

## **ELECTRO WAVES NEWS LETTER**

**Department of Electrical and Electronics Engineering**

Kumaraguru College of technology

Coimbaore-641049

**ISSUE- 15**

**2013-2014(Jan-May)**

## DEPARTMENT EVENTS

### **“Two day National Workshop on EMBEDDED COMPUTING, COMMUNICATION AND CONTROL--- EC<sup>3</sup> 2014”**

Organizers: Prof.K.Premalatha & Prof. C. Udhaya Shankar

No. of students attended: 40

#### **About Program:**

The National Workshop on Embedded Computing, Communication And Control was organized during January 31<sup>st</sup> and February 1<sup>st</sup> 2014 by the Department of EEE, Kumaraguru College of Technology with an objective to provide a forum for growing researchers, engineers and post graduate students from different colleges to exchange their ideas and discuss innovative methods of integration and deployment.

At the inaugural session on 31<sup>st</sup> January 2014, Dr. Rani Thottungal, HOD/EEE, KCT, welcomed the delegate and Participants presided over the function. The chief guest for the function was Shri. Selvaraju Muthusamy, Director, Hands-on Technologies, Coimbatore delivered the inaugural address. The Coordinator Prof .C. Udhaya Shankar, EEE, KCT outlined events and explained the theme of the workshop. The vote of thanks was given by Prof.K.Premalatha, EEE, KCT.

The chief guest in his keynote address explained the innovations in Embedded Computing, Communication And Control using advanced IC's and

Eight technical sessions were arranged to accommodate all the Participants as per the domain area.



Photo: Workshop on EMBEDDED COMPUTING, COMMUNICATION AND CONTROL held on 31.01.14 and 01.02.2014. From the left Dr. Rani Thottungal (HOD- Department of EEE), Prof.C.Udayashankar (Associate professor/EEE), Prof. J.Ramprabu (Assistant Professor - II / EEE), Prof.K.Premalatha (Associate professor / EEE), Selvaraju Muthusamy, Director, HandsOn Technologies and his colleague.

## **Two day National Workshop on “ARM – Cortex 7” 2014 held on 20<sup>th</sup> February & 21<sup>st</sup> February 2014**

Organizers: Prof. B.Karunamoorthy AP (SRG)/EEE  
Prof. J.Ramprabu AP/EEE  
Prof. S.Kaliappan AP/EEE

**No. of staffs and students attended: 25**

### **ABOUT THE TRAINING**

With the growing importance of the embedded systems, the need to design embedded applications with micro controllers having advanced features is gaining prominence. Arm, an advanced RISC machine is emerging as one of the prominent standard for embedded RISC processing across communication, networking, consumer, portable, automotive and multimedia application markets. There is a growing need for embedded engineers to understand and work with the arm processor family architecture and software development tools. This 2-day workshop will enable participants to understand ARM Cortex-7 architectures, its programming and its various peripherals.

At the inaugural session on 20<sup>th</sup> Feb 2014, Dr. Rani Thottungal, HOD/EEE, KCT, welcomed the delegate and Participants presided over the function. The chief guest for the function was Shri. Senthil Arumugam M, Head – R & D, Department of Electronics Design and Automation, Pantech ProEd Pvt Ltd, Chennai. delivered the inaugural address. The Coordinator Prof. B.Karunamoorthy, EEE, KCT outlined events and explained the theme of the workshop. The vote of thanks was given by Prof.J.Ramprabu, EEE, KCT.

The chief guest in his keynote address explained the innovations in ARM 7 CORTEX 14.

Eight technical sessions were arranged to accommodate all the Participants as per the domain area.



Photo: Two day National Workshop on “ARM – Cortex 7” 2014 held on 20<sup>th</sup> February & 21<sup>st</sup> February

### PAPERS PUBLISHED (2013-2014)

SI No	Name of the Faculty/Designation	Title of the Paper	Publication Details
1	Prof. M.Mohanraj / AP - II	Reduction of Sags and Swells in a Distributed Generation System based on Environmental Characteristics.	IJETAE: International Journal of Emerging Technology and Advanced Engineering ,Volume 3, Issue 12, ( ISSN 2250 – 2459) December 2013
2	Prof. M.Mohanraj / AP - II	Reduction of Sags and Swells in a Distributed Generation System based on Environmental Characteristics.	IJETAE:International Journal of Emerging Technology and Advanced Engineering ,Volume 3, Issue 12, ( ISSN 2250 – 2459) December 2013

