

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

NEWS LETTER

Volume-01 , September 2014

JYOTHI ENGINEERING COLLEGE, CHERUTHURUTHY, THRISSUR

Department of EEE

Become a Centre of Excellence in Electrical and Electronics Engineering through high quality technical education with emphasis on Holistic Excellence

Department of EEE

Cultivate Ethical Professionalism through Value Based Quality Education so as to equip the students with appropriate skills for a meaningful career and holistic excellence and promote innovative engineering ideas for the benefit of the society

PROGRAMME EDUCATIONAL OBJECTIVES

O1: Graduates shall have a good foundation in the fundamental and practical aspects of Mathematics and Engineering Sciences so as to build successful and enriching careers in the field of Electrical Engineering and allied areas.

O2: Graduates shall learn and adapt themselves to the latest technological developments in the field of Electrical & Electronics Engineering which will in turn motivate them to excel in their domains and shall pursue higher education and research.

PEO 1: Graduates shall have professional ethics and good communication ability along with entrepreneurial skills and leadership skills, so that they can succeed in multidisciplinary and diverse fields.

PROGRAMME OUTCOMES

-Ability to apply knowledge of mathematics, science and engineering in the field of electrical and electronics engineering.

-Ability to design and conduct experiments, analyze and interpret data and results in electrical and electronics engineering.

-Ability to design electrical and electronics 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.

-Ability to work individually as well as in multidisciplinary teams as a member or as a leader to accomplish the common goal.

-Ability to identify, analyze, formulate, and solve engineering problems. Knowledge of professional and ethical responsibility.

-Ability to communicate effectively in any area of their field to the industry, fellow beings and society.

-Broad knowledge necessary to understand the impact of engineering solutions on individuals, organizations and society.

-Ability to engage in life-long learning to update their knowledge to keep pace with changes caused by dynamic nature of engineering field.

-Awareness of the contemporary issues that help to integrate advanced and sustainable solutions in the user environment.

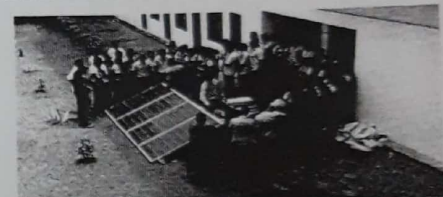
-Ability to use the techniques, skills, and modern engineering tools, software and equipment to analyse and model complex engineering solutions.

ISTE- SRM Sponsored Short Term Training Programme

The SRM Sponsored Short Term Training Programme on "Power System Control Using Power Electronics" was conducted in the Department of EEE from 16th-21st June 2014. Ms. Reshma Raj, Ms. Della David, Ms. Soumya C, Ms. Aswathy Rajan, Ms. Anjini G and Ms. Aathira K. V were the in house participants for the same.



As a part of ISTE-SRM sponsored STTP, a field visit to Kanjikode Wind Farm was organized. The participants of the STTP were accompanied by Dr. Praveen R. P (HOD, EEE), Mr. Vineeth V. V, Ms. Anu Sunny, Mr. Anees V. P and Mr. Akhil A Balakrishnan.



Live Solar Inverter Demo by Sun Mirotech Ltd. as part ISTE sponsored STTP-June 2014

M.Tech 3rd Batch-Inauguration



AEEE-2014

The activities of AEEE for the year 2014-15 was inaugurated by K Geetha, Principal, NSS Engineering College on 26th Aug 2014 and interacted with PG and UG students on the topic "Association Activities- To improve Soft and Hard skills".



Mrs. Reshma Raj, AP, EEE Dept. was given the additional charge of HOD with effect from 8/8/2014.



Mrs. Anu Sunny, AP, EEE Dept. was given the charge of PG Coordinator, M.Tech in Power Electronics with effect from 8/8/14.



