

# Newsletter

A House Journal of IEEE Kerala Section

<http://www.ewh.ieee.org/r10/kerala>



## **Stephen William Hawking**

(8 January 1942 - 14 March 2018) an English theoretical physicist, cosmologist who brought the universe, black holes, space-time, and the future of our planet among other topics into the public consciousness.

In 1963, when **Hawking** was 21, doctors diagnosed him with amyotrophic lateral sclerosis, a disease of the central nervous system that is currently incurable.

**Hawking** was born on the 300<sup>th</sup> anniversary of Galileo's death and died on the 139th anniversary of Einstein's birth. His funeral took place at 2.00 pm on the afternoon of 31 March 2018, at Great St Mary's Church, Cambridge.

Following his cremation, his ashes will be interred in Westminster Abbey on 15 June 2018 during a Thanksgiving service. This location is next to the grave of Sir Isaac Newton and near that of Charles Darwin. He directed at least fifteen years before his death that the Bekenstein-Hawking entropy equation be his epitaph.



*“As a man himself sows, so he himself reaps; no man inherits the good or evil act of another man. The fruit is of the same quality as the action.”*

*- Mahabharata*

If we sow goodness, we will reap goodness!

The quote reveals that happiness comes due to good actions and suffering results from evil actions. Also, by actions, all things are obtained and by inaction nothing whatsoever is enjoyed. If one's action bore no fruit, then everything would be of no avail. If the world worked from fate alone, it would be neutralized.

We traditionally use the word '*karma*' similar to '*action and reaction*'. A similar Sanskrit word is '*kriya*', referred to the activity along with the steps and effort in action. *Karma* is the executed action of an individual (cause) influence the future of that individual (effect). A good action creates good karma, as does good intent, but a bad action creates bad karma, as does bad intent.

*Karma* is a very powerful concept in Hindu tradition. When someone is happy or sad, we immediately attribute it to Karma. It can be understood more in the reactionary sense than in the sense of action. Both action and reaction come under the definition of *Karma*.

In contrast with the Karma as '*action and reaction*' in modern science we could see their resemblance. In '*Principia*', Newton disclosed the law of action and reaction. This third law is important in analyzing problems of static equilibrium, where all forces are balanced; it applies to bodies in uniform or accelerated motion too. However, Karma is related to the action and reaction of one's own deeds, where it defines as '*you are the product of the past and the producer of the future*'.

The Karma theory corresponds very loosely to third law of motion, defines '*every action has an equal and opposite reaction*'. Consider a simple act of doing charity. There is an element of loss in terms of money or material in acts of benevolence. Here the law of Karma aims to correct this imbalance by making the donor a potential recipient of money or material or some other benefit to compensate this loss.

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## Chairman's Message



The new team of office bearers has taken charge of IEEE Kerala Section on 13<sup>th</sup> January 2018 during the annual general meeting held at Hotel Apollo Dimora, Trivandrum. It is a challenging responsibility entrusted upon the new team to lead one of the most vibrant IEEE sections across the globe, having 2 subsections, 4 affinity groups and 11 society chapters.

I am happy to inform you that after a short break we are now resuming the publication of quarterly newsletter of the Section, with three e-letters and a print copy as annual newsletter in the last quarter as usual.

At the outset I am delighted to inform you that Kerala Section has won bidding to host two flagship events of IEEE; The International Leadership Summit of Women in Engineering (WIE-ILS) in this year and the Region-10 International Conference TENCON in 2019. The 4<sup>th</sup> edition of the flagship conference of IEEE Kerala Section, RAICS will also be held this year. You will be receiving the details soon from the respective organizing teams.

Quality of technical education in the state has become a matter of concern both for academicians and professionals in the state. We are determined to address some of the issues in this year to bridge the gap between the teaching-learning processes. Our student branch count has reached 91 in 2018. Some of the important student branch activities are highlighted in this newsletter. It is heartening to note that student branch chapters of many IEEE societies are actively formed in many of the SBs.

