

2017  
JUNE

# DEPT. NEWS LETTER

DEPARTMENT OF ELECTRICAL & ELECTRONICS  
ENGINEERING  
JYOTHI ENGINEERING COLLEGE, CHERUTHURUTHY



## Vision

*To become a centre of excellence in electrical and electronics engineering through high quality technical education with emphasis on holistic excellence*

## Mission

*To inculcate ethical professionalism through value based quality education as to equip the students with appropriate skills for a meaningful career and holistic excellence and promote creative engineering ideas for the benefit of the society*

## Programme Educational Objectives

- 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.
- 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
- 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.

## Program specific outcomes

Graduates possess

- 1) Ability to have good foundation in theoretical and practical aspects of Electrical & Electronics Engineering.
- 2) Ability to model, analyze, design and realize physical systems, components or processes thereby adapt themselves to the latest research and developments in the field of Electrical & Electronics Engineering.
- 3) Ability to communicate and work professionally as well as take up entrepreneurial endeavors in the field of Electrical Engineering and allied areas for the benefit of the society.

## Programme Outcomes

- Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



**Jyothi Engineering College**  
NAAC Accredited college with A++ Accredited programmes

Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University  
A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR

## FACULTY ACHIEVEMENTS

1. Mr. Jenson Jose, AP EEE and Ms. Renjini G, AP, EEE qualified PhD entrance examination under KTU
2. Mr. Shijoh V (AP, EEE) & Dr. Jarin T (Assoc. Prof., EEE) published a research paper "Renewable Power Centred Intelligent Power Supervision System for Households" in the Middle East Journal of Scientific Research.
3. Mr. Shijoh V (AP, EEE) & Dr. Jarin T (Assoc. Prof., EEE) published a research paper "Sustentation of Energy by a Contemporary GSM Based Prepaid Energy Meter" in the Middle East Journal of Scientific Research.
4. Dr. Jarin T (Assoc. Prof., EEE) published a research paper "Critical Investigation of Minimum Field Conductor for Overhead Transmission Lines" in the Middle East Journal of Scientific Research.
5. Mr. Akhil A Balakrishnan (AP, EEE), Mr. Shijoh V (AP, EEE) & Dr. Jarin T (Assoc. Prof., EEE) published a research paper "Sustentation of Energy by a Contemporary GSM Based Prepaid Energy Meter" in the Middle East Journal of Scientific Research
6. Dr. Jarin T (Assoc. Prof., EEE) chaired a session in the International Conference on "Emerging Trends In Engineering & Technology" conducted by Arunachala College of Engineering for Women during 9th & 10th December 2016.
7. Mr. Akhil A Balakrishnan, AP, EEE qualified GATE' 17
8. Mr. Akhil A Balakrishnan, AP, EEE has acted as a Resource person for the one day Workshop on "Technical Document Preparation with LATEX" organised by Department of Electrical & Electronics Engineering, JECC in association with Institution of Engineers (India) on 1st March 2017.
9. Mr. Alister Polwin and Mr. Davis K T, Trade Instructors, EEE department achieved bonafide trainer certificate of the course titled "Assistant Electrician" as a part of DAT scheme of ASAP conducted by Govt. of Kerala.
10. Ms. Athira K V, AP, EEE published a paper titled "Non – isolated bidirectional DC – DC Converter for hybrid power systems" in the National Conference on "Energy and Environment Management" – EEM 2017 during 16 – 17 March, 2017 organized by Dept. of EEE, NSS College of Engineering, Palakkad, in association with ISTE.
11. Dr. Jarin T (Assoc. Prof., EEE) published a research paper "Enhancement of Efficiency in Nanocoated Induction Motor" in the World Applied Sciences Journal Page Nos: 325 – 329, 2017.
12. Mr. Shijoh V (AP, EEE) attended a technology workshop on test and measurement system during 21/04/2017 to 22/04/2017 at NIT Calicut
13. Mr. Akhil A Balakrishnan, AP, EEE qualified GATE' 17
14. Mr. Akhil A Balakrishnan, AP, EEE has acted as a Resource person for the one day Workshop on "Technical Document Preparation with LATEX" organised by Department of Electrical & Electronics Engineering, JECC in association with Institution of Engineers (India) on 1st March 2017.
15. Mr. Alister Polwin and Mr. Davis K T, Trade Instructors, EEE department achieved bonafide trainer certificate of the course titled "Assistant Electrician" as a part of DAT scheme of ASAP conducted by Govt. of Kerala.
16. Ms. Athira K V, AP, EEE published a paper titled "Non – isolated bidirectional DC – DC Converter for hybrid power systems" in the National Conference on "Energy and Environment Management" – EEM 2017 during 16 – 17 March, 2017 organized by Dept. of EEE, NSS College of Engineering, Palakkad, in association with ISTE.
17. Dr. Jarin T (Assoc. Prof., EEE) published a research paper "Enhancement of Efficiency in Nanocoated Induction Motor" in the World Applied Sciences Journal Page Nos: 325 – 329, 2017.