Orientation program for M.Tech 1st year Students (2014 Adm. Batch)



6 students and 3 Faculty members including Dr. Praveen R. P (Prof and HOD), Ms. Reshma Raj, C (PG Coordinator) and Ms. Della David (PG Advisor) attended All Kerala Science Congress at Wayanad from 28-30 January 2014. 14 Technical papers (9 Oral and 5 Poster) on Power Electronics were presented during the

2 day workshop on FPGA Based Hardware Implementation was conducted for PG students on 25th and 26th March 2014 by the Dept. of EEE under the auspices of AEEE. Resource Person: Prof. Lyla. B. Das, NIT Calicut



ISTE JECC Chapter sponsored workshop on "MATLAB/Simulink- Application to Electrical Engineering" was organized on 12th and 13th March 2014 under the Department of EEE. Resource Persons: Mr. Jinu X. T, HOD, EEE, IES College of Engineering, Chittilappilly. Ms. Aislin Elisha George, AP, EEE Dept., JECC. Mr. Akhil A Balakrishnan, AP, EEE Dept., JECC. Mr. Kapil Das, AP, AEI Dept., JECC.

Faculty Achievements

> As part of Industry Institution Interaction, the department has signed MOU with Hykon Thiruvananthapuram Technologies, Bangalore.

> Jyothi Engineering College, was the 1st number of Participants (13 students) in the National Conference, held on 20th and 21st March 2014 at CMS College of Engineering, Coimbatore.

University Results

1st Semester Result
2nd Semester
3rd Semester
4th Semester



Mr. Anees V. P. AP, EEE Dept. got admission for PhD Program at IIT Mumbai. He has been relieved from the college on 25/07/2014 to join at IIT Mumbai.



Mr. Prasad C. AP, EEE Dept. qualified Gate 2014.



Dr. Praveen R. P., acted as the chair for the session on 'Electrical Machines' for the IEEE International Conference on Magnetics, Machines and Drives organized by the AmalJyothi College of Engineering, Kanjirappilly.



Mr. Anoop M. P. (S8, EEE) qualified GATE 2014.



Mr. Jishnu R and Ms. Anagha Philip, S8 EEE (2010 Admn. Batch) secured 1st Prize in the District Level IEEE-KSEB Paper Presentation Contest on 31st January 2014 held at Vidya Academy of Science and Technology.



Mr. Akshay. P. Pai, Mr. Midhun K. S, Mr. Sujinder. S. Kumar, Ms. Anagha Philip Antony and Ms. ReshmaElia Joseph (S8, EEE) presented a paper on, "Senseless Direct Torque Control of BLDC Motors" in the National Conference on Electronics, Control and Power Engineering held at CMS College of Engineering, Coimbatore on 7th March 2014. They also secured the First Prize for the presentation

S8 Results (2010 Admn.)

Toppers:



Amritha Paul (9.38)



Anagha Philip (9.2)



Dina M Anto (8.32)



Rosmy Varghese (9.3)



Smiya Johnson (9.04)



Aquin Ouseph (8.32)

S5 Results (2011 Admn.)

Toppers:

S3 Results (2012 Admn.)

Toppers:



Aruna K (9.41)



Nimisha Muraliedharan (9.02)



Gayathri (8.93)



Rincy Lonappan (9.0)



Hima Sajeevan (8.5)

1st Sem. M.Tech (2013 Admn.)

Toppers:

Student's Achievements

2 Technical papers pertaining to M. Tech project of by Ms. Sruthi C. K and Ms. Megha. S (PGS3 Power Electronics) were presented in the the 8th IEEE International Conference on Electrical Energy Systems (ICEES 2014) held at SSN College of Engineering, Chennai, India during 7-9th January 2014.

13 Technical papers of M. Tech PGS4 students were presented for the IEEE Conference ICCPT held at Nooral Islam College of Engineering, Kumarakovil, Kannuramari on 20-21st March 2014.

Ms. Chinchu Jose and Ms. Agnes Lawrence, PGS4, Power Electronics presented their technical papers in the International Conference on, "Computational Systems in Engineering and Technology", held on 7th and 8th March 2014.

Ms. Amrutha Paul, Ms. Anju U.D, Mr. Anoop M.P, Ms. Merlin Rajan Pallan And Ms. Roshna N.K (2010 Admission), EEE and Mrs. Anu Sunny, AP, EEE published a paper entitled, "Effects of two phase traction loading on a Three phase power transformer", for the IEEE International Conference on Magnetics, Machines and Drives organized by the AmalJyothi College of Engineering, Kanjirappilly.

Ms. Anagha Philip Antony, Mr. Jomin K. P, Mr. Rejin George and Mr. Febin Jacob (S8, EEE) presented a paper on, "Green Energy Harvesting Using Piezoelectric Units ", in the National Conference on Energy and Environment Management held at NSS College of Engineering, Palakkad. On 7th March 2014.