3	Prof. M.Mohanraj / AP - II	Dynamic Solar powered Robot Using DC-DC SEPIC Topology	IJRET: International Journal of Research in Engineering and Technology eISSN: 2319-1163   pISSN: 2321-7308, Volume: 03 Issue: 02   Feb-2014,
4	Prof. M.Mohanraj / AP - II	Implementation of Inverter with Flexible Voltage Control for A DC Line in a System	IJERA: Int. Journal of Engineering Research and Applications ISSN : 2248-9622, Vol. 4, Issue 2( Version 1), February 2014, pp.633-637
5	Prof.J.Ramprabu / AP - II	Pedestrian and Object Detection System In Vehicles for Safety Driving	International Journal of Advances in Engineering & Technology, Jan. 2014. ©IJAET ISSN: 22311963 Vol. 6, Issue 6, pp. 2566-2571
6	Prof.S.Kaliappan / AP	Design And Implementation Of PFC CUK Converter-Based PMLDCCM Drive	International Journal of Engineering Research and Applications ISSN : 2248-9622, Vol. 4, Issue 2( Version 1), February 2014, pp.139-143
7	Prof.R.Sureshkumar/ AP	An Efficient energy management and household appliances scheduling for residential customers using Embedded systems	International journal of Emerging technology and advanced Engineering Vol 4 Issue 1 Jan 2014.
8	Prof.R.Sureshkumar/ AP	A Remote monitoring system for a 3 phase 10 kVA switchable distribution transformer using Zigbee wireless network	International journal of research in engineering and Technology
9	Prof.R.S.Sandhya Devi / AP	Portable Gait Rehabilitation Based On Ambulation Data	International Journal of Engineering Research & Technology, Jan.2014 IJERT, Vol.3 - Issue

		1,pp. 1329 - 1332, ISSN: 2278-0181,
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**PAPERS PRESENTED IN INTERNATIONAL SEMINARS /  
CONFERENCES (2012-13)**

<b>Sl. No</b>	<b>Name of the Faculty/Designation</b>	<b>Seminar / Conference</b>	<b>Organizer (By &amp; At)</b>	<b>Date</b>	<b>Title</b>
1	Prof.M.Mohanraj /AP - II	Conference	Oklahoma state University, Stillwater, USA & Coimbatore Institute of Technology, Coimbatore	Jan 8-10th 2014	Reduction of Sags and Swells in a Distributed Generation System based on Environmental Characteristics.
2	Prof.M.Mohanraj / AP -II	Conference	Oklahoma state University, Stillwater, USA & Coimbatore Institute of Technology, Coimbatore	Jan 8-10th 2014	Dynamic Solar powered Robot Using DC-DC SEPIC Topology
3	Prof.M.Mohanraj / AP - II	Conference	ICGCCEE'14 International Conference	06 -08 Mar 2014	Implementation of Inverter with Flexible Voltage Control for a DC Line in a System

4	Prof.J.Ramprabu / AP - II	Conference	International conference on Intelligent Computing Applications ICICA'2014	6th & 7th March 2014	Authentication based anti-piracy technique for Embedded System
5	Prof.J.Ramprabu / AP - II	Conference	ICIIECS'14 ,International conference	14th March 2014	An Image Processing Approach for Avoiding Road Accidents
6	Prof.R.S.Sandhya Devi /AP	Conference	CIT jointly with Oklahoma STATE university, Stillwater, USA and Victoria University, Melbourne, Australia	Jan 8-10th 2014	Portable Gait Rehabilitation Based On Ambulation Data



## INDUSTRIAL VISITS ARRANGED FOR STUDENTS

SI.No	Department	Program /batch (year)/Name of the Student	Industry visited	Date of visit
1.	EEE	B.E / 2011-14 III year	BIOMASS GASIFIER Power Plant - Odanthurai panchayat	26.03.2014

## FUNDED PROJECTS

SI No	Name of the Faculty/Designation	Title of the Project	Funding Agency	Sanctioned Amount	Duration
1	Prof.M.Nirmala AP (SRG)	Automatic Potter wheel	RuTag	1,00,000/-	5 years
2	Prof.D.Rajalakshmi AP(SRG)	Automatic Potter wheel	RuTag	1,00,000/-	5 years

## PARTICIPATION IN SEMINARS / WORKSHOPS / FDP

Sl. No	Name of the Faculty/Designation	Seminar / Workshop/ FDP	Organizer (By & At)	Date	Title
1	Prof. V.Evangelin Jeba / AP	Workshop	EEE Dept/PSG College of Technology	31 <sup>st</sup> January & 1 <sup>st</sup> February, 2014	Power System Deregulation and Restructuring

## GUEST LECTURES DELIVERED

Sl. No	Name of the Faculty/Designation	Lectures delivered at / sessions chaired at Details	Topic Handled
1	Prof.Thirumoorthi P / Associate Professor	Resource Person In "Workshop On MATLAB And PSIM ", Maharaja Institute Of Technology, Coimbatore	PSIM circuit design and simulation

## LIBRARY

SI. No	Details	No. of volumes / addition	Investment made
1	Book	90	54635
2	Journals	15	31150
3	Other publication like CD, Magazine etc.,	NIL	NIL

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