# STUDENT ACHIEVEMENTS

1. Ms. Steffy Akkara and Ms. Smruthi Krishna K (S8 EEE – 2013 Adm) presented a paper on “ Power System Harmonics – Sources ,issues and mitigation in the district level seminar competition organised by the KSEB Engineers Association with the support of IEEE Power and Energy Society Kerala Chapter held on 07/01/2017 and secured first position.
2. The project titled “Brain Sticher Using Biochip” by the S8 EEE (2013 ADM) students Haritha A P, Milner Paul, Paulson M J and Sisira P, guided by Dr.Jarin T received a grand of 25000/- from the CERD, KTU campus, TVM.
3. Ms. Aiswarya Raj (S2 PG, 2016 Adm) published a paper “Sustentation of Energy by a Contemporary GSM Based Prepaid Energy eter” in the Middle East Journal of Scientific Research.
4. Ms. K P Sherin (S2 PG, 2016 Adm) published a paper “Renewable Power Centred Intelligent Power Supervision System for Households” in the Middle East Journal of Scientific Research
5. Ms. Stephy Akkara(S8 EEE – 2013 Adm) received the Sunny Diamond Ring Award for being the Best outgoing Student of the College.
6. Ms. Stephy Akkara(S8 EEE – 2013 Adm) received the Litto Peter Cash Prize for being the Best outgoing Student of the EEE Department.
7. Mr. Joffy Joseph, Mr. Anil A N, Mr. Clint Paul, Ms. Christy Rose and Ms. Rini Federic of S8 EEE ( 2013 Adm) under the guidance of Mr.Shijoh V , AP, EEE proposed and successfully implemented a project titled “ Smart Vehicle Security System for Ensuring the Non – Violation of Traffic Rules by Drivers” so that the rate of accidents can considerably be reduced
8. Ms. Sumayya Thasneem, S6 EEE (2014 Adm) got certificate of proficiency for secured the first place in the 3rd semester B.tech Examination of Calicut university held in 2016.
9. Ms. Sreelakshmi P N , S4 EEE (2015 Adm) got certificate of proficiency for secured the first place in the 2nd semester B.tech Examination of APJ Abdul Kalam Technological University held in 2016.
10. Ms. Jismi Vincent , S4 M.Tech PE got certificate of proficiency for secured the first place in the 2nd semester M.tech Examination of APJ Abdul Kalam Technological University held in 2016
11. The project titled “Fire Mitigation System for Household Fuzzy Fire Extinguisher” by the S8 EEE (2013 ADM) students Ms. Athira Das K, Ms. Haritha K.K, Mr. Joyal Paul, Mr.Tony J Vadakkan, Mr. Vishnu Saseendran got 2nd Prize for “SRISHTI” project competition conducted as a part of Tharang 17 on 08/03/2017 at JECC
12. Ms. Arathi P Nath (S8 EEE – 2013 Adm) received an endowment for being the best student in Economics and ( Grade – S) and got certificate of proficiency for secured the first place in the 8th semester B.tech Examination of Calicut university held in 2016.
13. Ms. Anjali S, S8 EEE got placed in Amazon at a placement drive held at Rajagiri School of Engineering, Ernakulam
14. The project titled “Tongue driven wheel chair ” by the S8 EEE (2013 ADM) students Ms. Nimitha R Shenay, Mr. Deepak Vijayan, Mr. Besto ,Mr. Anto P K, Mr.Jackson Xavior guided by Ms. Anu Sunny (AP,EEE) has been selected for exhibiting in the Jyothi Pavilion of Thrissur pooram exhibition
15. Ms. Stephy Akkara(S8 EEE – 2013 Adm) received the Litto Peter Cash Prize for being the Best outgoing Student of the EEE Department
16. Ms. Stephy Akkara(S8 EEE – 2013 Adm) received the Sunny Diamond Ring Award for being the Best outgoing Student of the College
17. Ms. Arathi P Nath (S8 EEE – 2013 Adm) received an endowment for being the best student in Economics and ( Grade – S) and got certificate of proficiency for secured the first place in the 8th semester B.tech Examination of Calicut university held in 2016
18. Ms. Sumayya Thasneem, S6 EEE (2014 Adm) got certificate of proficiency for secured the first place in the 3rd semester B.tech Examination of Calicut university held in 2016
19. Ms. Sreelakshmi P N , S4 EEE (2015 Adm) got certificate of proficiency for secured the first place in the 2nd semester B.tech Examination of APJ Abdul Kalam Technological University held in 2016.
- 20 Ms. Jismi Vincent , S4 M.Tech PE got certificate of proficiency for secured the first place in the 2nd semester M.tech Examination of APJ Abdul Kalam Technological University held in 2016
21. Mr. Joffy Joseph, Mr. Anil A N, Mr. Clint Paul, Ms. Christy Rose and Ms. Rini Federic of S8 EEE ( 2013 Adm) under the guidance of Mr.Shijoh V , AP, EEE proposed and successfully implemented a project titled “ Smart Vehicle Security System for Ensuring the Non – Violation of Traffic Rules by Drivers” so that the rate of accidents can considerably be reduced
22. The project titled “Fire Mitigation System for Household Fuzzy Fire Extinguisher” by the S8 EEE (2013 ADM) students Ms. Athira Das K, Ms. Haritha K.K, Mr. Joyal Paul, Mr.Tony J Vadakkan, Mr. Vishnu Saseendran got 2nd Prize for “SRISHTI” project competition conducted as a part of Tharang 17 on 08/03/2017 at JECC.
23. Ms. Jismi Vincent (S4 M.TECH PE) & Ms. Aathira K V (AP,EEE) published a a research paper titled on “ Non – isolated Bidirectional DC – DC Converter for PV Hybrid Power Systems in a National Conference on Energy and Environment Management held at NSS Palakkad during 16th & 17th March 2017
24. Ms. Tania Augustine (S4 M.TECH PE), Mr. Jenson Jose(AP,EEE) & Ms. Aswathy Rajan (AP,EEE) published a a research paper titled on “ Phase SHIFT and Duty Cycle Control of Interleaved Boost Three Port Converter with Multiplier Rectifier” in the ICCPCT - 2017 held at Baseliros Mathews II College of Engineering , Kollam during 20th & 21st April 2017.
25. Ms. Jismi Vincent (S4 M.TECH PE) & Ms. Aathira K V (AP,EEE) published a research paper titled on “ Improved non – isolated Bidirectional DC – DC Converter with High Voltage Gain for PV Hybrid Power Systems in the ICCPCT - 2017 held at Baseliros Mathews II College of Engineering , Kollam during 20th & 21st April 2017.

