

2014

April
Volume 4
Issue 1

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.

STAFF ACHIEVEMENTS

❖ PAPER PRESENTATIONS IN INTERNATIONAL CONFERENCE

1. Mr. Abin Johns Raju, Asst. Prof., along with Ms. Lakshmi R, Ms. Tilty Tony, Ms. Vineetha Wilson, Ms. Nella V Francis & Ms. Theresa Jones of 2009-2013 ECE Batch presented a paper titled “An Analytical Approach to the performance of LDPC Codes” in the IEEE International Conference of Advanced Computing & Communication Systems (ICACCS) Dec 2013, Coimbatore, India. on 20/12/2013.
2. Mr. Abin Johns Raju, Asst. Prof., along with Ms. Lakshmi R, Ms. Tilty Tony, Ms. Vineetha Wilson, Ms. Nella V Francis & Ms. Theresa Jones of 2009-2013 ECE Batch presented a paper titled “A Comparative Study of LDPC Codes & Convolutional Codes in WiMedia PHY” in the IEEE International Conference of Advanced Computing & Communication Systems (ICACCS) Dec 2013, Coimbatore, India. on 20/12/2013.
3. Paper titled “Stability Enhancement of a Multi- Area Power System with Unified Power Flow Controller”, by Mr. Abin Johns Raju, Asst. Prof. and Dr. Jose P. Therattil, HOD, ECE Dept., was presented in the IEEE International Power Engineering and Optimization Conference (PEOCO-2014) held at Langkawi, Malaysia on 24-25 March 2014.
4. Paper titled “Advanced Modeling and Control of a Power System with UPFC”, by Mr. Abraham P A, Asst. Prof. and Dr. Jose P. Therattil, HOD, ECE Dept., was presented in the IEEE International Power Engineering and Optimization Conference (PEOCO-2014) held at Langkawi, Malaysia on 24-25 March 2014.



Dr. Jose P Therattil



Mr. Abin Johns Raju



Mr. Abraham P A

5. Ms. Krishnapriya S presented a paper titled “Analytical Studies of Vertical Double Gate NTFET” at the IEEE International Conference held on 13th and 14th February 2014 at Karpagam College of Engineering, Coimbatore



Ms. Krishnapriya S

STAFF ACTIVITIES

❖ SEMINARS/WORKSHOPS CONDUCTED

1. Dr. Jose P Therattil, Head, Dept. of ECE along with Dr. Praveen R P, Head, Dept. of EEE & Dr. Anitha Jacob, Assoc. Prof., Dept. of CE conducted a talk on “Research Methodologies” on 16/12/2013 at JECC.
2. Mr. Jinesh K J, Asst. Prof., conducted a introductory workshop session on “Proteus Professional – Electronics Circuit Simulation Tool” for the students of S3 ECE on 02/09/2013.
3. Mr. Jinesh K J, Asst. Prof., conducted “A Hands-on Training Session on Proteus Professional – Electronic Circuit Simulation Tool” at Ilahia College of Engineering, Muvattupuzha on 28/09/2013.
4. Mr. Jinesh K , Asst. Prof., & Mr. Abraham P A, Asst. Prof., handled hands on sessions on “Introduction to Proteus Professional – Electronics Circuit Simulation Tool” & “PCB Fabrication using Toner Transfer Method” respectively as a part of the “Skill Development Programme on PCB Design and Fabrication” organized by IEEE-SB Chapter JECC on 30/08/2013 to 01/09/2013.
5. Mr. Jinesh K J conducted a one day workshop on “PCB Design & Fabrication” for S6 AEI students organized by Applied Electronics Students Association on 24/02/2014.
6. Mr. Jinesh K J conducted a one day workshop on “PCB fabrication” sponsored by ISTE on 21/02/14.

❖ OTHER ACTIVITIES

Ms. Sarika K T, Asst. Prof., was a member of the judging panel of the Paper Presentation contest organized by GEC, Thrissur as part of the Tech Fest Dhyuthi’13 on 12/09/2013.

❖ FDPs/SEMINARS/WORKSHOPS ATTENDED

1. Dr. Jose P Therattil, HOD, attended a “Workshop on Funding Possibilities for Technical Education & Research” on 18/12/2013 at NSS Engineering College, Palakkad.
2. Ms. Anjitha V and Ms. Krishnapriya S, AP, ECE, attended an “Early Career Faculty Development Programme” organized by IEEE-GOLD at Vidya Academy of Science and Technology, Thalakkottukara from 04/11/2013 to 08/11/2013
3. Faculty Members of the Department attended a talk on ‘How to make difference in personal and professional life’ by Mr. P. R. Chandramohan at Jyothi Engineering College on 16/11/2013
4. Dr. Jose P Therattil, Ms. Sarika K T, Ms. Anjitha V, Ms. Krishnapriya S attended a Faculty Development Programme on 23/11/2013 at Jyothi Engineering College.
5. Ms. Krishnapriya S attended a two day workshop on “Custom IC design using Tanner EDA” from 06/03/2014 to 07/03/2014 at GEC Thrissur
6. Ms. Shiny M I attended QIP Sponsored STTP on “Hands on Training on FPGA based Embedded System Design” from 17/03/2014 to 21/03/2014 at GEC Thrissur.
- 7.