The section level officer bearers of society chapters have started their activities to serve the respective communities. Some of you might have already received e-notice from the officers of your respective societies seeking your suggestions. Please feel free to share your thoughts with them. You can also write to me your suggestions for improving the activities, reach, membership retention and growth rate of the Section. Your active participation is solicited for Section and Subsection programs. Altogether we hope to have an existing year ahead with many avenues for professional enrichments.

**Dr. Sameer S. M.**  
Chair, IEEE Kerala Section

**JOIN**  
**RENEW YOUR MEMBERSHIP**



*IEEE members can stay current in their chosen  
technology profession and keep connected to peers  
by joining an IEEE Society in their  
area of interest.*

**The World's largest professional organization  
for the advancement of Technology**

*(Contn. - front cover inner)*

IEEE globally implementing viable, effective, and innovative solutions to pressing global crises and causes. It also tackles problems in different areas like Energy, Water, Food, Environment Disease, Poverty, Terrorism, War, Education, Democracy, Population, etc., that too for the fostering of the technological innovation and excellence for the benefit of humanity. Its primary purpose of humanitarian aid is to save lives, alleviate suffering and respect/maintain human dignity.

In conclusion, IEEE is encouraging its members at the local level to identify problems and create solutions. It also establishes the Humanitarian Technology Network to serve all of the technical humanitarian community resulting '*the product of the past and the producer of the future*'. We are in the *Karma* field...!

*Every action of ours generates a force of energy. When we choose actions that bring happiness and success to others. The fruit of our Karma is harmony, happiness and success universally!*

**Prof. K. Gopalan Nair**

Life Senior Member, Chair Publications

# Science Week

February 26th - March 3rd

Reported by. Sabarinatha Pillai

## Introduction

February 28<sup>th</sup> is Internationally celebrated as Science Day. To convey the importance of this day, the student community of IEEE Kerala Section decided to conduct a series of events related to science, creating awareness about the day and how the day was declared as Science Day.

Various technical events, conferences and competitions were conducted in SB's across Kerala. The event focused to develop the technical skills of the student in a comprehensive and effective way through various hands on session. The event became a huge success in a short span of time with active participation of student members in their own SB's.

## Implementation

- Each Hub was given their own space to carry forth the Science Week in their HUB's
- It was mandatory for the SB's to conduct events related to Science
- Awareness session on the importance of Science day and how it got to be celebrated as Science day was made mandatory
- Tech Talks, Debates, Competitions etc were encouraged

## Goals Met

- Able to conduct events related to science
- Made awareness about Science Day

- Active participation of nearly every Student Branch of IEEE Kerala Section
- A total of 80+ events were conducted.

Science Week Event Distribution

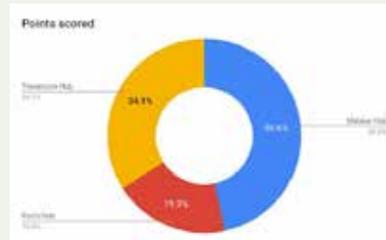


Figure 1 shows the distribution of events conducted by each HUB

## Science Week Event Distribution

Figure 1 shows the distribution of events conducted by each HUB

### Reports1

Each HUB had their own essence in conducting their events. The following briefs how each HUB carried out the events.

### 1. Malabar HUB

On malabar Hub's initiative total 43 events were conducted. The details of each event is mentioned below.

#### 1.1 Vimal Jyothi Engineering College, Chemperi

##### 1.1.1 Sci-Fi movie presentation

The IEEE SB VJEC conducted 'Science day' Celebrations from February 24<sup>th</sup> to March 3<sup>rd</sup> 2018. On March 1<sup>st</sup> the volunteers were shown a Sci-Fi movie. On

1<sup>st</sup> March 2018 the IEEE volunteers were shown a short film “Rocket to the Future” by Stephen Hawking as a part of the Science Day Celebrations. The event was conducted at the software lab and lasted for one hour from 04.15 to 05.00 pm. The program was organized under the guidance of Mrs. Jyothi Joseph and Mr. Prabin James.

