2016

# ECE NEWS

April Volume 6 Issue 1

**Department of Electronics & Communication Engineering**Jyothi Engineering College, Cheruthuruthy, Thrissur - 679531



### Vision

Create eminent and ethical leaders in the field of Electronics and Communication through quality professional education to excel in academia and industry.

#### Mission

- Provide theoretical and practical knowledge through quality education and life skills training to make competent graduates with social commitment.
- To impart entrepreneurial orientation and research motivation among the students through knowledge transfer with industrial, academic & research institutions.

# STAFF ACHIEVEMENTS

#### **\* PAPER PUBLICATIONS**

- 1. Ms. Sindhu S published a paper titled "An Exponential Composition Algorithm Based UPQC for Power Quality Enhancement." in Elsevier, Procedia Technology 21 (2015): 415-422.
- 2. Ms. Sindhu S published a paper titled "Design and simulation of an improved algorithm for three phase shunt active filter" in International Journal of Applied Engineering Research, 10(2015): 844-849
- **3.** Ms. Sindhu S published a paper titled "Power Quality Compensation for an Induction Motor Drive with UPQC" in International Journal of Applied Engineering Research, 20(2015): 15227-15231



## PROJECT SELECTED FOR COMPETITION

TECHNICAL TALKS AND WORKSHOPS BY FACULTY

The project work titled "Crash Messenger" guided by Mr. Jinesh K J, Assistant Professor, ECE has been selected for project competition event in Techtop technical fest, hosted by Sahrdya College of Engineer, Thrissur



- Mr. Sreekanth M, Assistant Professor, conducted a workshop on "Robotics" in a session organized by Entrepreneur Development Cell, JECC on 21/01/16.
- Mr. Sreekanth M, Assistant Professor, handled session on "Smart Materials and Structures" in the two day Faculty Development Programme on "Robotics & Industrial Automation" organized by ME Dept, JECC on 10/02/16 & 11/02/16
- Mr. SrEekanth M, Assistant Professor, conducted a talk on "Robotics" at Government College of Engineering Thalassery on 11/03/2016.



Mr. Sreekanth M

APRIL 2016

# **STAFF ACTIVITIES**

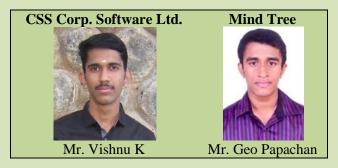
#### **❖** SEMINARS/WORKSHOPS ATTENDED

1. Mr. DipinKrishnnan R attended one day ASAP workshop at ASAP centre, Vazhuthakad TVM on 23/11/15.

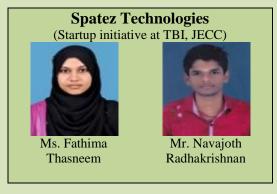
- 2. Mr. Abraham P A attended five day Faculty Development Programme on "Signal Processing for Bio medical Applications" at MES college of Engineering Kuttipuram from 16/11/15-20/11/15.
- 3. Ms. Bindhu K Rajan attended three day faculty development programme on "Computational Electromagnetics" at Cochin University of Science and Technology, Thrikkakara, from 07/12/2015 to 09/12/2015
- 4. Ms. Shiny M I attended two day seminar on "Materials, Process and Devices for flexible electronics", held at PSG Institute of Advanced Studies, Coimbatore, on 14/12/15 & 15/12/15.
- 5. Mr. Ponmani Raja M. attended two day national level workshop on "Embedded Systems and its applications" organized in association with Vi-Microsystems Pvt. Ltd. Chennai at Ramco Institute of Technology, Rajapalayam, from 21/12/2015 to 22/12/2015.

