

## Contents

Editorial	1
Placements	1
Guest Lectures	1
Parents meet	3
Workshops	4
Publications:	5
Student Publications:	6
Faculty Achievements	6
Student Achievements	7

### Editorial Message

Dear readers, this newsletter covering the period from January 2015 to March 2015 offers a view of the academic, professional, research and center for extension activities of the Department.

As part of the Research Group activities, The Embedded Systems and Sensor Networks research group two day Workshop on "Embedded Software Development Concepts" during 13th and 14th of February 2015, in association with CSI-Koneru Chapter and IETE-KLUSB and a one day workshop organized by Image & Speech Processing Research Group on 11th March 2015.

The NSS unit organized one day workshop on basic electronic elements at Don Bosco School, Mangalagiri on 20th March, 2015.

Renowned companies like GLEEN WOOD, KNOAH SOLUTIONS, NISUM, PHONIEXSEA, WEST LINE SHIPPING, MIRACLE SOFT, ALL SEC, KOCHAR INFOTECH conducted recruitment drive in the campus and Selected many students to onboard this year.

The editorial team would like to thank all its patrons for their support of the newsletter. We welcome suggestions from all our readers who wish to seek their ideas incorporated in the subsequent issues

### PLACEMENTS:

Company Name	No. of Students Placed
GLEEN WOOD	1
KNOAH SOLUTIONS	3
NISUM	2
PHONIEXSEA	2
WEST LINE SHIPPING	4
MIRACLE SOFT	7
ALL SEC	8
KOCHAR INFOTECH	13

### GUEST LECTURES:

DEPARTMENT OF ELECTRONICS AND COMPUTER ENGINEERING REPORT ON GUEST LECTURE

The Dept. of ECM conducted a guest lecture on Wireless Sensor Network based health care system

on 20-02-15 at C-121 from 11:30 to 1:130. For III/IV B.Tech (ECM), and M.Tech (ES & WCSN) students.

The resource person is Dr. Siba K Udgata, Professor in the School of Computer and Information Sciences, University of Hyderabad, India. He is also presently working at Centre for Modelling, Simulation and Design (CMSD) as Director.

The resource person discussed the use of wireless sensor nodes in different domains and in particular in Health Care Management System. He discussed two important aspects of health care (1) Monitoring



Dr. Siba K Udgata giving the lecture on Wireless Sensor Networks

of Water Quality to Ensure Safe Drinking Water and (2) Monitoring of Critical Human Health Parameters, through a Wireless Sensor Network Zone. The guest lecture concluded with a discussion of some implementations and experiences of the experimentations which gave the students and faculty an insight in the design and implementation of Wireless sensor networks in different domains. ❖

**Guest lecture with Industry and Academic Expert on “Modeling challenges in state-of-art VLSI devices: FinFETs and Multi-gate devices”**

The DEPARTMENT OF ELECTRONICS AND COMPUTER ENGINEERING (ECM) K.L.University, Vaddeswaram organized an expert lecture cum interactive secession on “Modeling challenges in state-of-art VLSI devices: FinFETs and Multi-gate devices” on 25-02-15. Three hundred students from UG and PG courses of ECM/ECE/EEE departments participated in the secession.



Dr. Dr. Srivatsava Jandhyala giving Key Note talk on the event.

System Technologies (CVEST), IIIT, Hyderabad. He emphasized the importance of the FinFETS and Multi gate devices their advantages and challenges in the Modeling of high performance device with less than 22nm technology. The need for new generation Architectures with more miniaturization, power optimization and speed enhancement to meet the feature electronic industry demands are discussed in detail. Further the students are made ware of different tools used in the industry used for modeling of these architectures. He also focused on the different job opportunities and advanced research areas in the VLSI domain in near future and need for the Industry and Institute interaction in making effective future Design Engineers for Electronic Industry. Dr. M.Suman HOD, ECM department, Dr. K.Sreenivasa Ravi Professor and other faculty of the ECM/ECE departments participated in the Guest Lecture. ❖



Dr. Srivatsava Jandhyala addressing the Students and Faculty



The resource person Dr. Srivatsava Jandhyala, worked as “ASIC Physical Design Engineer “ in semiconductor companies such as Broadcom, Freescale and Intel and presently working at Centre for VLSI and Embedded

**REPORT ON ONE DAY INDUSTRIAL VISIT**

Date: 03-03-2015

II/IV B.Tech Students of ECM department along with two faculty members ( Mr. Abdul Ahad and Mr. T.Ravi ) and one programmer ( Ms. MSN Lakshmi ) went to DR.NTTTPS as a part of industrial visit on 02-03-15.