### **1.1.2 Science around the campus**

On March 2<sup>nd</sup> and 3<sup>rd</sup>, the volunteers organized a treasure hunt based on ‘Science around the campus’. The volunteers under the guidance of Mrs. Jyothi Joseph organized the program and obtained the permission from HOD. The volunteers also prepared the clues for treasure hunt. On 2<sup>nd</sup> March 2018 the IEEE volunteers organized a treasure hunt for the students of EEE department. Thought provoking clues were designed by the organizers and students actively participated in it. The students participated in groups of five. The program was organized under the guidance of Mrs. Jyothi Joseph.

### **1.1.3. Scientific Poster Designing Competition**

On March 2<sup>nd</sup> and 3<sup>rd</sup> the volunteers organized a poster designing competition. The volunteers under the guidance of Mrs. Jyothi Joseph organized the program and obtained the permission from HOD. A poster designing competition was organized by the IEEE SB for the students of VJEC. The students were told to submit their entries within two days and many scientific creative entries were obtained. The program was conducted successfully and the entries were evaluated and best entries were awarded with prizes.

### **1.1.4 Scientific Research**

On March 1<sup>st</sup> a time slot was given for Scientific Research. The volunteers under the guidance of Mrs. Jyothi Joseph organized the program and obtained the permission from HOD. On 1<sup>st</sup> March 2018 the IEEE volunteers organized a Research Session about Scientific topics for the students of VJEC. The students researched on various scientific topics which are quite relevant in the present scientific world. Some of the best researches were from the field of biomedical, Cloud computing etc. The program was organized under the guidance of Mrs. Jyothi Joseph.

## **1.2 College of Engineering, Trikaripur**

### **1.2.1 Science Movie Show**

As part of science week celebration a Sci Fi movie show was organized on 23<sup>rd</sup> February 2018 for the students of College of Engineering, Trikaripur. The one hour program was completed by a chain of short films, such as ‘The Black Hole’, ‘One Minute Time Machine’ etc. Students from various departments participated in the program. Feedbacks were collected from students and their suggestions and requests for further such programs were taken into account.

### **1.2.2 Photography Contest**

An online photography contest on the topic ‘Science Around Your College’ was conducted exclusively for the students of College of Engineering, Trikaripur. A prize money of Rs 500 was put forward for the winners of the contest.

### 1.2.3 Quiz Competition

A quiz competition on topic “General Science” was hosted by the PES Chapter of IEEE SB CETkr. The program lasted for 30 minutes where the contestants competed with each other via a writing test. The winner was declared and awarded on the highest score criteria.



## 1.3 Government Engineering College, Wayanad

### 1.3.1 Scientific Movie

IEEE SB GECW has conducted a “Movie Watch Party” as a part of Science Week on March 6, 2018 at 4.30 pm in Virtual room of CSE Dept..The Australian Science Fiction Thriller, ‘Predestination’ was the movie. It is based on a time travelling device which has not yet developed in the real world. This movie, which has got many twists , had made the viewers to think out of the box. There were 40 students for watching the movie and a review from their part had taken. It seemed that everyone had enjoyed and understood the technology behind the movie.

### 1.3.2 Workshop

IEEE SB GECW has conducted a “High Performance Computing”; Workshop on 2<sup>nd</sup> of March at 8.30 am in Network Lab. The session was taken by

Prof. Tomsy Paul, Assistant Professor of RIT College, Kottayam. It was a one day workshop. There were 40 participants which include three from other College. Through this session, students got an opportunity to learn MPI programming and to explore the components of HPC along with a chance to visit the HPC room at our College. The feedback from the students were great and also the had a good experience.



### 1.3.3 Photography contest

IEEE SB GECW has conducted a Photography Contest on ‘Science Around Us’ as a part of Science Week which has invited the captured science models around the College. This contest has given an enthusiasm to the students to keenly observe the science models present in the College. A link was given to enter the photos that had captured before the date of March 4, 2018. Many entries were there which made us to think what all science models are present which we hadn’t noticed yet. Made to understand that many intelligent and keen observers are present at our College. The winner was Vishnu KT, one of our members and he captured the Wind Wane which was at the terrace of our College. The winning photo is attached.



