



# ECE HERALD

NEWSLETTER...



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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## Message by Academic Director



I am glad that the Department of ECE is progressing well on all fronts with the concerted efforts from the faculty and students. This shall continue and the department shall scale greater heights. This news letter showcases all those positive vibrations. Congratulations!

**Prof. A. Sessa Rao**

## Message by Principal

It bodes well for the institute that the Department of ECE is going great strides in all activities. The final goal of any institution is to equip the students with the right kind of skill set so that they can fare well in future for the benefit of the society. The Department is leaving no stone unturned in their pursuit of academic excellence which is manifested in this issue of the news letter. With best wishes



**Dr. J. Sudhakar**

## Message by Head of the Department



The Department of ECE has recorded consistent improvement in its academic and placement performance. I congratulate the team of faculty members and the students for their brilliant and original efforts in registering all round growth in academic and extra-curricular activities. I wish all the Students and Faculty a great success.

**Mr. Ch. Ramesh Babu**

## Vission

To emerge as a center of excellence in the field of Electronics & Communication Engineering to produce competent women engineers with ethical values

## Mission

- M1** : To train the globally employable engineers through effective teaching learning process, industry ready skills and value added courses.
- M2** : To promote highr education and research initiatives through continuous industry interaction and special skill development programs.
- M2** : To promote ethical values, personality and leadership skills through extra and co-curricular activities.

## Editorial Board

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## Guest lecture on Manifest your Dreams on 16<sup>th</sup> Aug 2017

**Presenter: Ms. Maneesha Mishra, Senior System Engineer, Infosys Ltd.**

This lecture helped the learners to challenge habitual thinking patterns and replace them with more positive behaviors. How learners should develop self-motivation skills, become focused on achieving self-set goals and become more confident in their ability to succeed are the key components of the lecture. Creating a vision board can be a powerful way of tapping into your deepest desires, visualizing your dreams, and bringing them to the forefront of your consciousness. This program is organized under IETE VIEW Student Chapter.

## Guest Lecture on IT Trends &

Career Development on 16<sup>th</sup> Sep 2017



**Mr. KRISHNA GOMPA**, Senior Director- WIZNI solutions, enlightened and guided the students in various career aspects where the students can aspire and initiate their career. He shared his experience in the area of Information Technology (IT) and inspired the students to pursue career in the field of IT. He shared his ideas on various emerging technologies in IT industries. He made the students to understand about Transformation of Analog world to digital world. Students were encouraged to identify their area of interest like Big Data, Cloud Computing, Network Security etc. and focus on those technologies to get the job in various sectors. Throughout this lecture, students gained a better understanding of trends in technologies and opportunities for future career growth. They also gained the knowledge of different techniques and models applied for developing new application or products. He also emphasized on how educational opportunities are more accessible by organizing, systematizing and making it available.



**Guest Lecture on Instructional Design and Delivery Systems from 13<sup>th</sup> November 2017 to 18<sup>th</sup> November 2017.**

**Dr. Rajendiran, NITTRC** presented a lecture on **Instructional Design and Delivery Systems** from 13<sup>th</sup> November 2017 to 18<sup>th</sup> November 2017. The lecture was attended by 30 participants of Electronics and Communication Engineering Department. The session was quite interactive and the faculties were involved in designing activities. Dr. Rajendiran focused on the essentiality of adopting new teaching methods and why facilitators must spend time and effort in developing activities that mirror the learning cycle: exploration, concept formation, and application.

The importance of Using Open Education Resources and how it benefits the society at large was discussed. He further stressed that OER courses make it easier for teachers to create their online course and anywhere, and everywhere in the world so that teachers can reuse others' course material, adapt it to their own audience and unite different open resources. The session also highlighted on changing the way teachers present information, developing models for student inquiry and writing questions that build on students' prior knowledge and then lead students to make inferences in the construction of their own mental representations of principles and concepts.

**Guest Lecture on Career Simplified on 25<sup>th</sup> Nov 2017**

**Presenter :** Mr. Ranjeet Kumar Sah, Director of VIZAG Gate Forum, Sparks Defense Academy, Visakhapatnam.



The department of Electronics and Communication Engineering organized a Guest Lecture on **“Career Simplified”** by Mr. Ranjit Kumar Sah, GATE FORUM on 25.11.2017 for final year ECE students. The objective of this guest lecture is to create awareness among the outgoing students on the steps for success in job opportunities after higher education. The session started with the key points for preparation to a successful interview and practice. In this session guidance was provided for facing Group Discussion during the process of recruitment. The students have shown their interest regarding the common interview questions and positive and negative point in G.D. In the end a mock interview was conducted for the students for better understanding of the dynamics of interview. The presenter enlightened the students on various study and job opportunities after higher education. He educated the students about the need to move towards entrepreneurship and self employment. The lecture sessions were very informative and highly interactive.