# MAJOR EVENTS

1. Department of EEE organized a 5 days STTP on "Research Methodology" in association with ISTE from 11/01/2017 to 15/01/2017. Dr. C Krishna Mohan, Prof. IIT Hyderabad inaugurated the function. Fr. Roy Joseph Vadakkan, Asst. Manager Academics & Administration presided the function. Special address was given by Dr. K K Babu, Principal, JECC. Dr. Sunitha NIT Calicut, Dr. Arunachala Perumal S A Engg College, Chennai, Dr. T D Subash IEEE Madras Section Photonics Chairman handled various sections.

2. PMKVY Assistant Electrician course was inaugurated on 20/01/2017 by Msgr. Thomas Kakkassery, Manager JECC. Dr. K K Babu, Principal, JECC presided the function. Mr. Johny Manichira, Panchayath President Panjal and Mrs. Padmaja, Panchayath President Vallathol Nagar attended the function as a guest of honour. The certificate of ASAP – Asst. Electrician course was distributed by Manager, Principal and Panchayath Presidents. Around 20 students collected the certificates.

3. An expert talk was delivered to S7 EEE (2014 Adm) students on "Microgrid and Renewable Energy Systems" by Dr. Kumaravel S, AP, EEE NIT Calicut on 29/06/2017.

## S2 University Examinations (2015 Admission Batch)



Ms. Sreelekshmi P N  
SGPA 9.22



Ms. Bhavya Haridas  
SGPA 9.11



Ms. Maria Rose J  
SGPA 9.07

## S4 University Examinations (2014 Admission Batch)



Ms. Sumayya Thasneem  
SGPA 9.36



Ms. Veena P  
SGPA 9.21



Ms. Anjali Ashok  
SGPA 9.00

## S6 University Examinations (2013 Admission Batch )



Ms. Arathi P. Nath  
SGPA 9.41



Ms. Anu Thomas  
SGPA 9.07



Mr. Paulson M J  
SGPA 8.63

## S8 University Examinations (2012 Admission Batch)



Ms. Aruna K  
SGPA 9.73



Ms. Gayathri P  
SGPA 8.84



Ms. Nimisha Muraleedharan  
SGPA 8.89

## S2 M.Tech University Examinations (2015 Admission Batch )



Ms. Jismi Vincent  
SGPA 8.96



Ms. Tania Augustine  
SGPA 7.68

Department of EEE organized a 5 days STTP on “Research Methodology” in association with ISTE from 11//01/2017 to 15//01/2017. Dr. C Krishna Mohan, Prof. IIT Hyderabad inaugurated the function.



Ms. Renjini G, AP, EEE relieved from her duties on 31/02/2017 on her request



Ms. Renjini G

PMKVY Assistant Electrician course was inaugurated on 20/01/2017 by Msgr. Thomas Kakkassery, Manager JECC. Dr. K K Babu, Principal, JECC presided the function .Mr. Johny Manichira, Panchayath President Panjal and Mrs. Padmaja, Panchayath President Vallathol Nagar was attended the function as a guest of honor.



Ms. Arathi P Nath ( S8 EEE - 2013 Adm) got placed in Speridian Technologies.



Ms. Arathi P. Nath

Ms. Anjali S ( S8 EEE - 2013 Adm) got placed in Amazon at a placement drive held at Rajagiri School of Engineering, Ernakulam



Ms. Anjali S

Ms. Stephy Akkara ( S8 EEE - 2013 Adm) got placed in VEE Technologies, in the campus recruitment drive held on 5th January 2017



Ms. Stephy Akkara