Mr. Jerry Francis, Mr. Arun.C. Johnson, Mr. Avin Varghese, Ms. Manisha Emmanuel and Ms. Sonima Gabriel (S8, EEE) presented a paper on, "Efficient Ring System Using CAN Bus" in the National Conference on Electronics, Control and Power Engineering held at CMS College of Engineering, Coimbatore on 7th March 2014.



Mr. MidhunGopinath, Mr. Rejin George, Mr.Nithin T. R, Mr. KiranDandus and Mr. Francis Sunny (S8, EEE) presented a paper on, "Isolated Micro Converter" in the National Conference on Electronics, Control and Power Engineering held at CMS College of Engineering, Coimbatore on 7th March 2014.



Mrs. Reshma Raj.C, AP EEE attended the Branch Counselors Congress of IEEE Kerala Section held at hotel Abad Plaza, Ernakulam on 26th April 2014. The meeting was followed by a workshop on "Industry Institute Interaction".



Ms. Ashini Elisa George, AP, EEE attended An ISTE-SRM sponsored STTP on, "Advanced Control System Design and Applications ", conducted by the Department of EEE, Mar Baselious College of Engineering and Technology, TVM from 9th- 14th June 2014. she was relieved from her duties on 22/08/2014.



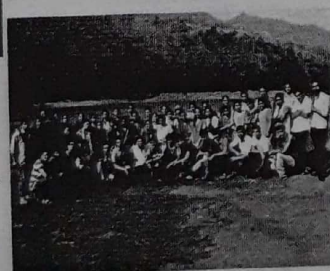
Mr. Akhil A Balakrishnan, AP, EEE attended a 5 day STTP on, "LabVIEW Programming for Engineering Research", conducted by the Department of EEE, Govt. College of Engineering, Kannur from 19th 23rd May 2014.

Mr. Akhil A Balakrishnan, AP, EEE attended a webinar organized by IUCEE (Indo US Collaboration for Engineering Education) Virtual Academy on, "Introducing LabVIEW in Engineering Education".

Mr. Vineeth V.V and Mr. Akhil A Balakrishnan, AP, EEE attended a seminar organized by Mathworks on, "Teaching Control System concept using Matlab and Simulink " on 6th June 2014. Session was handled by Mr. VivekRaju, Application Engineering, Mathworks.



44 students of S6 EEE (2011 Adm.) accompanied by 2 Faculty members, Mr. Vineeth V. V and Ms. Sreethumol M. V went for a one day Industrial Visit as a part of their curriculum on 1.03.14.
Industry Visited: Philips Carbon Ltd. Cochin



S4 (2012 Adm.) Industrial Tour.

S8 (2010 Adm.) Industrial Tour.



Faculty Achievements

- a) First 'Dr. Vikram Sarabhai Memorial State level Award' instituted by Shastra Samskarika Charchavedi, Kodungalloor was presented to Prof. P. V. Abdul Hameed, HOD, EEE on 26/9/10 by Adv. Thomas Unniyadan (MLA) in honor of his contributions in the field of Technical Education.
- b) Mr. Praveen R.P has been awarded PhD by Cochin University. He carried out his research work at School of Engineering, CUSAT and ISRO inertial systems unit which was a live project of ISRO during the period 2008-2012. Topic: Design, Analysis & Realization of Zero-Cogging Permanent Magnet Brushless DC Motor for Space Craft Applications.
- c) Mr. Praveen R.P is the reviewer of "Electric Power Components and Systems" journal of Taylor and Francis. He has also reviewed for various International Conferences including International Conference on Electrical Machines.
- d) Mr. Praveen R.P, AP, EEE was the Young Scientist Award Nominee at the 20th Kerala Science Congress.
- e) Mr. Praveen R.P and Mr. Kannan M secured the Prize Paper Awards at the National Conference in Technological Trends conducted at College of Engineering, Thiruvananthapuram.
- f) Mr. Praveen R.P and Mr. Kannan M secured First Rank in M. Tech (Electrical Machines and Power Systems respectively) degree Examination conducted by Kerala University during 2007.
- g) Mr. Praveen R.P., AP, EEE published a total of 5 International Journal Papers including that in IEEE Transactions on Industrial Electronics which has got the highest Impact Factor among Electrical Engineering Journals. He has also got 5 papers published in IEEE Conference Proceedings which is available via IEEE Explorer.
- h) Mrs. Jitha Joseph, AP, EEE secured 3rd rank in M. Tech (Power Electronics & Drive) Degree Examination conducted by Karunya University (Deemed) during April 2011.
- i) Ms. Aathira K.V, AP, EEE secured 3rd rank in M. Tech (Industrial Drives and Control) Degree Examination conducted by M. G University during September 2011.
- j) Ms. Aathira K.V, AP, EEE presented and published a paper on "A soft switching boost converter with H bridge auxiliary resonant circuit" at International conference on Recent Innovations in Technology (ICRIT) by GRIT, Kottayam on 13th January 2012.
- k) Ms Renjini G presented and published a paper on "Single Phase Matrix Converter For Input Power Factor Improvement" at International conference on Recent Innovations in Technology (ICRIT) by GRIT, Kottayam on 13th January 2012.
- l) Ms Aathira K.V received an 'Outstanding student volunteer Award' from IEEE IAS SB chapter of RIT Kottayam for her contribution to the IEEE IES SB chapter during the year 2010-2011
- m) Ms. Aathira K.V., AP, EEE won 3rd prize in the IAS CMD Student Master Thesis Contest Award 2012.

