

14. Mr. Justin John S4 M.Tech PE & Mr.Jenson Jose, AP, EEE published a paper “A New Three Phase Step up Multilevel Inverter Topology for Renewable Energy Applications” in the proceedings of international conference on Electrical, Electronics and Optimization Techniques (ICEEOT) 2016 with IEEE at DMJ College of Engineering, Chennai on 3rd to 5th March 2016.

15. Ms. Liji K K, M.Tech PE & Ms. Soumya C , AP, EEE has presented a paper entitled “Ripple Current Reduction Technique of DC to DC Converter with One Cycle Control in IEEE sponsored 3rd International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS'16) held on 17th & 18th March 2016 organized by Department of Electronics and Communication Engineering, Karpagam College of Engineering , Coimbatore.

16. Ms. Sangeetha K S4 M.Tech PE & Mr. Akhil A Balakrishnan, AP, EEE published a paper “The Closed Loop Control of A Switched Coupled Inductor DC-DC Step-Up Converter By Using a Voltage Lift Network for Micro Source Applications ” in the proceedings of international conference on Electrical, Electronics and Optimization Techniques (ICEEOT) 2016 with IEEE at DMJ College of Engineering, Chennai on 3rd to 5th March 2016.

17. Ms. Mariya T Kuriakose S4 M.Tech PE & Ms.Aswathy Rajan, AP, EEE published a paper “Closed loop Control of ZCS Interleaved High Step Up Converter for Sustainable Energy Applications” in the proceedings of international conference on Electrical, Electronics and Optimization Techniques (ICEEOT) 2016 with IEEE at DMJ College of Engineering, Chennai on 3rd to 5th March 2016.

18. Ms. Sonima Gabriel C G S4 M.Tech PE & Ms. Roshima T V , AP, EEE presented & published a paper “Closed Loop Control of A Improved Dual Switch Converter with Passive Lossless Clamping for High Step-Up Voltage Gain” in the proceedings of international conference on Electrical, Electronics and Optimization Techniques (ICEEOT) 2016 with IEEE at DMJ College of Engineering, Chennai on 3rd to 5th March 2016.

JOURNALS:

1. Ms .Akhila M, S4 M.Tech PE & Mr.Ratnan P, HOD, EEE published a paper “Analysis of Regenerative Braking in Brushless DC Motor Drive using Adaptive Neuro based Fuzzy Inference System ” in the International Journal of Science & Research (IJSR) December 2015.

2. Ms .Akhila M, S4 M.Tech PE & Mr.Ratnan P, HOD, EEE published a paper “Analysis of Regenerative Braking in Brushless DC Motor Drive using Adaptive Neuro based Fuzzy Inference System” in International Research Journal of Engineering & Technology (IRJET) December 2015.

3. Ms. Rashma Davis, S4 M.Tech PE & Ms. Aathira K V, AP, EEE published a paper “Developed Non-Isolated High Step-Up Converter With Low Voltage Stress” in the International Research Journal of Engineering & Technology (IRJET) December 2015.

4. Ms. Josie Baby, S4 M.Tech PE & Ms. Della David, AP, EEE published a paper “Closed Loop Control of DC/DC Converter Based on Coupled Inductor and Switched Capacitor” in the International Journal of Science & Research (IJSR) December 2015.

5. Ms. Josie Baby, S4 M.Tech PE & Ms. Della David, AP, EEE published a paper “Closed Loop Control of DC/DC Converter Based on Coupled Inductor and Switched Capacitor” in the International Research Journal of Engineering & Technology (IRJET) December 2015.

6. Ms. Emilin Thomas Kangappadan S4 M.Tech PE & Ms. Della David, AP, EEE published a paper “One - Cycle Control of Interleaved Buck Converter with Improved Step - Down Conversion Ratio” in the International Journal of Science & Research (IJSR) December 2015.

7. Ms. Emilin Thomas Kangappadan S4 M.Tech PE & Ms. Della David, AP, EEE published a paper “One - Cycle Control of Interleaved Buck Converter with Improved Step - Down Conversion Ratio” in the International Research Journal of Engineering & Technology (IRJET) December 2015.

8. Ms. Reshma T M, S4 M.Tech PE & Ms. Renjini G, AP, EEE published a paper “Voltage Mode Control of soft switched single switch isolated DC-DC Converter” in the International Research Journal of Engineering & Technology (IRJET) December 2015.