**1.3.4 Quiz Competition**

IEEE SB GECW has conducted a quiz, as a part of Science week, to find those hidden magnificent brains of College on 6<sup>th</sup> of March at 12.30 pm in CSE Seminar hall. The participants was selected on the basis of the marks scored from the preliminary test conducted on February 21<sup>st</sup>, 2018. The quiz was conducted with 5 groups of 2 people by the supervision of the quiz master Ms. Sudhila, one of our members from M.Tech. The team of Amal Dev and Nivedh had won the competition, which was a tight competition. It has decided to greet the winners at the inauguration of WIE (8-3-2018).



**1.3.5 Water Conservation Talk**

IEEE SB GECW has conducted a 'Water Conservation Talk' on March 7, 2018 at 2.30 pm in the Virtual Room of CSE Dept. The session was handled by Mr. Arunkumar S, Assistant Director of Soil Conservation, Karakkamala. There

was 45 people including faculties and staff. The session was highly inspiring and motivational which includes slide presentation and video presentation. It was a good awareness class for everyone and the session ended with the interactive session in which doubts are clarified and new ideas are discussed.



**1.4 KMCT College of Engineering, Mukkom**

As a part of science week 2018, our IEEE student branch of KMCT College of Engineering, Kozhikode conducted national science day celebrations in and around our College campus organizing various programs and involving every volunteer in our IEEE SB and other students who are non - IEEE also. Our Science Day program was celebrated in our College from February 25 to March 3<sup>rd</sup>. All volunteers participation was our main aim that we are satisfied with volunteer's performance in the various programs that we organized. The Science Day program was very successful one and all students enjoyed a lot and got more informative things for their life. The programs are very useful and very informative because the basic theme for all the programs was the branch of science. Different types of events are conducted.



### 1.4.1 Photography Contest

The photography contest was started on February 25<sup>th</sup> to March 2<sup>nd</sup> in Social Medias. It was on the topic of Science around our College and a prize money of 0.5K (cash prize) was also organized. The winners of the photography contest were Anand (first) of EC6, Sheheen (second) of ME4, Sabari (third) of CE4.

### 1.4.2 Research

A research about science competition was organized on February 28<sup>th</sup> in our Internet lab. The contestants selected their topics and browsed about the new innovations & science behind that topic etc. The winners of this event are Fathima Nurath (first) of CE2 (on the topic. Space Craft & Robotic Technology), Akshay CS (second) of CS6 (on the topic. How long would a trip to Mars take?), Suhaib Panolan (third) of ME4 (on the topic. Science and Technology for sustain future). We conducted science quiz in our seminar hall on March 1<sup>st</sup> all

students participated in it a team. Our volunteer Akshay CS was the host on that day. The winners are Sreeraj (first) of CE4, Jithin (second) of CE4, Akshay (third) of EE4.

### 1.4.3 Paper presentation competition

A paper presentation competition was organized on February 25<sup>th</sup> to March 2<sup>nd</sup> and the topic was latest topics on science, and the winners are Arundev (first) of EC6, Athira (second) of EC6 & Fairouz khan (third) of CS6. A science fiction film show was conducted on March 1<sup>st</sup> the film was “Interstellar” it was a half day program. All winners get certificates and prizes. The prizes & certificates were given by our principal Prof. C Ranjith and our branch councilor Mr. Arunlal C K. Our Science Week program gets good feedbacks from students and College staffs.

### 1.4.4 Film Show

A science fiction film show was conducted on March 1<sup>st</sup> the film was “Interstellar” it was a half day program. All winners get certificates and prizes. The prizes & certificates were given by our principal Prof. C Ranjith and our branch councilor Mr. Arunlal C K. Our science week program gets good feedbacks from students and College staffs.

### 1.4.4 Science Quiz

We conducted science quiz in our seminar hall on March 1<sup>st</sup> all students participated in it a team our volunteer Akshay CS was the host on that day and the winners are Sreeraj (first) of CE4, Jithin (second) of CE4, Akshay (third) of EE4.

