DEPARTMENT OF
ELECTRONICS & COMPUTER ENGINEERING
NEWSLETTER

Green Fields, Vaddeswaram, Guntur Dist., A. P., 522 502.

K L University
(Deemed to be University, Estd. u/s. 3 of UGC Act 1956)
(NAAC Accredited "A" Grade University)

Vol. I, Issue 5	Dr M. Suman, HOD-ECM	Oct-December, 2014

Contents

Editorial Message

Dear readers, this newsletter covering the period from October 2014 to December 2014 offers a view of the academic, professional, research and center for extension activities of the Department.

As part of KLU women's forum, has conducted an interactive session on "NIRBHAYA ACT" under SAHELI 2014 to all II, III, IV year B.Tech & M.Tech girl students on 28th Oct 2014

As part of the Research Group activities, a two day workshop organized by Embedded Systems & Sensor Networks research group on 26th & 27th December 2014.

Renowned companies like **OSMOSYS, IBM, VIRTUSA, HCL, MPHASIS** and **TECHMAHINDRA** 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:

- 2 Students of IV/IV B.Tech got placed in OSMOSYS
- 2 Students of IV/IV B.Tech got placed in IBM
- 2 Students of IV/IV B.Tech got placed in VIRTUSAaa
- 4 Students of IV/IV B.Tech got placed in HCL
- 2 Students of IV/IV B.Tech got placed in MPHASIS
- 2 Students of IV/IV B.Tech got placed in TECHMAHINDRA

Industrial Practice School :

- o 28 Students of IV/IV B.Tech opted for Practice School.
- o 8 Students of IV/IV B.Tech went to WIPRO Internship.

Workshop:

A TWO DAY WORKSHOP ON **"EMBEDDED SYSTEM DESIGN AND DEVELOPMENT TOOLS"**

Organized by

Embedded System & Sensor Networks Research Group | Department of Electronics & Computer Engineering

In Association With

IEEE

CSI-KONERU CHAPTER

Date: 26th & 27th Dec, 2014

Venue: Jasmine Hall

The Embedded System & Sensor Networks Research Group and Department of Electronics & Computer Engineering of K L University organized a two day workshop on "Embedded System Design and Development Tools" on 26th and 27th Dec,2014. This workshop was organized in association with IEEE KLUSB and CSI-Koneru Chapter. The convenor of the workshop is Prof. N. Venkatram, Head (Department of ECM).

Picture 1: Participants and faculty immersed in the workshop

Mr. Y. Seshananda Reddy from Sunshinelektrik was the resource person for the workshop. Mr. Y. Seshananda Reddy has over five years experience on Embedded System Training. Mr. Reddy has the experience of conducting various workshops in various colleges.

The students of B.Tech/M.Tech- ECM, ECE, EEE, CSE attended the workshop.

Day 1 (26th Dec, 2014)

The first day of the workshop started at 10:00 a.m. with a brief speech by Dr. K. Sreenivas Ravi, Head of Embedded System & Sensor Networks Research Group. Dr. K. Sreenivas Ravi explained the importance of Embedded System and the Development Tools in modern days. He welcomed the resource person from Sunshinelektrik, Mr. Y. Seshananda Reddy.

Mr. Seshananda Reddy started the session at 10:30 a.m. with the Introduction of Embedded System, its types and its applications. The morning session also covered the following topics:

- Evolution of Processors
- Difference between Microcontrollers and Processors
- Block diagram of Electronic System
- Block diagram of Microcontroller
- Pin diagram of 8051 Microcontroller

- Difference between C and Embedded C
- Syntax and data types of Embedded C
- Difference between Interfacing and Connecting devices
- About 7 segment device
- Interfacing 8051 Microcontroller with 7 segment device
- Introduce Keil and Proteus
- How to display digits on 7 segment device interfaced with 8051 MC

The morning session resumed after lunch at 2:30 p.m. The afternoon session of the workshop focused on the hands on experience to be given to the participants. The afternoon session was conducted in the Embedded System Lab of Computer Block. All the participants worked on the tools (Keil and Proteus). The participants practised the program to display numerical digits on 7 segment device interfaced with 8051 microcontroller using the tools. After a ten minutes break, the session ended after the detailing the pin diagram of LCD Interfacing.