Dr.NTTTPS In charge of production -Mr.Srinivas guided the students on various activities held at the Thermal Power Station. Students were given a brief idea on the technical aspects of power generation and the working of various machineries. They collected information on the social aspects of the project, viz capacity of Nagarjuna dam, units of power generated, its supply and distribution, increase in agricultural production due to canal irrigation and flood protection. The students learned about the management of Hydel





Students visit to Dr.NTTTPS power generation under varying availability of tank water and varying demand. ❖

**SOLATY**

III/IV-B-Tech students of ECM Department exhibited their mini project work –“SOLATY” in SAMYAK-2015.

The Students converted a electric scooty that runs on electrical power in to a SOLATY which runs on solar power. Solar energy is converted in to Electrical energy to make the scooty run. The maximum voltage is 48 volts. They used solar panel having voltage range 38volts. The battery is fully charged with 3 hours.

**కేవలయూలో సోలార్ స్కూటర్ తయారీ**

సోలార్ స్కూటర్ను తయారు చేసిన విద్యార్థులతో విభాగాధిపతి ఎం.సుమన్

కాడేపల్లి రూరల్ : పద్దేళ్ల కేవలయూలో లక్ష్యవ్యవస్థ విశ్వవిద్యాలయంలో ఎలక్ట్రానిక్స్ అండ్ కంప్యూటర్స్ ఇంజనీరింగ్ విద్యార్థులు సోలార్ పవర్ పనిచేసే సోలార్ స్కూటర్ (సోలార్ స్కూటర్) ను తయారుచేశారు. ఈ సోలార్ ఒకసారి బ్యాటరీ ఛార్జింగ్ చేయడం ద్వారా ఇద్దరు వ్యక్తులను 50 కిలోమీటర్లు దూరం 40 నుంచి 50 కిలోమీటర్లు వేగంతో తీసుకు పుండని విభాగాధిపతి ఎం.సుమన్ తెలిపారు. ఈసారి మూడో సంవత్సరం చదువుతున్న కె.భానుకార్తీక్, ఆర్.మనోజ్, ఎం.వి.నాయక్, ఎ.వెంకటచరణ్, కె.అశోక్ కుమార్, ఎ.సుధీర్ కుమార్లు ఆసోసియేట్ ప్రొఫెసర్ టి.దేవి సహకారంతో ఈ వాహనాన్ని తయారుచేశారు తెలిపారు. ఈ వాహనం దొంగతనానికి గురయకుండా కాపాడే డెప్లీ ఫీచర్, ప్రయాణం డైరెక్ట్, వాహనం ఎంతదూరం ప్రయాణించింది తెలుసుకునే ఫీచర్స్ ఉన్నాయని తెలిపారు. సోలార్ స్కూటర్ తయారు చేసిన విద్యార్థులను పద్మిణి ప్రెసిడెంట్ కోనేరు సత్యనారాయణ, వైస్ ప్రెసిడెంట్ కోనేరు రాజాచారిన్, ఉపకులపతి డాక్టర్ ఎల్.ఎస్.ఎస్. రెడ్డి, డాక్టర్ ప్రసాద్ తదితరులు పాల్గొన్నారు.

Students exhibiting the SOLATY in SAMYAK 2015

**A REPORT ON PARENTS MEET**

Date:07<sup>th</sup> March 2015; Time: 2:30P.M; Venue:C121

The parents meet for the academic year 2014-2015 –Second Semester was held at C121, on 07th March 2015 from 2:30 P.M to 5.00 pm. There were parents of 40 students who attended the meeting.



Dr.M.Suman, HOD-ECM addressing the Parents Meet

The meeting started at 2:30 pm with the welcome address by Dr.M.Suman, Head-Department of Electronics & Computer Engineering. He briefed the gathering on the achievements of the department and placement activities. He informed that objective of this parents meeting is to pave the way for the University authorities to have a cordial relationship with the parents where teachers and parents come together to discuss student’s academic performance and try to resolve their grievances.

Dr.A.Ananda Kumar, Principal, K L College of Engineering highlighted the counseling procedure being implemented in the University. He informed the parents that the university had taken initiative to make the parents come to know about their ward through the counselor phone call along with a letter from the university stating the Student’s academic performance every month.