### 1.5 MEA College of Engineering, Perinthalmanna

MEA IEEE SB has celebrated Science week from 24<sup>th</sup> February to 1<sup>st</sup> March. Around 50 students participated. The programs conducted during science week includes TEADUS'18 which was a one day celebration program which includes.



#### 1.5.1 LEMAS

A poster designing competition for all students of the Student Branch was conducted.

#### 1.5.2 Investig0

It was a write up competition for the students.

#### 1.5.3 Documentary Video Presentation

A documentary video presentation of CV RAMAN Biography (Indian Scientist) and conducted.



#### 1.5.4 Photography Contest

Inside our College to capture any thing that is related to Science. And also published posters on the IEEE SB's Notice Board regarding Science Week.

### 1.6 NSS, Palakkad

#### 1.6.1 National Science Day Celebration

The National Science Day was celebrated on February 28<sup>th</sup> 2018. The inauguration was done by Dr. T Sudha, Principal NSSCE, followed by Dr. Leesha Paul, IEEE staff counsellor at 3.00pm in E1 hall. There was the inaugural address by the Principal on the importance of Science in day to day life. Different programmes were conducted in accordance with the celebration of the National Science Day.

#### 1.6.2 Photographic Competition

IEEE NSSCE student branch has conducted the Photography Competition on the topic 'Science in College' and it was an online competition. The winners were awarded a cash price of Rs. 500.



#### 1.6.3 Sci-Fi Movie show

As part of science week celebrations, we displayed a Sci-Fi movie, 'The Nostalgist' which deepened fictional stories and thus power of creativity. It has given spirits to advance more technologies for future life.

#### 1.6.4 Scientific Poster Design Competition

We conducted the poster design competition on 'Energy Conservation'

that has more relevance in our society. Nearly 14 students participated in the competition. Certificates were provided for the winners.



### 1.7 Sreepathy Institute of Management and Technology, Vavanoor

The IEEE student branch of Sreepathy Institute of Management and Technology has conducted an essay writing competition account of Science Day. The aim of the session was to make the new delegates aware of Science and Technology. The session began with the welcome speech by Asst Prof. Aparna.M (IEEE Co-ordinator). The topic of essay writing was delivered by Renuka Ganesh (WIE Vice Chairperson) A total of 21 delegates present and to assist them we had 7 volunteers. The topic given for the competition was the theme of the year 2018 i.e “Science and Technology for a sustainable future”. The session started at 12.50 pm and winded up by 1.50 pm. The winner of this competition was Govind from S2 Civil and he was awarded with a reward. The program just came to an end with the vote of thanks by Sreedarsan M (Link Rep).

### 1.8 MES College of Engineering, Kuttippuram

#### 1.8.1 Sci-Fi movie

As a part of science week celebrations, during the friday long break, an award winning short film ‘Helio’ was presented for the students.



#### 1.8.2 “Science Around Our College”-Photography Contest

A photography contest with the theme “Science around our College” was conducted , which received many entries.

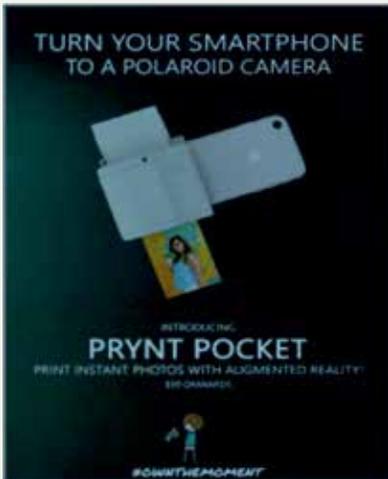
### 1.9 College of Engineering, Vadakara

Science Week was conducted in the College from 1<sup>st</sup> march to 3<sup>rd</sup> march 2018. Science having immense importance in the present world is the pace changer in the worldwide scenario. Through the Science Week, we were able to bring in the pulse of Science in and around College of Engineering, Vadakara. The following events were conducted in our College during this time.