9. Ms. Reshma K R, S4 M.Tech PE & Ms. Renjini G, AP, EEE published a paper “One Cycle Control of High Gain Boost Converter with Coupled Inductor and Charge Pump Capacitor” in the International Journal of Engineering Research & Technology (IJERT) November 2015.

10. Ms. Reshma K R, S4 M.Tech PE & Ms. Renjini G, AP, EEE published a paper “Closed Loop Control of High Gain Sepic Boost Converter With Coupled Inductor and Charge Pump Capacitor” in the International Journal of Science & Research (IJSR) December 2015.

11. Ms. Reshma K R, S4 M.Tech PE & Ms. Renjini G, AP, EEE published a paper “PWM Control of High Gain Sepic Boost Converter With Coupled Inductor and Charge Pump Capacitor ” in the International Research Journal of Engineering & Technology (IRJET) December 2015.

12. Ms. Chippy George M, S4 M.Tech PE & Ms. Reshma Raj C, AP, EEE published a paper “A PFC CUK Converter Fed Bldc Motor Using Artificial Neural Network” in the International Research Journal of Engineering & Technology (IRJET) December 2015.

13. Ms. Chippy George M, S4 M.Tech PE & Ms. Reshma Raj C, AP, EEE published a paper “A PFC CUK Converter Fed Bldc Motor Using Artificial Neural Network” in the International Journal of Engineering Research & Technology (IJERT) November 2015.

14. Ms. Divya Venugopalan, S4 M.Tech PE & Ms. Reshma Raj C, AP, EEE published a paper “Integrated Dual Output Buck Boost Converter For Industrial Application” in the International Research Journal of Engineering & Technology (IRJET) November 2015.

15. Ms. Liji K K, M.Tech PE & Ms. Soumya C , AP, EEE has presented a paper entitled “Ripple Current Reduction Technique Of Dc To Dc Converter Using Tapped Inductor” in International Journal of Latest Research in Engineering and Technology(IJLRET) January 2016.

16. Ms. Mariya T Kuriakose S4 M.Tech PE Ms.Aswathy Rajan, AP, EEE published a paper “Closed loop control of ZCS interleaved boost converter” in the International Journal of Science & Research (IJSR) January 2016.

2016
JUNE

Volume 1
Issue 1

Dept. News Letter

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



Vision of the Department

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

Mission of the Department

To inculcate 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 creative engineering ideas for the benefit of the society.

Programme Educational Objectives

PEO 1: 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.

PEO 2: 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 3: 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

Students will have:

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

S1S2 Result Class Toppers (2014 Admission)



Ms. Sumayya Thasneem
SGPA-9.67



Ms. Veena P
SGPA-9.4



Ms. Fathima Irfana T K
SGPA-8.6



Ms. Smruthi Krishna K
SGPA-8.89



Ms. Arathi P Nath
SGPA-8.84



Ms. Anjali Babu
SGPA-8.21



Jyothi Engineering College

Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University

A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR

JYOTHI HILLS, VETTIKATTIRI P.O., CHERUTHURUTHY, THRISSUR PIN-679531 PH: +91-4884-259000, 274423 FAX : 04884-274777

www.jecc.ac.in | E-mail : info@jecc.ac.in

Student Achievements

1. Ms. Jismi Vincent & Ms. Tania Augustine of S2 PG(PE – 2015 Adm) attended a 2 day seminar on “Issues, Challenges and Strategies in Technical Education with reference to science and Humanities” organized by BSH Department of JECC during 04/02/16 & 05/02/16.



Ms. Jismi Vincent



Ms. Tania Augustine

2. Ms. Reva K R, Mr. Martin Joseph, Mr. Solomon Joseph and Mr. Simon Thomas of S4 EEE (2014 Adm) attended a 2 day workshop on “Data Analytics Using R” dated 3rd and 4th February 2016 hosted by Innovation and Entrepreneurship Development cell in partnership with Kerala Startup Mission.



Ms. Reva K R



Mr. Martin Joseph



Mr. Solomon Joseph



Mr. Simon Thomas

3. Mr. John Justin and Mr. Jain Varghese, S2 EEE (2015 Adm) successfully completed a MOOC course on “ STEEL101 x: Introduction to Steel offered by Tenaris University.



Mr. John Justin



Mr. Jain Varghese

FDP/ STTP/Seminar Attended

1. Ms. Reshma Raj C (AP,EEE) , Ms. Soumya C (AP,EEE), Ms. Aathira K V (AP,EEE) & Ms. Roshima T V (AP,EEE) attended a one day training programme on “Water Quality” on 02/12/2015 at JECC, organized by Department of Civil Engineering.