Agnipath - The Robowar



Agnipath 2013 was conducted on 6/3/13 under the auspices of AEEE as a part of Tharang v.2.0. Total 18 teams from different engineering colleges competed in the events, Robowar and Line Follower.

Social Service and Community Development Programme



1. 88 EEE students along with two staff members (Prasas C and Soumya C) visited the Holy Family Lower Primary School, Akamalavaram, Malampuzha, Palakkad for their Social Service Camp on 6/12/12 and 7/12/12.
2. Social service and community development programme was held at Vallathol Nagar Panchayath on 11/12/12 and 12/12/12

Industry Institution Interaction



All 1st batch M.Tech students accompanied by 4 members of faculty, viz. Prof.P.V.Abdul Hameed, HOD Mr. Jenson, Ms. Della David and Ms. Jitha Joseph visited M/S Hykon, Kuttanellloor on 28/2/13 and interacted with Mr. Christo George, CMD of the factory. Accordingly following decisions were taken.

- a) Provisional Permission to impart Industrial Training to PG students during vacation.
- b) To work along with TBI so as to encourage the R&D and Consultation activities of the members of faculty.
- c) To boost the placement offers to both PG and UG students.

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Students Achievements

- a) P. Krishnakumar Sivadas (2006-10 Batch) won first prize in the seminar on 'Global Warming - Post Copenhagen Challenges to Kerala Power Sector' conducted district level under the auspices of KSEB Engineers Association on 7th April 2010.
 - b) An Album 'Beyond Modules' created by 2008 Admission Batch, was released by 'Bhramaram' fame Kumari. Purnasree on 8/01/10. Msgr. Raphael Vadakkan, Former Manager, Dr. U. Lazar John, Former Principal, Er. Thomas Mathew, Administrator members of faculty of the college and students were present in the function. Album two Awards for Best Playback Singer (Female) and Best Cameraman presented by All Kerala Video Album Federation to 2008 Admission Batch students for their Album 'Beyond Modules'.
 - c) Ms. Greeshma Chandran (2008 - 12 Batch) has won third prize for the paper presentation contest held at Vidya Academy of Science & Technology, Thrissur on 12th Oct 2010 in connection with the one day programme for observing 'International Day for Ozone layer protection 2010' sponsored by Kerala State Council for Science, Technology & Environment, Trivandrum.
 - d) Ms. Greeshma Chandran (2008 - 12 Batch) won first prize in the seminar on Nano Technology conducted on a district level competition under the auspices of KSEB Engineers association on 23rd Feb. 2011. Ms. Helma Mani (2008 - 12 Batch) won third prize for the same event.
 - e) 'Wireless energy transfer' and 'Solar Tracking', projects from EEE Department got first and second prize respectively in the Project Exhibition organized by IEEE held on 29/7/11. Wireless Energy Transfer done by: Mr. Ashis R, Mr. T. P. Vishnu, Mr. Ajeesh K P & Ms. Riya Philip. Solar Tracking done by: Ms. Suji U Menon, Mr. Arun Bumi, Mr. Christo Mathew & Ms. Gayathri Raja (2008 - 12 Batch Students)
 - f) Ms Greeshma Chandran and Ms Minu Joy (2008 - 12 Batch) won second prize in paper presentation in INSPIRO'11 conducted by IT Dept. of JEEC.
 - g) Mr. Manu Mohandas and Ms. Niya Stanley (2008 - 12 Batch) won Second prize in the event 'Movie Freak' of INSPIRO'11.