Picture 2: Mr. Seshananda Reddy addressing the gathering

Day 2 (27th Dec, 2014)

The morning session of second day of workshop was the theory explanation of LCD Interfacing, DC Motors and designing simple robot. The resource person explained the LCD command codes and their description. The types of LCDs , its pin diagram and working description was also explained. The step by step explanation on how to write a program to interface and display characters on 16x2 LCD using 8051 was given. The different type of Motors and their difference was briefly explained. To interface a motor with a microcontroller, a driver IC is required. The operation and pin diagram of the driver control was explained to enable us to interface it with a micro

controller. The participants were guided on how to write a program to control DC motors to move in clockwise and anti clockwise direction. Also, a simple program to control a simple robot to move in different directions was explained.

After a small break, the session resumed with a new topic, "PIC microcontrollers". The detailed information about the history and evolution of PIC, its nature, and the family of PIC was given. The IDE of PIC of Microchips i.e. MPLab was introduced. The pin diagram and architecture of PIC 18F4550 was explained in the end of morning session.

The afternoon session was again a hands on experience on the IDEs, Keil and Proteus. The participants practised interfacing LCD and motors to 8051 microcontroller. An exercise was given to the participants to display a scrolling of their names. The last one hour of the end session was a brief description of ARM processor and comparison with other controllers.

Seminar:

Report on CAREER GUIDANCE SEMINAR

Organized by

Department of Electronics & Computer Engineering
Date: 19th Dec, 2014 (Friday) Venue: Room No. C121
Time: 15:30 - 17:00 hrs

The Department of Electronics and Computer Engineering organized a 'Career Guidance Seminar' in the interest of III/IV B.Tech students of all disciplines. The department invited Mr. Naga VishnuKanth Irukulapati, PhD student in Chalmers University of Technology, Gothenburg, Sweden. Mr. VishnuKanth completed his master studies in Communication Engineering program at Chalmers University with "Sensor fusion for vehicular networks" topic as his master thesis. His current research focus is on Receiver design for coherent optical communications with emphasis on mitigation of nonlinear effects and specifically on the design on optimal receivers.

in Sweden. Mr. VishnuKanth took the students to a virtual tour to Sweden by detailing about the life in Sweden, lifestyle, language, culture, their hospitality, and opportunities. The lifestyle and culture of a place attracts people towards it. By knowing, about Sweden it is likely that students get interested in studying in Sweden. Mr. VishnuKanth also briefed the benefits and facilities provided to the students to study in Sweden, how to apply for colleges, tips to make a choice, and about the scholarship programmes. The students would also have to do their masters and thesis in the future, so he shared his experience and views while pursuing his masters. The students were introduced to the open study environment present in Sweden. Mr. VishnuKanth took the help of video clippings to help the students visualise their life and experience during their study in Sweden. The various master programmes offered by Chalmers University to the students of disciplines was informed. The students were also informed the mode of contact to the University and source for further details.

Mr. VishnuKanth from Chalmers University addressing the students

The seminar was attended by students of ECM, ECE, CSE, EEE and Mechanical. The speaker was here to share his experiences of the difference of education systems in India and Sweden, and clear the frequently asked questions regarding higher studies

Dr. Sreenivas Ravi presenting a token of gratitude to Mr. VishnuKanth

The seminar was wrapped up by presenting a small token of gratitude to the key note speaker. The students and faculty interacted with the speaker to gain some more information.

Publications in International Journals:

- Abdul Ahad published a paper entitled "Secure Data Aggregation in Wireless Sensor Networks" in International Journal of Innovative Research in Advanced Engineering (IJIRAE) ISSN: 2349-2163 , Volume 1, Issue 10 (November 2014).

- Abdul Ahad published a paper entitled "A New Approach for Malicious Code Detection in Data Mining" in International Journal of Innovative Science Engineering and Technology (IJISET), Volume 1- issue 9, ISSN 2348 - 7968.

- K. V. D. Sagar published a paper entitled "Data Leakage Detection Using Cloud Computing" in Global Journal of Computer Science and Technology, ISSN : 0975-4172 ,Volume 14 Issue 3: 13-15.

- T. Anuradha published a paper entitled "Performance of Hyper Threading on Memory Mapping of Files" in International Journal of Applied Engineering Research (IJAER) Volume 9, Number 21 (2014), ISSN 1087--1090.