# STUDENTS' ACHIEVEMENTS

#### **\*** PLACEMENTS







ECE NEWS APRIL 2016





# **\*** PUBLICATIONS BY STUDENTS AND STAFF

Sl. No.	Title of the Paper	Authors	Conference / journal	Name of Conf / Journal	Venue
1	SMART ELECTRONIC GUIDING STICK	GIEJO TONY K, FIYA FRANCIS C, ABHILASH NAIR, MELVI C V	CONFERENCE	ICIIECS'16	Karpagam College of Engineering,COIM BATORE
2	CASE STUDY OF LOW POWER FLIPFLOP	ANU MARIA C J, ATHIRA K VEERAMANI, GILTTA BABU, PRINCE DAVIS, RESHMA RAJAN K	CONFERENCE	ICHECS'16	Karpagam College of Engineering,COIM BATORE
3	IMPLEMENTATION OF FLOATING POINT ALU IN FPGA	ANU ANTONY, IGNESH TOM, JAAS THOMAS, KEVIN JOE ANTHIKKAT, LINCY VINCENT	CONFERENCE	ICHECS'16	Karpagam College of Engineering,COIM BATORE
4	COMPARISON BETWEEN SLM-COMPANDING, PRECODING-COMPANDING TECHNIQUES IN OFDM SYSTEM	ALEX KANGAPPADEN, ANGILA ROSE DANIEL, PEEYUSHA V P, SNEHA P, VISHNUDAS A M PONMANI RAJA	CONFERENCE	ICCPCT'16	NOORUL ISLAM UNIVERSITY, KUMARACOIL, KANYAKUMARI DIST
5	A CASE STUDY ON HUMAN COMPUTER INTERACTION THROUGH VIRTUAL MOUSE	EDWIN ANDREWS, VENUGOPAL K, ARJUN K, ANJALI V S, DEVIKA MOHAN S, SHINY M I	CONFERENCE	ICHECS'16	Karpagam College of Engineering,COIM BATORE
6	SIGN LANGUAGE TRANSLATOR	ALICE K PAUL, ALEX JOSE C, ANU P S, NIDHIYA JOSE A, RIJI PAUL C	CONFERENCE	ICHECS'16	COIMBATORE
7	REAL-TIME NONINTRUSIVE MONITORING AND DETECTION OF EYE BLINKING IN VIEW OF ACCIDENT PREVENTION DUE TO DROWSINESS	BINDHU K RAJAN, ANJALI K U, ATHIRAMOL K THAMPI, ATHIRA VIJAYARAMAN, FRANIYA FRANCIS M, JEFFY JAMES N	CONFERENCE	ICCPCT'16	NOORUL ISLAM UNIVERSITY, KUMARACOIL, KANYAKUMARI DIST

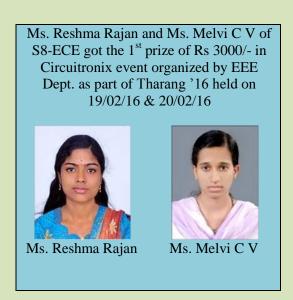
**ECE NEWS APRIL 2016** 

Sl. No.	Title of the Paper	Authors	Conference / journal	Name of Conf / Journal	Venue
8	A NOVEL SECURITY ENABLED SPEED MONITORING SYSTEM FOR TWO WHEELERS USING WIRELESS TECHNOLOGY	ABIN JOHNS RAJU, DEEPAK S, SNEHA A, SOWMIYA DEVI V R, SUNITHA V S, SURAJA P JOY	CONFERENCE	ICCPCT'16	NOORUL ISLAM UNIVERSITY, KUMARACOIL, KANYAKUMARI DIST
9	BRAIN WAVE CONTROLLED SYSTEM FOR PARALYSED PATIENTS	AMBILY FRANCIS, FATHIMA THASNEEM M, ASHWATHI CHANDRASEKHARAN, ANUJ K, ASWIN BABY, VISHNU K	CONFERENCE	ICHECS'16	Karpagam College of Engineering,COIM BATORE

## STUDENTS' PAPER ACCEPTANCE

The paper titled "A Smart way for Home Automation and Security Using Raspberry Pi as Microcontroller" by Lakshmi K K, Liji K J has been accepted for publication in International Journal of Engineering Trends & Technology (IJETT), January 2016

### STUDENTS ACHIEVEMENTS IN EXTERNAL EVENTS



# STUDENTS' PROJECT WON 3rd PRIZE IN CASTALIA '16

(Tech fest at Vidya Academy of Science and Technology, Thrissur)

The project work titled "Home Automation and Security System" done by Ms. Lakshmi K K, Ms. Liji K J, Ms. Minu Vincent, Ms. Namitha C Anto and Mr. Navajoth P R of S8 - ECE won the 3<sup>rd</sup> Prize in the Project Expo event in CASTALIA '16 Techfest Organized by ISTE, IE(I) and IETE - VAST Students Chapters at Vidya Academy of Science and Technology (VAST), Thalakkottukara, Thrissur on 08/04/2016.