## Workshop on “Embedded Systems Fundamentals” on 11<sup>th</sup> to 16<sup>th</sup> Dec 2017

A Workshop on ‘Embedded systems Fundamentals’ organized by **IETE VIEW STUDENT CHAPTER**. The prime focus of this workshop is to bridge the gap between Industry and academia in making students actively participate in real time functioning of hardwares using Arduino & Raspberry Pi. All the students qualified in the course conducted by Coursera under **Mr. K. Naga Raju & Mr. P. Mahindar of APSSDC**. Students can learn basic design of real time operations and also identify the unique characteristics of real time operating systems. Students have gained the knowledge on firmware design approaches and languages. They can apply the debugging tools and testing design in embedded systems by exploring the development of embedded system with specific tools. They could understand the integrated development environment associated with embedded systems in its full functionality.



### Workshop Attended

- **Dr. J. Sudhakar** attended a workshop on “IUCEE-IIEECP”, organized by AP State Skill Development Corporation, from July 2017.

### Certification courses

- **Mrs. T. Sandhya Kumari** completed an NPTEL Online Certification course on “Analog Communication” from July-Oct 2017.

### Book Chapter Publications

- **Dr. J. Sudhakar** publish a book on “New Era of FPGAs: Availability of Field Programmable Gate Arrays on Cloud” in Electronics and Electrical Engineering New Findings, Meta Research Press, ISBN No: 978-93-87388-14-7, July-2017.

### Awards

- **Dr. J. Sudhakar** received **Sastra Award** from VIEW on September 2017
- **Mrs. T. Sandhya Kumari** received **VisistaSeva Award** from VIEW on September 2017
- **Mrs. D. Vijaya Lakshmi** received **Pratibha Award** from VIEW on September 2017
- **Mrs. Ch. Anitha Bhavani** received **Pratibha Award** from VIEW on September 2017

### FDP's Attended

- ❖ **Ms. D. Srikanya** attended a Faculty Development Programme on “Quality Initiatives in Technical & Higher Educational Institutions (in compliance with NBA & NAAC Accreditation)” organized by Engineering Staff College of India, from 6/10/2017 to 8/10/2017.
- ❖ **Mr. B. Srinivasa Rao** attended a Faculty Development Programme on “Quality Initiatives in Technical & Higher Educational Institutions (in compliance with NBA & NAAC Accreditation)” organized by Engineering Staff College of India, from 6/10/2017 to 8/10/2017.
- ❖ **Mr. A. Suresh** attended a Faculty Development Programme on “Quality Initiatives in Technical & Higher Educational Institutions (in compliance with NBA & NAAC Accreditation)” organized by Engineering Staff College of India, from 6/10/2017 to 8/10/2017.
- ❖ **Mr. P. Gopi Krishna** attended a Faculty Development Programme on “Quality Initiatives in Technical & Higher Educational Institutions (in compliance with NBA & NAAC Accreditation)”, organized by Engineering Staff College of India, from 06/10/2017 to 08/10/2017.
- ❖ **Mr. N. V. Chaitanya** attended a Faculty Development Programme on “Advanced Antennas Design” organized by Electronics & ICT Academy, National Institute of Technology, Warangal from 9/10/2017 to 14/10/2017
- ❖ **Mr. K. Sridhar** attended a Faculty Development Programme on “Advanced Antennas Design” organized by Electronics & ICT Academy, National Institute of Technology, Warangal from 9/10/2017 to 14/10/2017.
- ❖ **Mrs. T. Sandhya Kumari** attended a Faculty Development Programme on “Entrepreneurship Development” organized by National Institute for Micro, Small and Medium Enterprises, Hyderabad from 23/10/2017 to 04/11/2017
- ❖ **Mr. B. Sashikanth** attended a Faculty Development Programme on “Entrepreneurship Development” organized by National Institute for Micro, Small and Medium Enterprises, Hyderabad from 23/10/2017 to 04/11/2017
- ❖ **Prof. V. S. V. Rangadas** attended a Faculty Development Programme on “Entrepreneurship Development” organized by National Institute for Micro, Small and Medium Enterprises, Hyderabad from 23/10/2017 to 04/11/2017
- ❖ **Dr. J. Sudhakar** attended a Faculty Development Programme on “Instructional Design and Delivery Systems” organized by National Institute of Technical Teachers training & Research, Chennai from 13/11/2017 to 18/11/2017
- ❖ **Mr. Ch. Ramesh Babu** attended a Faculty Development Programme on “Instructional Design and Delivery Systems” organized by National Institute of Technical Teachers training & Research, Chennai from 13/11/2017 to 18/11/2017

