

2019

DECEMBER

# 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 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.

## 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.

## FACULTY ACHIEVEMENTS

- Dr. Shijoh V Delivered a keynote speech on Applications of Artificial Intelligence Instrumentation and control of Electrical Engineering in National Conference on Emerging Trends in Power Instrumentation Control and Computer Technologies (PICCCT) on 7<sup>th</sup> -9<sup>th</sup> August -2019.
- Jithin K. Jose (Mentor) Assist. Prof . EEE Dept, Joseph P. K. S7 EEE, Giyo Geroge K. S7 EEE, Edwin Joseph S7 EEE, attended the IEEE YESIST12 – Maker Fair 2019, held at Stamford International University, Bangkok, Thailand on 7th & 8th September 2019. The project topic is “HEAD CONTROLLED WHEELCHAIR WITH PATIENT MONITORING”.

## STUDENT ACHIEVEMENTS

- SAHAL K H S5 EEE, student attended the premier international technical conference of IEEE Region 10. Held on 17th to 20th October 2019 at Grand Hyatt Kochi Bolgatti, Kerala, India.

## PAPER PRESENTATIONS AND PUBLICATIONS

- Ezhil Vignesh Stephy Akkara, Jarin. T published a research paper titled “ Simulation on the Generation of Electricity from running train wheels “, International Journal of Mechanical and Production, Engineering Research and Development, (Scopus), Vol. 9, Special Issue, Aug 2019,1-13.
- Ahilan, Agees Kumar, T. Jarin, et. Al, published a research paper titled “ Segmentation by Fractional Order Darwinian Particle Swarm Optimization Based Multilevel Thresholding and Improved Lossless Prediction Based Compression Algorithm for Medical Images.”, IEEE Access SCI[Impact Factor 4.03], July 2019, (Vol:7) PP: 89570-89580.



**Jyothi Engineering College**  
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# UNIVERSITY RESULT ANALYSIS

## B-TECH

### Toppers List -S8 Result (2015-19 EEE Admn. Batch)

Name	SGPA
MARIYA ROSE J	9.17
VISHNU B	8.67
TERRIN THOMAS	8.5

### Toppers List -S6 Result (2016-20 EEE Admn. Batch)

Name	SGPA
ALBIN JOY	8.78
JOHN JOSE	8.5
ALWIN STEPHEN	8.08

### Toppers List -S4 Result (2017-21 EEE Admn. Batch)

Name	SGPA
SNEHA J. P	9.87
ANITTA SAVY	9.15
AMRITHA ASHOK K.	8.89

### Toppers List -S4 Result (2018-22 EEE Admn. Batch)

Name	SGPA
ANLEYA ANTO	8.85
SARASWATHY BOSE	8.78
RAHUL S. S	8.67

## M-TECH

### Toppers List -S4 Result (2017-2019 EEE Admn. Batch)

Name	SGPA
STEFFY AKKARA	10
JOSHNA ANNA JOHNSON	10
HARITHA A S	9

### Toppers List -S2 Result (2018-2020 EEE Admn. Batch)

Name	SGPA
SHAHINA E.P	8



SAHAL K H S5 EEE student attended the premier international technical conference of IEEE Region 10. Held on 17th to 20th October 2019 at Grand Hyatt Kochi Bolgatti, Kerala, India.

## Inauguration of activities of IEEE-IAS in 2019-2020 academic year & Workshop on Cyber Security



The inauguration of activities of IEEE-IAS in 2019-2020 academic year along with the workshop on Cyber Security held on 27<sup>th</sup> September 2019 at Insight Hall. The Chief guest was Mr. R. S. Nithin, Vice Chair, IEEE Kerala Young Professionals. The inauguration held at 10.00am. There were 60 students including IEEE student members who participated in the function. Mr. Jithin K. Jose, Staff Advisor IEEE-IAS, Jyothi Engineering College gave the welcome address, Er. Thomas Mathew Administrator delivered the presidential address, Prof. Ratnan P. Vice Principal delivered the Principal Address. During the Principal address Prof. Ratnan P. have congratulated the entire team of IEEE-IAS especially Mr. Jithin K. Jose, Staff Advisor IEEE-IAS for the active participation for all the programs in and out the college.



Staff and Students from EEE Dept. attended the IEEE YESIST12 – Maker Fair 2019, held at Stamford International University, Bangkok, Thailand on 7th & 8th September 2019. The project topic is “HEAD CONTROLLED WHEELCHAIR WITH PATIENT MONITORING”.

### Team Members

Jithin K. Jose (Mentor) Assist. Prof . EEE Dept.

Joseph P. K. - S7 EEE

Giyo Geroge K. - S7 EEE

Edwin Joseph. - S7 EEE