Dr.A.Ananda Kumar, Principal addressing the Parents meet.



Principal highlighted the responsibilities of the counselor which include

- ✓ Meeting the students twice in a Month for solving their grievances.
- ✓ Making phone call to the parents to intimate student's attendance and academic performance Regularly.

There was an active participation of parents gathered at the Jasmine hall. Parents participated by asking questions and giving a set of suggestions.



Glimpses of Parents Meet



Faculty resolving the grievances of parents.

**Following are the questions raised by the parents:**

1. Parents are receiving SMS regarding their wards attendance but not receiving letters.
2. What are the chances of placement for yet to be placed students.

**Following are the suggestions given by the parents:**

1. Extending buses up to Gannavaram when extra classes are conducted up to 7:00 P.M.
2. Providing Information on Text Books and Reference Books for each course. ❖

### IMAGE & SPEECH PROCESSING RESEARCH GROUP A Report on A National Workshop on Speaker Emotion Recognition using MATLAB

The Image & Speech Processing Research Group, Department of Electronics & Computer Engineering

conducted a National Workshop on Speaker Emotion Recognition using MATLAB on 11 March 2015. Dr. Anil Kumar Vuppala, Assistant Professor, IIIT Hyderabad was the keynote speaker. His research interests lie primarily in speech signal processing and its applications. He has published 1 springer brief, 1 springer book Chapter, 11 reputed journals including IEEE, Springer and Elsevier, and 21 international conference papers. There were around 25 people who came from other colleges and there was a total strength of 90 members participated in the workshop.



Dr. Anil Kumar Vuppala ,IIIT Hyderabad

**Session 1:** The session continued with the introduction of the theme of the workshop by Dr. Anil Kumar Vuppala. He in detail explained the trends in Speech processing in present day world and the advantages of the Speech Processing techniques. He explained the scope of the speech processing techniques.

**Session 2:** He then continued with various techniques used in speech processing. He explained all the speech processing techniques in detail. He mainly concentrated on the emotion recognition of the speaker.

**Session 3:** After a small Break hands on training was given to the students using MATLAB and then a small introduction to the Emotion recognition from Videos was given and a demo was given on that by the speaker Dr. Anil Kumar Vuppala.



Certificate Distribution and Thanks Giving.



**Session 4:** There was an interactive session conducted which was mainly concentrated on the problems that were face during speaker emotion recognition using speech and also from videos. The session ended with the distribution of the certificates. ❖

**NSS ACTIVITY REPORT**

**WORKSHOP ON BASIC CIRCUITS AND ELEMENTS**

The NSS unit of K L University,department of ECM had organized one day workshop on basic electronic elements at Don Bosco school,Mangalagiri on 20th march,2015.

NSS team of 52 students along with two faculty Mr.T.Ravi and Dr. D. B. K. Kamesh headed by ECM-HOD Dr. M. Suman and alternate HOD Smt. T. Anu radha had participated in the workshop.

The activity was started by the addressing speech of Head Master highlighting the importance of the workshop.



Students demonstrating the basics of circuits and elements.

The team was overwhelmed to clarify the doubts raised by the students as it showed the keen interested they have on the topic.

**కేఎల్ యూ ఆధ్వర్యంలో ఎన్ఎస్ఎస్ శిబిరం**

**గ్రామీణ మంగళగిరి, న్యూస్టుడే:** కోనేరు లక్ష్యయ్య విశ్వవిద్యాలయం ఎన్ఎస్ఎస్ యూనిట్ ఆధ్వర్యంలో శుక్రవారం ఈసీఎం విభాగం విద్యార్థులు మంగళగిరి డాన్ బాస్కో పాఠశాలలో ప్రాజెక్టు 'ఎక్స్పో'ను నిర్వహించారు. కేఎల్ యూ ఆచార్యులు వివిధ ఎలక్ట్రానిక్ పరికరాలు, వాటి ప్రాధాన్యం వివరించారు. ఈ సందర్భంగా విద్యార్థుల సందేహాలను నివృత్తి చేశారు. ఈ ప్రదర్శన తమ విద్యార్థులకు ఎంతో ఉపయోగకరంగా ఉందని డాన్ బాస్కో పాఠశాల ఉపాధ్యాయులు తెలిపారు. ఈ కార్యక్రమంలో కేఎల్ యూ ఈసీఎం విభాగాధిపతి సుమన్, కామేశ్, రవి, దేవరాజ్ పాల్గొన్నారు.

