



**IEEE PES STUDENT BRANCH CHAPTER**  
**MARIAN ENGINEERING COLLEGE**



**ANNUAL REPORT (2018-2019)**

**PRESENTED BY:**

**JACOB THOMAS PUTHUKERIL (IEEE PES MEC SBC CHAIRMAN 2018)**

**POWERED BY**



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REPORT APPROVAL BY:

Dr. SHEEJA AGUSTIN  
(IEEE MCE SB COUNSELLOR)

Dr. VIJAYLEKSHMI S  
(IEEE PES MEC SBC ADVISOR)

May 3, 2019

Dr. Vijayalekshmy S.  
Marian Engineering College  
Aswathy, NLRA, Neerazhi Lane  
Ulloor, Medical College PO  
Thiruvananthapuram - 695011  
India

Dear Dr. Vijayalekshmy S.:

Congratulations! It is a pleasure to inform you that the requirements of the Member and Geographic Activities Board Operations Manual have been met and the IEEE Power & Energy Society Student Branch Chapter at the Marian Engineering College has been formed. The effective date of this Student Branch Chapter formation is May 2, 2019.

On behalf of the IEEE and its members, I would like to welcome your Branch Chapter to the student program. If you have any questions or need assistance, please do not hesitate to contact our Student Services department at:

Student Services  
IEEE Member and Geographic Activities Department  
445 Hoes Lane  
Piscataway, NJ 08854

student-services@ieee.org, email  
+1 732 562 5527, phone  
+1 732 463 9359, fax

Sincerely,

*Cecelia Jankowski*

Cecelia Jankowski  
Managing Director  
Member and Geographic Activities

cc: A. Nishihara – Region 10 Director  
B. Huynh Thi Thanh – Region 10 Student Activities Chair  
S. Sivakumar – Region 10 Student Representative  
S. Rahman – Power & Energy Society President  
M. Armstrong – Power & Energy Society Vice-President of Chapters  
P. Ryan – Power & Energy Society Executive Director  
S. Nason – Power & Energy Society Administrator Member Service  
Sameer S. M. – Kerala Section Chair  
Nandan S. – Kerala Section Student Activities Chair  
Sheeja A. – Student Branch Counselor  
A. Uluvathu – Student Branch Chair  
J. Puthukeril – Student Branch Chapter Chair

## **EXECOM 2018 – 2019**

The Student Branch Geocode: **SBC18901**

The Student Branch Executive Members for the year 2018 - '19 are listed below:

- ❖ Chairman: Jacob Thomas Puthukeril
- ❖ Vice-Chair: Anoop Johnson
- ❖ Secretary: Febin Ansan
- ❖ Women In Power: Niranjana Vijayan
- ❖ Volunteer Head: Aswin Das S

IEEE Branch Counselor: Dr. Sheeja Agustin

IEEE PES SBC Advisor: Dr. Vijaylekshmi S

The Department Association VIDYUTH 2018 office bearers were:

- ❖ President: Anoop Johnson
- ❖ Secretary: Swathy Krishna
- ❖ Treasurer: Smrithi Lal

**Event No.1****Circuit Breakers**

Circuit Breaker was a circuit building competition which was conducted in collaboration with VIDYUTH(EEE MCE ASSOCIATION) on 21st March 2019 with direct sponsorship with PHASE ELECTRICAL COMPUTATION. The registration fee was rs.50 which can be paid online as well as offline payment. Spot Registration were also welcomed. The Competition started around 12:50 pm with 26 students out of 30 total students. Each of the contestants were given a PCB with required components. The competition was such that each of the PCB should be soldered in such a manner, the identical components shouldn't be soldered adjacent to each other; all the drills in the PCBs should be soldered as well. Out of the 26 PCBs, the first 5 will be selected in which the PCB of 4th contestant was taken as the winner. The design of the PCB was such that placing of any components in any manner will produce an output but using a polarized capacitor determines the winner.

Prasad M S of S2 Mechanical was selected as the winner and awarded a cash prize of Rs. 1000/-.



Event poster



**Event No.2****TESLA 369**

The PES Student Chapter of Marian Engineering College had conducted an Online Quiz Contest named TESLA 369 conducted between 27/03/2019 – 29/03/2019. The registration started from 23/03/2019 and the quiz link was sent to each participant through their registered email id. The quiz comprised of 10 questions out of which 7 questions are based on their core branch, 2 questions are aptitude based and 1 general knowledge question. Students from 10 different branches participated in the contest.

Overall 56 contestants participated in the event from 7 colleges in Trivandrum. Sujith Suman of Mar Baselios College of Engineering & Technology secured the first position in the competition. By 30<sup>th</sup> of March all the participants were provided with their participation certificates. This was the 2<sup>nd</sup> week event conducted as part of the 3PHASE Mini-Technical Fest.

**Event No.3****EUREKA**

The PES Student Chapter of Marian Engineering College had conducted an Online Idea Pitching Contest named EUREKA conducted between 04/04/2019 – 05/04/2019. The registration started from 02/04/2019 and the question link was sent to each participant through their registered email id. The question was based on a problem faced by a normal human in his day today life suggested by Asst. Prof. Deepu S, Asst. Prof. Sujith & Student Chapter Secretary Febin Ansan. Overall 74 participants participated in the event. Feba Mary John of Marian Engineering College, Trivandrum secured the first position in the competition after online valuation by the judging panel. By 07<sup>th</sup> of April all the participants were provided with their participation certificates. This was the 4<sup>th</sup> week event conducted as part of the 3PHASE Mini-Technical Fest.