Faculty Relieved / Posted

Ms. Roshima T V, AP, EEE relieved from her duties on 31/12/2015.



S6 Result Class Toppers



Ms. Aruna K
SGPA-9



Ms. Gayathri P
SGPA-8.68



Ms. Revathy V
SGPA-8.57

Major Department Activities

1. Department of EEE Conducted a 2 day workshop on “Industrial Internet of Things (IIoT)” for S8 EEE (2012 Adm) students in association with ISTE & AEEE students chapter JECC was held on 04/02/16 & 05/02/16. Inaugural function was conducted on 04/02/16 at 9.30 am in the EEE seminar hall. Principal K K Babu inaugurated the function and Asst. Manager Fr. Roy Vadakkan felicitated the function.

Resource Persons: Akhil R and Ananda Manoharan.



2. Mr. Joseph Joshy, Placement officer handled a brain storming session on GDs to the faculty members of EEE Department on 05/02/16 at 12 pm.

3. Department of EEE conducted three departmental events on Tharang'16 (Robowar ,Transformer Designing,& Circuitronix)



4. Department of EEE conducted an expert talk on “Special Electrical Machines and Drives” in association with IEI for S8 EEE (2012 Adm) students on 26/02/16 in the EEE seminar hall.

Resource Person : Dr. Jiji K S, Asst. Professor, EEE, GEC, Thrissur

Course Coordinator : Ms. Aathira K V, AP, EEE, JECC



FACULTY ACHIEVEMENTS

- Ms. Della David, Ms. Roshima T.V , Ms. Anu Sunny, Ms. Soumya C, Ms. Aathira K.V, Ms. Sreethumol M.V, Ms. Saritha P, Ms. Reshma Raj, Ms. Ranjini G, Ms. Aswathy Rajan, and Mr. Jenson Jose completed MOOC courses on “Circuits and Electronics – Basic Circuit Analysis Part – 1” offered by MIT and “Signals and Systems offered by IIT Bombay.
- Mr. Akhil A Balakrishnan, AP, EEE completed MOOC course on “Introduction to C++ organized by Microsoft.
- Ms. Nithya K , Ms. Della David, Ms. Roshima T.V , Ms. Anu Sunny, Ms. Soumya C, Ms. Aathira K.V , Ms. Saritha P, Ms. Reshma Raj, Ms. Ranjini G, Ms. Aswathy Rajan, and Mr. Jenson Jose & Ms. Sreethumol M V , completed MOOC courses on “Circuits and Electronics – Basic Circuit Analysis Part – 1” offered by MIT
- Ms. Nithya K , Ms. Roshima TV , Ms. Soumya Cand Ms. Aathira K.V completed MOOC course on “Principles of Electric Circuits conducted by Tsinghua University