#### 1.9.1 Poster Making Competition.

As a part of Science week IEEE CEV SB conducted a poster making competition. The students were expected to make a poster on any of the “Recent Technological Developments”. The topics were provided

on March 1. The participants were asked to submit their posters before March 3. Few entries were received which came up exciting technological developments. The received posters had explanatory pictures with suitable tag lines as per their chosen topics. The basic idea of studying recent technological developments and conveying their respective ideas through posters were achieved. The winning poster that came up with a creative note, 1<sup>st</sup> prize.



**1.9.2 Science Model Photography Contest**

Photographs are a very important Engineering Tool commonly used to document explorations, observations, laboratory and field test results and as built conditions. Photographs not only help you tell the story to others but can also help remind you about important features of a project.

As a part of Science Week the IEEE volunteers of CEV conducted a Science

model Photography contest. Entries with photos that include science models taken within the campus were welcomed. The participants were asked to send their entries by 2<sup>nd</sup> March. There is always a room for improving the photography skills and editing the pictures is just as important as taking them. Taking multiples of a subject trying different views can help to discover what looks best.



More than 30 entries were submitted that captured beautiful science models around us. Out of which the best 3 photos were selected and awarded with 1<sup>st</sup> & 2<sup>nd</sup> prizes. The competition had a good response and was a good experience to the participants as well as volunteers too.

**1.9.3 Sci-Fi movie premier**

IEEE Student Branch of College of engineering, Vadakara had successfully conducted “Sci-Fi movie premier” on 2<sup>nd</sup> March 2018 as a part of Science Week celebrated from 28<sup>th</sup> February to 3<sup>rd</sup> march of 2018. Mr. Yaaseen Mohammed, IEEE SB CEV Chairperson welcomed the gathering. Mrs. Smitha C K, IEEE student councillor of CEV had officially

inaugurated the programme. There were about forty enthusiastic audience from various departments of College. Ms. Khadeeja Shabana, WIE chairperson of CEV was given with the duty of vote of thanks. The programme was conducted from 12.00 to 1.00pm of 2<sup>nd</sup> March 2018. Sci-Fi Movie is a generation that uses speculative, fiction science based depictions of phenomena that are not normally accepted by main stream Science and also have often been used to focus on political or social issues, and to explore philosophical issues like human conditions.



This programme was designed to improve the scientific quality of students of CEV. The movie played was “SEAM” directed by Elan DAssai which was a visual treat for audience. At the end of program there was feedback session in which attendees of programme actively participated.

### **1.10 Govt College of Engineering, Kannur**

IEEE SB GCE Kannur celebrated Science Week 2018 from 26<sup>th</sup> February

to 5<sup>th</sup> March 2018 as a part of National Science Day, celebrated on 28 February. The day commemorates the invention of Raman Effect by the great Indian Physicist Sir Chandrashekara Venkat Raman. As a part of Science Week Celebration, the SB put forward a week long activities related to science. This included – Expert Talk by Mr Sidharthan P M, retired Scientist, ISRO on the topic ‘Science Missions. Relevance in Today’s World’. Idea Presentation Competition on the theme - ‘Science and Technology for a Sustainable Future’. Photography competition on the theme – ‘Science Around You’ Students participated in each events with great enthusiasm. The SB members actively volunteered to promote the importance of Science and Science Day.

#### **1.10.1 Tech Talk**

The Tech Talk on the topic ‘Space Missions. Relevance in Today’s World’ was organised by IEEE SB GCEK on 28 February 2018, as a part of Science Week Celebration. It was handled by Mr. Sidharthan P, Retired Scientist, ISRO. The expert talk was held at 4 pm at Mechanical Seminar Hall of GCE Kannur. It was open to all students of the College and about 50 students attended the talk. Along with the students teachers also attended the talk with great interest. The event began with a welcome address by Mrs. Laseena Alfred, IEEE SB Counsellor. Mr Sidharthan began the talk with the history of space research. He talked about the contributions of

Russia and America to it. Then he moved on to talk about ISRO, from its humble beginnings to how it put its mark on the world. He shared with the students the necessity of Space Research And Technology, from communication and broadcasting to weather forecasting. He also addressed the mostly asked question in India about Space Research, that is, why spend so much money on space explorations when the amount can be used for the welfare of citizens. He explained how the Space Technology has become an inevitable part of our lives. He also discussed about space exploration in the 21<sup>st</sup> century. The Moon and Mars missions were talked about in detail.