STUDENTS’ ACHIEVEMENTS

❖ STUDENTS’ PROJECT PROPOSALS SELECTED FOR “YUVA MASTER MIND” COMPETITION

Proposals of the following projects by students of S7 ECE were selected & provided financial assistance for participation in the “Yuva Master Mind” contest for innovative projects organized by MalayalaManorama News group, Kottayam:

Finger Print based Gender Determination	Meal Assistance Robot
a) Mr. Antony Jacob b) Ms. Mariya Tony c) Ms. NimphaAnto d) Mr. Renil T Vincent e) Ms. Sneha Jose	a) Ms. Anjali Geo K b) Ms. Ann Marie Antony c) Mr. George Sunny d) Mr. Jan Win Sunny e) Ms. RonatAlieceCheriyen

❖ CLASS TOPPERS

S3	S5	S7
1. Ms. GiltaBabu 2. Ms. Anu Maria C J 3. Mr. Vishnu K	1. Mr. Sebastian Joseph 2. Ms. Pooja Varma 3. Ms. Manisha George	1. Ms. Naiji Joseph 2. Ms. Rincy P Nelson 3. Ms. Sneha Jose

SUNNY DIAMOND AWARD WINNER

Ms. Rose Mary John of S8 ECE won the Sunny Diamond Ring for the best student of B.Tech (2010-2014 Batch)



Ms. Rose Mary John

❖ ACHIEVEMENTS IN INTER-COLLEGE TECHNICAL EVENTS

1. Ms. NimphaAnto and Ms. Sneha Jose of S8 ECE won the 1st prize for the paper titled "Finger print based gender classification" in Paper presentation competition held on 19/01/2014 as part of TechfestLanista '14 at Royal College of Engineering & Technology, Akkikavu



Ms. NimphaAnto



Ms. Sneha Jose

2. Ms. Ann Marie Antony and Ms. Rose Mary John of S8 ECE won the 2nd prize for the paper titled "Virtual Instruments Systems in Reality" in Paper presentation competition held on 19/01/2014 as part of TechfestLanista '14 at Royal College of Engineering & Technology, Akkikavu



Ms. Ann Marie Antony



Ms. Rose Mary John

3. Mr. Janwin Sunny, Mr. LidwinCleetus, Mr. Antony Jacob & Mr. George Sunny of S8 ECE secured first prize in "Tricky Tech" conducted as part of PALMARIUS'14 organized by Sahrdaya College of Engineering, Kodakara on 13th February 2014.



Mr. Antony Jacob



Mr. George Sunny



Mr. Janwin Sunny



Mr. LidwinCleetus

❖ **ACHIEVEMENTS IN INTRA-COLLEGE TECHNICAL EVENTS**

1. Ms. Aleesha Santhosh of S5 ECE, participated in the events organized as a part of Dyuthi '13, National Level Multi fest held at GEC, Thrissur on 11/09/2013 to 13/09/2013.
2. Mr. UmeshUnni P & Mr. JinuThankachan of S7 ECE won the 2nd Prize in Hurt Locker event conducted as a part of Dyuthi '13, National Level Multi fest held at GEC, Thrissur on 11/09/2013 to 13/09/2013
3. Mr. Antony Jacob, Ms. Nivia George and Ms. Maria Tony won the 2nd prize for Circuit Designing & Debugging Contest (Hunger Games) conducted as part of Tharang '14 at Jyothi Engineering College.
4. Ms. Kavya Caroline of S4 ECE won the second prize in the debate competition on "Kasturirangan Report" organized by Natura Environmental Forum of Jyothi Engineering College on 18/04/2014.
5. The following students of S4 ECE reached the final round of debate competition on "Kasturirangan Report" organized by Natura Environmental Forum of Jyothi Engineering College on 18/04/2014
 - Ms. Kavya Caroline
 - Mr. Edwin Andrews
 - Mr. Joe Abraham
 - Mr. Vishnu K

❖ **PLACEMENT****INFOSYS****Cognizant Technology Solutions Limited**

UST Global



Ms. Nivia George



Mr. Sijan Thomas



Ms. Sneha Jose



Mr. UmeshUnni P

STUDENTS' ACTIVITIES

❖ ECSA ACTIVITIES

Dr. Gylson Thomas, Principal, inaugurated the ECSA activities 2013-14 on 27/07/2013. A set of competition events such as Problem Solving, Team Work ability & Mock Interview to improve the skills of students were organized as a part of the inauguration. Also, two batches from S7 ECE presented their Mini Projects.

