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ECE NEWS

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.

DEPARTMENT ACTIVITIES

- 1.1. A two day workshop on ‘ *Intellectual Property Rights and Research Funding Possibilities* ’ was jointly organized by PIC-Kerala/KSCSTE and Department of Electronics and Communication Engineering, Jyothi Engineering College on 16th and 17th of January for the teaching staffs and Post Graduate students at Jyothi Engineering College Cheruthuruthy, Thrissur.



Participants of Two Day Workshop on ‘ *Intellectual Property Rights and Research Funding Possibilities* ’

❖ PLACEMENT IBS

Following two students of 2011-15 ECE Batch have achieved placement in IBS during the on-campus recruitment process conducted in SCMS Engineering College.

	
Ms. Remya K	Ms. Nithara Radhakrishnan

STAFF ACTIVITIES & ACHIEVEMENTS

❖ PAPER PUBLICATIONS

[1]: Mr. Jobin Varghese, Asst. Professor, Dept. of ECE, published a paper titled ***“Dynamic Duty-Cycled MAC for Wireless Sensor Networks with Energy Harvesters”***, in IEEE xplora, PP 156-160 (ISBN: 978-1-4799-6545-8, DOI:10.1109/CIMCA.2014.7057780, Publisher: IEEE).

[2]: Mr. Jobin Varghese, Asst. Professor, Dept. of ECE published a paper ***“Performance Analysis of Synchronous and Receiver Initiated MAC protocols under varying Traffic Density over Wireless Sensor Networks”***, in IEEE xplora, PP 1228-1232 (ISBN 978-1-4799-4191-9 DOI:10.1109/ICCICCT.2014.6993148, Publisher: IEEE).



Mr. Jobin Varghese

1. Ms. Bindhu K Rajan, Asst. Professor along with Ms. Nimpha Anto, Ms. Sneha Jose (2010-14 ECE Batch) published a paper titled ***“Fusion of Iris & Fingerprint Biometrics for Gender Classification using Neural Network”*** in the proceedings of the Second International Conference on Current Trends in Engineering & Technology, ICCTET'14, Akshaya College of Engineering Coimbatore, India.



Ms. Bindhu K Rajan

❖ PAPER PRESENTATIONS

[1]: Ms. Sindhu S, Asst. Professor, Dept. of ECE, ***“Design and Simulation of an improved algorithm for three phase shunt active filter”***; IEEE sponsored 9th International Conference on intelligent Systems & control, Karpagam College of Engineering, Coimbatore, Jan-2015.



Ms. Sindhu S

[1]: Ms. Bindhu K Rajan, Asst. Professor, Dept. of ECE, ***“Duration modelling for Text To Speech synthesis system using Festival speech engine developed for Malayalam language”***; IEEE sponsored International Conference on Circuit, power & Computing technologies (ICCPCT-2015), Noorul Islam University Nagarcoil, March-2015.



Ms. Bindhu K Rajan

❖ SEMINARS / WORKSHOPS CONDUCTED BY FACULTY

1. Mr. Jobin Varghese, Asst. Professor, Dept. of ECE conducted a seminar on “Exponential Decision MAC for Energy Harvesting-Wireless Sensor Networks” on 06-02-2015, organized by ISTE Chapter, JECC.



Mr. Jobin Varghese

❖ PARTICIPATION IN FDPs / SEMINARS / WORKSHOPS

All faculty members of the Department of Electronics and Communication Engineering, Jyothi Engineering College have participated in the two day workshop on ‘*Intellectual Property Rights and Research Funding Possibilities*’ which was jointly organized by PIC-Kerala/KSCSTE and Department of Electronics and Communication Engineering, Jyothi Engineering College from 16-01-2015 to 17-01-2015.

STUDENTS’ ACTIVITIES AND ACHIEVEMENTS

❖ STUDENTS’ PROJECT PARTICIPATION IN “YUVA MASTER MIND-2015” COMPETITION

Project titled ‘*Eyeball Controlled Wheelchair using Raspberry Pi with Home Automation*’ by Ms. Anna Joby Manjila, Ms. Jisna Shajan, Ms. Livy Varghese, Ms. Melinda Sunny, Ms. Nivya M S (2011-2015 ECE Batch) under the guidance of Mr. Jinesh K J, Asst. Professor, Dept. of ECE participated in the “Yuva Master Mind 2015” contest for innovative projects organized by Malayala Manorama News group, Kottayam from 05-02-2015 and 06-02-2015 at calicut.



Participation of S8 ECE students in Yuva Master Mind 2015

❖ PARTICIPATION IN COLLEGE EVENTS

1. Mr. Melvin C. Vincent of S6 AEI won SECOND prize in High jump, Mr. Savio Pauly won SECOND prize in 800 meter race, Mr. Jestin Jose won THIRD prize in 1500 meter race and Mr. Tince Thomas won THIRD prize in 400 meter race in the College Sports Meet held on 21st February 2015.
2. Mr. Melvin C. Vincent of S6 AEI won THIRD prize in Cartoon competition and SECOND prize in poster making competition as part of Collge Arts Fest.

❖ PARTICIPATION IN INTER COLLEGE EVENTS

Mr. Jishnu T B of S4 ECE-A has participated in the DZONE FEST 2015 for Kathakali Sangeetham and achieved SECOND prize.



Mr. Jishnu T B

❖ INDUSTRIAL VISITS / EDUCATION TOUR

60 Students from 2011-2015 ECE Batch, visited 220KV GIS Visveswaraya Centre Substation, Bangalore on 12/2/2015 and Karnataka Hybrid Micro Devices Ltd., Bangalore on 13/2/2015 as a part of their seven days educational tour to Hyderabad and Bangalore with Asst. Professor, Ms. Sindhu S, Asst. Professor, Mr. Jobin Varghese and two parents.



Students of 2011-15 ECE Batch along with Ms. Sindhu S, Asst. Professor in Visveswaraya Centre Substation

62 students of S4ECE B visited ACE Components, Mysore on 05-12-2014 as a part of their three days educational tour to Coorg and Mysore with Mr. Rijo P.C, Asst. Professor, Ms. Asha John, Asst. Professor and two parents.



Students of 2011-15 ECE Batch along with Mr. Rijo PC and Ms. Asha John in Ace Components, Mysore

An Industrial visit for S6 students was conducted to FACT, Ernakulum on 7th March 2015. Mr. Kapil Das K. S. & Ms. Neethu Rose Thomas accompanied them.

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.