Eenadu Paper Clip

**GUEST LECTURE ON MODERN TRENDS IN BROADCASTING**

A guest lecture on Modern Trends in Broadcasting is organized on 26-03-15 for III/IV B.Tech and M.Tech (ES & WCSN). The resource person Mr. P Kalee Prasad is a Senior Engineer in Dooraddarshankendra, Vijayawada. He started the guest lecture with the introduction to modulation and explained different types of modulation techniques used in TV broadcasting, mobile communications and satellite communications. Also discussed the different types of Indian satellites, their importance in the coverage of large geographical area for communications and their role during disaster alerts.



He further discussed on the transmission aspects of Dooradharshan, other private channels and DTH concepts. Students understand how theoretical concepts they studied in the course are implemented in real time. ❖

**Publications:**

1. ArunaKumari. D published a paper entitled "Privacy during Data mining", in ASIC-SPRINGER Volume-338 , Jan- 2015.
2. Ravi .T published a paper entitled "Threshold based image compression" in SCOPUS indexed International Journal of Applied Engineering Research,ISSN: 0973-4562 Volume-10 Issue-2, Feb-2015.
3. Anuradha. T published a paper entitled "Recent trends in data mining for crime detection " in SCOPUS indexed International Journal of Applied Engineering Research,ISSN: 0973-4562, Volume-9 Issue-24, Feb- 2015.
4. Suman .M published a paper entitled "indomitable forensic tools of computer aided investigative

environment (caine) linux” in SCOPUS indexed International Journal of Applied Engineering Research, ISSN: 0973-4562 Volume-10 Issue-2, Feb- 2015.

5. J. K. R. Sastry published a paper entitled “A novel binomial tree approach to calculate collateral amount for an option with credit risk” in Scopus indexed JATIT ISSN 1992-8645 Volume-72, Issue-1, Feb-2015.
6. Anuradha. T published a paper entitled “Multimedia database for attainment targets” in Google Scholar indexed IJACCC, ISSN: 2348-0157 Volume-2 Issue-2, Feb- 2015.
7. Kameswara Rao. M published a paper entitled “Evaluation of new technique to secure end user information using cloud monitoring approach” in Google Scholar indexed IJECSE, ISSN: 2277-1956 Volume-4 Issue-1, Feb- 2015.
8. KiranKumar. K published a paper entitled “Introduction to techniques of processing and optimization” in Google Scholar indexed IJIRAE, ISSN: 2439-2163 Volume-2, Issue-3, Mar- 2015.
9. J. K. R. Sastry published a paper entitled “a novel decision tree approach for option pricing using a clustering based learning algorithm” in Scopus indexed ARPNJAES ISSN 1819-6608, Volume-10, Issue-4, Mar-2015
10. J.V.N.Ramesh published a paper entitled “energy utilization of tcp in adhoc networks” in Google Scholar indexed GJCST ISSN 0975-4172 Volume-15, Issue-1, Jan-2015
11. M. Suman published a paper “Speech Recognition using MFCC & VQLBG” in Journal of Environmental Science, Computer Science and Engineering & Technology, E-ISSN:2278-179X volume 4, Issue 2, March 1, 2015.
12. D. B. K. Kamesh published a paper entitled “Home automation using GSM” in Google Scholar indexed IJESR ISSN 2230-8504 Volume-6, Issue-24, Mar-2015.

**Conferences:**

1. M.Suman presented a paper “ Performance analysis of enhanced noisy compressed speech signal corrupted by gaussian and real world noise using recursive filter” in International conference SPACES

**Student publications:**

1. Y. V. Vijay Krishna, Ch. Anusha published a paper “An Multiprocessor System-On-Chip scheduling

and partitioning using shared scratch pad memory” in International Journal IJESIT, ISSN:2319-5967 volume 2, Issue 2, January 2015.

2. L. Eswara Chandra vidya sagar, B.Aparna Reddy published a paper “Home Automation using GSM” International Journal IJESR, ISSN:2230-8512 volume 6, Article 03392, March 2015.
3. V. Neelima, R. Ramya Priya published a paper “A review of Data mining using bigdata in health informatics” in International Journal of Scientific and research publications, ISSN:2250-3153 volume 5, Issue 3, March 2015.
4. T. M. Santhi, Voruganti Vamshi priya published a paper “Introduction to techniques of Query processing and optimization “in International Journal of innovative research in advanced engineering(IJIRAE), ISSN:2349-2163, volume 2, Issue 3, March 2015.
5. K. Harish, K. Manoj Kumar, S. Samrajyam published a paper “Speech Recognition using MFCC & VQLBG” in Journal of Environmental Science, Computer Science and Engineering & Technology, E-ISSN:2278-179X volume 4, Issue2, March 2015.