- D. Aruna Kumari, M. Suman published a paper entitled "Antiphishing based face recognition & Image" in International Journal of Innovative Research in Science and Technology (IJIRST) - ISSN: 2229-3116, Volume 3, Issue 12, November 2014 (Special Issue).

- D. Aruna Kumari, M. Suman published a paper entitled "Antiphishing based face recognition & Biometric " in International Journal of Innovative Research in Science and Technology (IJIRST) - ISSN : 2229-3116 ,Volume 3, Issue 12, November 2014 (Special Issue).

- D. Aruna Kumari, M. Suman published a paper entitled "Privacy during Data mining " in Springer Indexed Advances in Intelligent Systems and Computing Volume 338, 2015, pp 593-600.

- Raghav Rao K published a paper entitled "Implementation of sensor webservices portal for environment maintaining and ontological context based decision making-A test bed approach in International Journal of Applied Engineering Research (IJAER) Volume 9, Number 22 (2014), ISSN 1087--1090.

- Ravi . T published a paper entitled "Basic fundamental recognition of voiced unvoiced and silence region of a speech in International Journal of Engineering and Advanced Technology (IJEAT),ISSN: 2249 – 8958, Volume-4 Issue-2, December 2014.

Publications in International / National Conferences:

- D. Aruna Kumari, M.Suman presented a paper "Antiphishing based on face recognition & Biometric" in 6th International Conference on Information Tachnology and Business Intelligence (ITBI 2014), 21-23 Nov 2014, Hyderabad.

- D.Aruna Kumari, M.Suman presented a paper "Antiphishing based on face recognition &Image" in 6th International Conference on Information Technology and Business Intelligence (ITBI 2014), 21-23 Nov 2014, Hyderabad.

- D. Aruna Kumari, M. Suman presented a paper "Privacy during data mining", in International Conference on Emerging ICT for Bridging Future, 12th-14th, December 2014, JNTU Hyderabad.

Achievements:

- Smt. T. Anuradha, Assoc. Professor, Dept. of ECM received "Active participation –Woman Member award-2014 "at Computer Society of India Awards 2013-2014 on 12th December, 2014 at JNTU, Hyderabad, Kukatpally campus.

- Dr. D. Aruna Kumari, Associate Professor was awarded Ph.D degree from KL University on 13th June 2014 and the degree was confirmed in the 4th Convocation of K L University on 29th December 2014.

- Dr. Maloji Suman, Professor was awarded Ph.D degree from KL University on 3rd July 2014 and the degree was confirmed in at 4th Convocation of K L University on 29th December 2014.

Outreach by Faculty

- Dr. J. K. R. Sastry, Professor, Dept of ECM Delivered a guest Lecture on "Enhancing the Research Profile of a Deemed University" at ICFAI University, Hyderabad on 11th December 2014.

NSS

- Students of ECM Collected HUD-HUD –Relief Fund of Rs 25,000/-.

Saheli:

Department of Electronics & Computer Engineering

Report on SAHELI program

As part of the **"SAHELI"** program of KLU women's forum, ECM department has conducted an interactive session on "NIRBHAYA ACT" to all II, III, IV year B.Tech & M.Tech girl students on 28.10.14 in Room No: C625 from 4 P.M to 5.10 P.M

Nirbhaya Act:

1. The amendments proposed seek to replace the offence of rape with sexual assault which has a wider definition.

2. The Act protects the victim by penalizing public servants who fail to record FIRs related to sexual offences. It also requires the victim to be provided with legal and medical assistance.

3. The Act specifies a separate offence for acid attack. Other new offences such as voyeurism, stalking, assault to disrobe a woman, and sexual harassment have also been defined.

4. The Act prescribes higher punishment for sexual assault resulting in death or persistent vegetative state, gang sexual assault and repeat offenders.

5. The Act increases the punishment for sexual assault upon a judicially separated wife.

6. The Act also increases the consent age from 16 to 18 years.

In this session, Smt. T. Anuradha, Associate Professor, ECM has delivered how a girl has to move in the society and how she has to protect herself and how to behave with the stranger's and also avoid such circumstances from Men.

Syed Sameena, Final Year student of ECM has delivered how a women plays a key role in Society and at home.

N. Yuvana, Final Year student of Ecm also spoken about the Nirbhaya Act.

Thank You

With Best Complements Form

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