 - h) Mr. Nelwin Babu, Mr. Jayesh C, Thomas, Mr. Jessal K J, Mr. Fazil K (2009 - 13 Batch) won the Second prize in the event ROBO WAR of AZURE'12 a National Level Techno Cultural Managerial Festival held on 26th, 27th and 28th January 2012 at Amal Jyothi Engineering college, Kottayam.
 - i) Jyothi Engineering College, Thrissur has won the CONSOLATION PRIZE in the NATIONAL ENERGY AUDIT COMPETITION for engineering college students organised by ENERGY CONSERVATION SOCIETY (ECS). Mr. Martin Joseph, Ms. Meera P Nair, Ms. Martina Johnson, Mr. Anand M Asoka, (2008 - 12 Batch) Participated in the Competition representing the college.
 - j) Group of students consisting of Mr. Ashis R, Ms. Helma Mary Muttath, Mr. Ajeesh K P, Mr. Nideesh K Chandran and Ms. Sreedevi C R, etc of the final year have been selected to present their paper on "A NOVEL FUZZY LOGIC CONTROLLER BASED AUTOMATIC CAUTION ORDER FOR INDIAN RAILWAYS" at an IEEE conferece which was held on August 24th, 2012, in a college at Chennai.
 - k) Hasna V K and Savithry T S, S8 EEE (2009 Adm.) students presented a paper titled "Intentional Islanding Operations for Distributed Power Generation" on 'Grid Connectivity of Renewable Energy - Issues and Solutions', a State Level Seminar Competition organized by the KSEB Engineers Association with the support of IEEE Power and Energy Society Kerala Chapter held on 26/3/13. They won the Award on the title of "Best Implementable and Innovative Idea" in the seminar competition organized by KSEB & IEEE PES Chapter. The above certificate and the award will be distributed on the occasion of the annual General Body Meeting of KSEB Engineers Association scheduled to be conducted on 19th May 2013 at Fine Arts Hall, Ernakulam.
 - l) Savithry T.S, Hasna V.K and Amrutha Mohan of S8 EEE has won 2nd prize for Project Exotica in the Technical Fest Panchajanya 2013 held at Sreepathy Institute of Management and Technology, Vavannoor during 1st and 2nd Feb 2013.
 - m) Mr. Jishnu R, S6 EEE has been selected as the Microsoft Student Partner to represent Jyothi Engineering College for the academic year 2012-2013.
 - n) Chacko J Chembukkavu, secured 3rd prize in written Quiz Competition held in connection with BSNL day/week celebration for the year 2012
- Chacko J Chembukkavu, achieved 3rd place in ASTHRA as part of Tharang 12 v.2.0 on 10/11/12.

Industrial Visits



41 students of S8 EEE (2009 Adm) accompanied by 2 members of faculty (Mr. Prasad C and Ms. Liza Baby) and a parent went on an Industrial tour to Bangalore and Hyderabad from 17/1/13 to 23/1/13.

Industries Visited : HAL Bangalore on 18/01/2013 and CMET Hyderabad on 21/01/13



44 Students of S4 EEE (2011 Adm) accompanied by 2 members of faculty (Mr. Vineeth V V and Ms. Sreethumol M V) went on an Industrial Tour to Idukki (3 days) from 23/1/13 to 25/1/13. Industries Visited : Viyyur Sub Station and Peringalkuthu Power Station.

59 students of S6 EEE (2010 Adm) accompanied by 2 members of faculty (Mr. Vineeth V V and Mrs. Anu Sunny) went on an Industrial Tour (1 day) to Peringalkuthu Power Station on 23/2/13.

Faculty Relieved/Posted

Mr. Kannan M, AP EEE Dept. was relieved from his duties of the college w.e.f 11/12/12 (AN).

Mrs. Saritha N was appointed as Junior Instructor in EEE Dept. joined on 5/3/13 and allotted to take charge of the PG Power Electronics Lab.