PAPER PRESENTATION / PUBLICATIONS

- Akhila M, S4 M.Tech PE & Mr. Ratnan P, HOD, EEE published a paper “Brushless DC Motor Drive with Regenerative Braking Using Adaptive Neuro Based Fuzzy Inference System” in the proceedings of international conference on Electrical, Electronics and Optimization Techniques (ICEEOT) 2016 with IEEE at DMJ College of Engineering, Chennai on 3rd to 5th March 2016.
- Mr. Paul Davis, S4 M.Tech PE & Ms. Aathira K V, AP, EEE published a paper “Transformer less DIDO DC – DC Converter for EV’s in the proceedings of international conference on Electrical, Electronics and Optimization Techniques (ICEEOT) 2016 with IEEE at DMJ College of Engineering, Chennai on 3rd to 5th March 2016.
- Ms. Rashma Davis, S4 M.Tech PE & Ms. Aathira K V, AP, EEE published a paper “Developed Non-isolated High Step-up Converter with Low Voltage Stress” in the proceedings of international conference on Electrical, Electronics and Optimization Techniques (ICEEOT) 2016 with IEEE at DMJ College of Engineering, Chennai on 3rd to 5th March 2016.
- Ms. Josie Baby, S4 M.Tech PE & Ms. Della David, AP, EEE published a paper “High Gain Single Switch Boost Converter for Sustainable Energy Applications Using Switched Capacitor And Coupled Inductor” in the proceedings of international conference on Electrical, Electronics and Optimization Techniques (ICEEOT) 2016 with IEEE at DMJ College of Engineering, Chennai on 3rd to 5th March 2016.
- Ms. Emilin Thomas Kangappadan S4 M.Tech PE & Ms. Della David, AP, EEE published a paper “Interleaved Buck Converter with Continuous Supply Current Using OCC Technique” in the proceedings of international conference on Electrical, Electronics and Optimization Techniques (ICEEOT) 2016 with IEEE at DMJ College of Engineering, Chennai on 3rd to 5th March 2016.
- Ms. Divya Vincent, S4 M.Tech PE & Mr. Kapildas K S, AP, EEE published a paper “Double Integrated Buck Offline Power Supply for Solid- State Lighting Applications” in the proceedings of international conference on Electrical, Electronics and Optimization Techniques (ICEEOT) 2016 with IEEE at DMJ College of Engineering, Chennai on 3rd to 5th March 2016.
- Ms. Reshma T M, S4 M.Tech PE & Ms. Renjini G, AP, EEE published a paper “PWM control of soft-switched single switch Isolated DC-DC Converter” in the proceedings of international conference on Electrical, Electronics and Optimization Techniques (ICEEOT) 2016 with IEEE at DMJ College of Engineering, Chennai on 3rd to 5th March 2016.
- Ms. Reshma K R, S4 M.Tech PE & Ms. Renjini G, AP, EEE published a paper “Soft Switching Sepic Boost Converter With High Voltage Gain ” in the proceedings of international conference on Electrical, Electronics and Optimization Techniques (ICEEOT) 2016 with IEEE at DMJ College of Engineering, Chennai on 3rd to 5th March 2016.
- Ms. Neethu P Gopal, S4 M.Tech PE & Ms. Saritha P, AP, EEE published a paper “Closed Loop Control of High Conversion Ratio Isolated Bidirectional DC to DC Converter” in the proceedings of international conference on Electrical, Electronics and Optimization Techniques (ICEEOT) 2016 with IEEE at DMJ College of Engineering, Chennai on 3rd to 5th March 2016.
- Ms. Neethu John, S4 M.Tech PE & Ms. Saritha P, AP, EEE published a paper “Non Isolated DC-DC Converter Using One Cycle Control” in IEEE sponsored 3rd International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS'16) held on 17th & 18th March 2016 organized by Department of Electronics and Communication Engineering, Karpagam College of Engineering , Coimbatore.
- Ms. Chippy George M, S4 M.Tech PE & Ms. Reshma Raj C, AP, EEE published a paper “A review on PFC CUK Converter Fed BLDC Motor Drive Using Artificial Neural Network ” in the proceedings of international conference on Electrical, Electronics and Optimization Techniques (ICEEOT) 2016 with IEEE at DMJ College of Engineering, Chennai on 3rd to 5th March 2016.
- Ms. Divya Venugopalan, S4 M.Tech PE & Ms. Reshma Raj C, AP, EEE published a paper “Integrated Dual Output Buck Boost Converter for Industrial Application” in the proceedings of international conference on Electrical, Electronics and Optimization Techniques (ICEEOT) 2016 with IEEE at DMJ College of Engineering, Chennai on 3rd to 5th March 2016.
- Ms. Anagha T A, S4 M.Tech PE & Ms. Anu Sunny , AP, EEE has presented a paper entitled “A Modified Circuit for ZVS Synchronous Buck Converter at High Frequency” in IEEE sponsored 3rd International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS'16) held on 17th & 18th March 2016 organized by Department of Electronics and Communication Engineering, Karpagam College of Engineering , Coimbatore.
- Mr. Justin John S4 M.Tech PE & Mr. Jenson Jose, AP, EEE published a paper “A New Three Phase Step up Multilevel Inverter Topology for Renewable Energy Applications” in the proceedings of international conference on Electrical, Electronics and Optimization Techniques (ICEEOT) 2016 with IEEE at DMJ College of Engineering, Chennai on 3rd to 5th March 2016.
- Ms. Liji K K, M.Tech PE & Ms. Soumya C , AP, EEE has presented a paper entitled “Ripple Current Reduction Technique of DC to DC Converter with One Cycle Control in IEEE sponsored 3rd International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS'16) held on 17th & 18th March 2016 organized by Department of Electronics and Communication Engineering, Karpagam College of Engineering , Coimbatore.
- Ms. Anagha T A, S4 M.Tech PE & Ms. Anu Sunny , AP, EEE has presented a paper entitled “A Modified Circuit for ZVS Synchronous Buck Converter at High Frequency” in IEEE sponsored 3rd International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS'16) held on 17th & 18th March 2016 organized by Department of Electronics and Communication Engineering, Karpagam College of Engineering , Coimbatore.