## Event No.4

### D-RELAY

The PES Student Chapter of Marian Engineering College(SBC18901) had conducted an Online International Energy Hackathon named D-RELAY conducted between 10/04/2019 – 15/04/2019 as part of International 2<sup>nd</sup> PES Day. Jacob Thomas Puthukeril, Chairman of PES Student Chapter of the College was the Ambassador of the Student Branch. The registration started from 08/04/2019 and the question link was sent to each participant through their registered email id. The question was based on a problem in renewable energy suggested by **Megabyte Renewable Solutions**( A Private Enterprise in Trivandrum) who was our main sponser. There were participants from more than 17 countries.

Overall 108 participants participated in the event. The hackathon question was finally cracked by **Chamakya Sukeyona of University of Moratuwa, Sri Lanka** secured the first position in the competition. By 18<sup>th</sup> of April all the participants were provided with their participation certificates. This was the 3<sup>rd</sup> week event conducted as part of the 3PHASE Mini-Technical Fest.



**Event No.5****3PHASE REGENERATED-The Mini Technical Fest**

The PES Student Chapter of Marian Engineering College had conducted a Mini Technical Fest named 3PHASE REGENERATED conducted on 2<sup>nd</sup> May. This was the second edition of the technical fest which was previously conducted on 12<sup>th</sup> September, 2016. This is the flagship event hosted by the Department of Electrical & Electronics. In the first season it was a technical exhibition. As a step of progression, by exhibiting the projects, 6 technical competitions along with a National Conference was conducted. The National Conference was the paper presentation event hosted by the department which was conducted along the fest. Following are the events conducted as part of the technical fest.

1. Circuit Drawing
2. Circuit Debugging
3. Glow It
4. Treasure Hunt
5. Rubix
6. Touch me not



A reg. fee of Rs. 10/- was collected and students will be provided with a coupon which is applicable for the whole event. 65 students participated in the technical competitions. A strong team of 25 volunteers with the help of the parent Execom the event was a success. Knowing the faults from the previous events it was conducted in a fresh manner. The competition winners were provided with certificate along with a gift. Participation certificates were also provided. This event helped us to select the new PES Execom Team. The selection was done and an event roadmap was also made. The team is set to begin the planning of **3PHASE 3.O.**

## 3PHASE MINI TECHNICAL FEST EVENT POSTERS



**3 PHASE  
REGENERATED**

21<sup>st</sup> MARCH 2019 to 2<sup>nd</sup> MAY 2019

Event Promoters



**EVENT LIST**

- Fungitive: Treasure Hunt
- Circuit Drawing
- Circuit Debugging
- Blow it
- Touch me not!
- Rubix

Registration counter: IEEE ROOM (sacred hearts block)

Contact:  
Anoop: 8734835001  
Sreejith S: 9995493270  
Jacob: 8089787178

DATE: MAY 2, 2019  
TIME: 12:30 to 1:30 pm

Registration Fee: 10 rs (for all the events)

**RUBIX**  
Rubix Cube Competition

Date: 2<sup>nd</sup> May, 2019

Contact:  
Viswadevan: +91 9072467542  
Nikhil: +91 9567923253  
Sooraj: +91 9400542945

**CIRCUIT DEBUGGING**

Individual Participation  
Date: 2<sup>nd</sup> May, 2019

Contact:  
Anish: +91 8547216339  
Ajmal: +91 9048159072

**CIRCUIT DRAWING**

Individual Participation  
Date: 2<sup>nd</sup> May, 2019

Contact:  
Riya: +91 9497852493  
Soorya: +91 7510156687



All the events were participated by using a single coupon of Rs.10/-. Through this students were able to grab maximum credit points by providing them with the certificates with each participant certificate worth 10 points. By participating all the 10 events organised by the team they were able to grab 100 credit points as well. Overall 49 students participated.

## **FUTURE OF PES SBC**

A large no. Of activities which were scheduled during the academic year 2018-'19 were unable to conduct due to technical issues. Its the first time a College Chapter an International Hackathon & was globally recognized. With the same motive the new EXECOM is planning their activities as well.

The new EXECOM for the year 2019-'20 :

- Chairman: Aneesh
- Vice Chair: Jasmin
- Secretary: Akshay
- Women in Power/Volunteer Head: Ria George
- Treasurer: Anju
  
- IEEE Branch Counselor: Dr. Sheeja Agustin
- IEEE PES SBC Advisor: Dr. Vijaylekshmi S

The Department Association VIDYUTH 2019 office bearers are:

- President: Manu
- Secretary: Maheen
- Treasurer: Sandra

All the office bearers were selected through continuous evaluation by volunteering IEEE PES SBC & VIDYUTH activities. An event road map with the new activities will be scheduled in a report with prior permissions. Other than the office bearers Volunteer representing the PES SBC is assigned in each branch. As a conclusion, together with the unity of the EXECOM members and the management, we hope to have a smooth running of the Chapter.