Ms. Lakshmi K K



Ms. Liji K J



Ms. Minu Vincent



Ms. Namitha C Anto



Mr. Navajoth P R

APRIL 2016

Mr. Amal Thomas of S6 ECE-A got the Special Summary Vision 2016- Campus Ambassador Award, in Thalapilly Thaluk, awarded by Govt of Kerala.



Mr. Amal Thomas K

Mr. Josy Joseph of S6 EC A secured first prize for innovative idea presentation in Startup i3 Competition sponsored by Kerala Start up Mission, held at Cochin University of Science & Technology, Muvattupuzha



Mr. Athul C N of S6 EC A completed MOOC course on "Introduction to Steel".



Mr. Athul C N

## **STUDENTS PARTICIPATION IN EXTERNAL EVENTS**

Ms. Franiya and Ms. Jeffy James of S8 ECE participated in techfest conducted by Nehru College of Engineering and Research on 04/02/16 & 05/02/16

41 Students of S3 EC A participated in three days residential training programme on Soft Skill Talent development from 10/12/15 - 12/12/15 at St. Marthoma Church Centre, Azheekode.

## **❖ STUDENTS' INTERNSHIP PROGRAMMES**

Following students of S6 ECE completed 5 day short term internship programme "Implant Training on Electronics and Communication Engineering" at Keltron Controls, Aroor, Alappuzha from 24/11/15 to 28/11/15

Anagha S ,Anitha P, Aswathy Anil, Aswathy Krishna, Gopika Unnikrishnan, Jasna T Jithin C G, Josy Joseph, Juliya Sunny, V S Anjali

#### **SOCIAL SERVICE ACTIVITIES**

19 students of S6 ECEA visited AMMATH Mathrusamrakshana Kendram and ABHAYAM, Kulappully as a part of their social service activities

Two students of S6 ECE A visited Helen Keller Blind Rehabilitation Centre, Vaniyamkulam as a part of their social service activities

ECE NEWS APRIL 2014

## **Programme Educational Objectives (PEOs)**

I. Graduates shall have fundamental and advanced knowledge in electronics and communication engineering along with knowledge in mathematics, science and computing and get employed in national or international organizations or government agencies.

- II. Graduates shall have ability in analyzing, designing and creating innovative solutions which lead to a lifelong learning process or higher qualification, making them experts in their profession thus helping to solve electronics & communication engineering and social problems.
- III. Graduates shall have good organizing capability, presentation skills, communicating ability, leadership, team work and ethical practices.

## **Programme Outcomes (POs)**

The Program Outcomes of Under-Graduate programs in Electronics & Communication Engineering are: Students will have

- (a) Ability to apply knowledge of mathematics, science and engineering in the field of Electronics & Communication engineering.
- **(b)** Ability to design and conduct experiments, analyze and interpret data and results in Electronics & Communication engineering.
- (c) Ability to design Electronics & Communication systems, components, or processes to meet the desired needs within realistic constraints such as health and safety, manufacturability and sustainability with economic, environmental, social, political and ethical considerations.
- (d) Ability to work individually as well as in multidisciplinary teams as a member or as a leader to accomplish the common goal.
- (e) Ability to identify, analyze, formulate, and solve engineering problems
- (f) Knowledge of professional and ethical responsibility.
- (g) Ability to communicate effectively in both verbal and written form in any area of their field to the industry, and society.
- (h) Broad knowledge necessary to understand the impact of engineering solutions on individuals, organizations and society.
- (i) Ability to engage in life-long learning to update their knowledge to keep pace with changes caused by dynamic nature of engineering field.
- (j) Awareness of the contemporary issues that help to integrate advanced and sustainable solutions in the user environment.
- (k) Ability to use the techniques, skills, and modern engineering tools, software and equipment necessary for designing, developing electronic systems.