V. Krishna Reddy, "A Novel Approach for Design and Implementation of Sequential Multipliers", International Journal of Core Engineering & Management (IJCEM), ISSN: 2348 - 9510, Volume 1, December, 2015, p.p. No.1-8.

**List of students placed on campus in the academic year 2015-16**

S. No.	Name of the Student	Roll Number	Name of the Company
1.	K. Nandana	12016T0618	TCS Pvt. Ltd
2.	K. Vishalini	12016T0608	TCS Pvt. Ltd
3.	R. Nidhusha	12016T0610	TCS Pvt. Ltd
4.	J. Sravan Kumar	12016T0624	TCS Pvt. Ltd
5.	Ch. Lahari	12016T0628	TCS Pvt. Ltd
6.	K. Srinivas	13016T0662L	TCS Pvt. Ltd
7.	R. Samirchandra	1206T0640	Global Edge Technologies Pvt. Ltd
8.	M. Ranganath	12016T0632	Valuelabs Pvt. Ltd



**List of students placed off campus in the academic year 2015-16**

S. No.	Name of the Student	Roll Number	Name of the Company
1.	M. Ranganath	12016T0632	TCS Pvt. Ltd
2.	M.V. Komal Sai	12016T0602	Arobhindo Pharma Pvt. Ltd



**E&I Association Calendar for I Semester**

Date	Activities
21.07.2016	Introduction to EIEA Committee Formation
18.08.2016	Express to Impress
15.09.2016	Guest Lecture on GRE-Scholarship Test- Deliverables
22.09.2016	Brain Storming
29.09.2016	A Brief study on Industries [Slide show]
13.10.2016	GATE Preparation Tips
20.10.2016	Debate and JAM
27.10.2016	Role Play