- ❖ **Mr.K.Sunil Kumar** attended a Faculty Development Programme on “**Instructional Design and Delivery Systems**” organized by National Institute of Technical Teachers training & Research, Chennai from 13/11/2017 to 18/11/2017
- ❖ **Mr.G.Lakshmana** attended a Faculty Development Programme on “**Instructional Design and Delivery Systems**” organized by National Institute of Technical Teachers training & Research, Chennai from 13/11/2017 to 18/11/2017
- ❖ **Ms.K.Sushma** attended a Faculty Development Programme on “**Instructional Design and Delivery Systems**” organized by National Institute of Technical Teachers training & Research, Chennai from 13/11/2017 to 18/11/2017
- ❖ **Mrs. Dhanya M. Ravi** attended a Faculty Development Programme on “**Instructional Design and Delivery Systems**” organized by National Institute of Technical Teachers training & Research, Chennai from 13/11/2017 to 18/11/2017
- ❖ **Ms. K. Lakshmi** attended a Faculty Development Programme on “**Instructional Design and Delivery Systems**” organized by National Institute of Technical Teachers training & Research, Chennai from 13/11/2017 to 18/11/2017
- ❖ **Mr. N. Venkata Chaitanya** attended a Faculty Development Programme on “**Instructional Design and Delivery Systems**” organized by National Institute of Technical Teachers training & Research, Chennai from 13/11/2017 to 18/11/2017
- ❖ **Mrs. Y. Alekhya** attended a Faculty Development Programme on “**Instructional Design and Delivery Systems**” organized by National Institute of Technical Teachers training & Research, Chennai from 13/11/2017 to 18/11/2017
- ❖ **Mr. Shaik Peer Ahamed** attended a Faculty Development Programme on “**Instructional Design and Delivery Systems**” organized by National Institute of Technical Teachers training & Research, Chennai from 13/11/2017 to 18/11/2017
- ❖ **Mrs. T. Uma Maheswari** attended a Faculty Development Programme on “**Instructional Design and Delivery Systems**” organized by National Institute of Technical Teachers training & Research, Chennai from 13/11/2017 to 18/11/2017
- ❖ **Mr. S. Tarun Prasad** attended a Faculty Development Programme on “**Instructional Design and Delivery Systems**” organized by National Institute of Technical Teachers training & Research, Chennai from 13/11/2017 to 18/11/2017
- ❖ **Mrs. B. Manjula** attended a Faculty Development Programme on “**Instructional Design and Delivery Systems**” organized by National Institute of Technical Teachers training & Research, Chennai from 13/11/2017 to 18/11/2017
- ❖ **Mr. K. Rajendra Prasad** attended a Faculty Development Programme on “**Instructional Design and Delivery Systems**” organized by National Institute of Technical Teachers training & Research, Chennai from 13/11/2017 to 18/11/2017
- ❖ **Mr. K. Sridhar** attended a Faculty Development Programme on “**Instructional Design and Delivery Systems**” organized by National Institute of Technical Teachers training & Research, Chennai from 13/11/2017 to 18/11/2017

#### List of conferences

- **Mr. P. Sudhakar**, published a paper on “**Adaptive Residual Unscented Particle Filter in Target Tracking**”, in Research on Smart Technologies in Data Science and Communications Advanced Science and Technology Letters, Vol.147 PP.305-311, November, 2017.
- **Dr. J. Sudhakar, Y. Alekhya**, published a paper on “**An SRAM Design with improved cell stability based on aspect ratio adjustments**”, International conference on Advanced communication systems, October, 2017.

#### List of Journals

- **Mrs. T. Sandhya Kumari**, published a paper on “**MRI-PET Image fusion using tuned coefficients**”, International Journal of Pure and Applied Mathematics, ISSN:1311-8080 Volume 114 No.10, August-2017
- Mr. P. Sudhakar**, published a paper on “**Adaptive Residual Unscented Particle Filter in Target Tracking**”, International Journal of Engineering Technology, ISSN :0747-9964 Volume 6, Issue 2, July- 2017.
- Dr. J. Sudhakar, Y. Alekhya**, published a paper on “**Design Analysis of SRAM Cell with Improved Noise Margin based on Aspect Ratio Adjustments**”, Helix, The Scientific Explorer, Helix Vol. 8(1): 2645- 2650, December-2017.
- Mrs. T. Sandhya Kumari**, published a paper on “**Enhanced Image Fusion using Quaternion Wavelet Transform**”, International Journal of Scientific Engineering and Technology Research, ISSN: 2319-8885, Volume No.06, Issue No.31, October-2017.

#### Workshop Attended

- **Dr. J. Sudhakar** attended a workshop on “**IUCEE-IIIECP**”, organized by AP State Skill Development Corporation, from July 2017.
- **Mr. K. Rajendra Prasad** attended a workshop on “**Learning Management Systems and Ed-Tech Tools**”, organized by Jawaharlal Nehru Technological University, Kakinada, from 22/12/2017 to 23/12/2017.
- **Dr. J. Sudhakar** attended a workshop on “**Various Best practices and outcome based Education**”, organized by KLE University, Hubballi, on 17/11/2017
- **Dr. J. Sudhakar** attended a workshop on “**VLSI And Embedded System Design**” organized by Indian Institute of Technology Bhubaneswar, Odisha, from 13/10/2017 to 15/10/2017.
- **Dr. Ch. Ramesh Babu** attended a workshop on “**VLSI And Embedded System Design**” organized by Indian Institute of Technology Bhubaneswar, Odisha, from 13/10/2017 to 15/10/2017.



# VIGNAN'S

## INSTITUTE OF ENGINEERING FOR WOMEN

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