ECSA organized a one day PCB workshop for S6 ECE students on 06/01/2014. The following students of S8 ECE handled the sessions:

- Mr. JinuThankachan
- Ms. Fincy Jose
- Mr. Anoop Francis
- Ms. Sneha Jose
- Mr. Jerin Joseph
- Mr. Alwyn Antony

❖ THARANG '14 ACTIVITIES

Students organized the following events as a part of Tharang Techfest 2014

- Implemented an FM station named 'Beats FM 87.5'
- Last Stand – Task Management event
- Xponica – Project Exhibition
- Hunger Games- Circuit Designing & Debugging Contest
- Drisyam- Short Film competition

❖ SEMINARS / WORKSHOPS /INTERNSHIPS ATTENDED

1. Students from S7, S5 & S3 ECE Batches participated in the 'Robotic Workshop' organized by IEEE Student Branch, Jyothi Engineering College, Cheruthuruthy on 11/09/2013.
2. Ms. Tracy Jose of S7 ECE attended One day Internship Programme conducted by Tata Consultancy Service (TCS) at Info Park, Kochi on 23/11/2013
3. Ms. Sherin Thomas of S7 ECE has successfully completed an intensive training session on Web
4. Development workshop held at Satvika, IEEE Kochi Hub WIE Congress held at College of Engineering, Chengannur on 02/08/2013 to 04/08/2013.
5. Mr.JinuThankachan attended a one day workshop on "Productivity Improvement and Buisness Development" by Department of Industries &Commerce Govt of kerala in association with Natural Institute for Micro,small&Medium Enterprises, Hyderabad at Kochi on 18/02/14
6. TCS conducted one day training programme for shortlisted students of S8 ECE in connection with TCS Campus Recruitment drive 2014 on 05/03/2014
7. Mr. Edwin Andrews of S8 ECE attended two day workshop on "Augmented Reality" organized as part of AZIKSA '14 sponsored by IEEE Student branch Jyothi Engineering College on 07/03/2014 and 08/03/2014.
8. Students of S4 ECE attended "An Expert Talk on Enterpreurship Development"organized by Enterpreurship Development Cell ofJyothi Engineering College on 28/03/2014.

❖ PARTICIPATION IN SOCIAL SERVICE RELATED ACTIVITIES

1. Mr. Razil Ahmed and Mr. Jithin Jose of S6 ECE received Memento and Certification of Appreciation from NSS Cell Trivandrum for implementing 'PUNARJJANI Programme' during the NSS Camp at Varavoor and Ottupara District Govt Hospital from 21/12/2013 to 27/12/2014.

2. The following students participated in Energy Conservation Cycle Rally Programme organized in connection with Tharang' 14 at Thrissur Round on 22/01/2014:
 - Mr. Leo Paul (S6 ECE)
 - Mr. Joe Davis (S4 ECE)
 - Ms. Athiramol K. Thampi (S4 ECE)
 - Ms. Athira Vijayaraman (S4 ECE)
3. Ms. Pooja Varma of S6 ECE participated in One day Social service activity on 19/01/2014 organized by Public Health Centre, Alathoor in connection with Pulse Polio Day.
4. Ms. Aleesha Santhosh of S6 ECE participated in Blood Donation Camp at Valluvanad Hospital Ottapalam on 26/01/2014 as part of social service activity.

❖ INDUSTRIAL VISIT & EDUCATIONAL TOUR

1. 2011-2015 ECE Batch visited FACT, Kochi on 31/01/2014 along with Mr. Abraham P A, Asst. Professor & Ms. Shiny M I, Asst. Professor.
2. 2012-2016 ECE Batch students visited Diesel Power Plant, Calicut on 30/01/2014 and ACE Components and Electricals, Mysore on 31/01/2014 as a part of their Educational Tour to Mysore and Coorg between 30/01/2014-01/02/2014 along with Ms. Nisha Mary P, Asst. Prof. and Mr. Abin Johns Raju, Asst. Prof.
3. 2010-2014 ECE Batch students visited National Thermal Power Corporation Limited Delhi on 29/01/2014 and Subros Limited Delhi on 30/01/2014 as a part of their Educational Tour to Delhi during 25/01/2014 to 02/02/2014 along with Ms. Bindhu K. Rajan, Asst. Prof. and Mr. Jinesh K J, Asst. Prof.

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.