**Faculty Achievements**

Dr. J. K. R. Sastry received his Ph.D in Computer Science & Engineering from JNTUH on 24/01/2015 for his thesis entitled “Enhancing Intelligence and Security of Tagging Warehouses”.

Dr. Duvvuri B K Kamesh received his Ph.D in Computer Science Engineering from Shri Venkateshwara University ,Gajraula on 21/02/2015 for his thesis entitled “Comprehensive testing of embedded Systems through refined clean room software engineering methodology”.



## కేఎల్ అధ్యాపకుడికి డాక్టర్ ఆఫ్ ఫిలాసఫీ అవార్డు

తాడేపల్లి రూరల్ : వడ్డేశ్వరం, గ్రీన్ ఫీల్డ్స్ లోని కొనేరు లక్ష్మయ్య విశ్వవిద్యాలయంలో డిపార్ట్ మెంట్ ఆఫ్ ఎలక్ట్రానిక్స్ అండ్ కంప్యూటర్స్ ఇంజనీరింగ్ లో ఆసిస్టెంట్ ప్రొఫెసర్ గా పనిచేస్తున్న దువ్వూరి బాలకృష్ణ కామేష్ కు శ్రీ వెంకటేశ్వర యూనివర్సిటీ, అమ్రోహా, ఉత్తరప్రదేశ్ డాక్టర్ ఆఫ్ ఫిలాసఫీ అవార్డును బుధవారం అందజేసింది. ఆయన పరిశోధన 'కాంప్రహెన్సివ్ టెస్టింగ్ ఆఫ్ ఎంబెడెడ్ సిస్టమ్స్ త్రూ రిఫైన్డ్ క్లీన్ రూమ్ సాఫ్ట్ వేర్ ఇంజనీరింగ్ మెథడాలోజీకు డాక్టరేట్ అందించారని దువ్వూరి బాలకృష్ణ కామేష్ తెలిపారు. తన పరిశోధనలకు శ్రీ వెంకటేశ్వర యూనివర్సిటీ, అమ్రోహా ఉత్తరప్రదేశ్ కు చెందిన డాక్టర్ ఎ.వశిష్ట చీఫ్ సూపర్ వైజర్ గానూ, కేఎల్ యూనివర్సిటీ కే చెందిన డాక్టర్ వి.చంద్రశేఖర్ కో- గైడ్ గాను పనిచేశారన్నారు. డాక్టర్ కామేష్ పరిశోధనల ద్వారా ఎంబెడెడ్ సిస్టమ్స్ లో పరిశోధకులకు మేలు జరుగుతుందని, తన పరిశోధనలు అంతర్జాతీయంగా ఎంతో పేరున్న 18 స్కాప్స్ ఇండెక్స్ పబ్లికేషన్స్ లో ప్రచురితం కానున్నాయని తెలిపారు. చక్కని ప్రతిభ ఉపకులపతి డాక్టర్ ఎల్ ఎస్ ఎస్ రెడ్డి, ప్రొఫెసర్ వైస్ చాన్సలర్ డాక్టర్ ఏవీఎస్ ప్రసాద్ తదితరులు ఆభినందించారు.

### Student Achievements:

1. Ch. Sai Krishna and team secured 4th Place in Thinkernet-Techfest organized by IIT Bombay and Intel.
2. T. Durga Rao of III/IV B.Tech Secured First Place in Paper Presentation Contest at BECTAGON2k15.
3. T. Durga Rao of III/IV B.Tech Secured Second Place in Poster Presentation Contest at BECTAGON2k15.

*Thank You*



శుభాకాంక్షలు శుభాకాంక్షలు శుభాకాంక్షలు శుభాకాంక్షలు శుభాకాంక్షలు శుభాకాంక్షలు శుభాకాంక్షలు శుభాకాంక్షలు శుభాకాంక్షలు శుభాకాంక్షలు

*With Best Compliments From*

DEPARTMENT OF  
**ELECTRONICS & COMPUTER**  
**E N G I N E E R I N G**