He spoke briefly about ISRO's second lunar exploration mission Chandrayaan-2, the launching of which is planned for April 2018. After he finished his talk, the students were given a chance to ask him doubts. Many of them took this opportunity to get answers for their queries. The program came to an end by 5.30 pm with a vote of thanks by Mr. Khalid, Chairman, IEEE SB GCEK.



**1.10.2 Idea Presentation Competition**

To extract and explore new ideas, IEEE SB GCEK conducted Idea Presentation

Competition as a part of Science Week Celebration 2018. The competition was held on 5<sup>th</sup> March 2018 in S4 EC-A of GCE Kannur at 4.30 pm. It was a College level competition for the members of IEEE SB of GCE Kannur. The theme of the competition was 'Science and Technology for Sustainable Future'. There were a total of 6 participants who were eager to share their ideas. The participants expressed their ideas with the aid of a PowerPoint presentation. The judges for the competition were Prof Sudheesh, Mechanical Engineering Department and Prof Manoj, Electrical Engineering Department. Prof. Hemakumar, former SB Counsellor, attended as a guest.

The competition began with a brief welcome address by Mr. Nandakishore, Co-ordinator of the competition. Each participant had a new and different idea to share. They were enthusiastic to inform and instruct the audience about their ideas. Once the presentation was completed, each participant faced a questionnaire from the judges. The judges also suggested some possible modifications to their ideas. After that they cleared the doubts raised by the audience. Finally, judges announced Anurag T V as the winner whose idea was selected as the best idea among the participants. The winner was awarded with a cash prize of Rs. 500 by Prof. Hemakumar. The judges, audience and fellow participants congratulated him. The event came to an end by around 6.00 pm.

### 1.10.3 Photography Contest

To capture the beauty of science, a photography competition was held on the theme- 'Science Around You' as a part of Science Week Celebration by IEEE SB GCEK. The competition was conducted for IEEE members of the SB. It was an online photography competition and participants were asked to upload their entries without editing. They were also asked to give a catchy caption. The participants were given a time of one week to submit their entries. This competition was aimed to showcase the photography skills of the SB members and more than that to make them think, observe and capture the Science around them.

### 1.11 College of Engineering, Thalassery

In order to commemorate the discovery of the Raman Effect in India by the Indian physicist C.V. Raman in the year 1930. To honor this event, 28<sup>th</sup> of February is observed as a national science day. A particular theme is selected for every year's National Science Day celebration. The theme of this year was 'Technology for Sustainable Future'. National Science Day was celebrated at College of Engineering Thalassery on 3<sup>rd</sup> of March 2018 under the guidance of our IEEE SB chapter. The session was inaugurated by our former IEEE SB Chair Abhishek Nambiar. Our IEEE SB Treasurer Shibin and Secretary Ashin briefed the gathering about the objectives

of celebrating national science day.

As part of the IEEE Science Week, the following programs were conducted.

- Introduction to Science Week
- Talk about Sustainable Technology
- Poster Designing
- Sci-Fi Film Fest
- Photography Contest



Certain contests were also conducted as part of the program to make participants actively take part in it.

#### 1.11.1 Introduction to Science Week

Prior to the activities, participants were grouped into a team of seven. They were given a task to give a small talk about Science Day. Each group completed the task with full enthusiasm. After that Secretary, Ashin presented a presentation about the national science day and the importance of conducting IEEE Science Week. As a follow-up program, each group was given some interesting questions to submit a paper on.

#### 1.11.2 Talk about Sustainable Technology

The next task assigned to the groups was to present an idea about Sustainable

Technologies and to express their own views on using safer and cleaner technologies to make the world a better place. Groups were given ample time to research about their topic. Then a representative from each group was called upon to speak few words about that technology and what they find in that technology that meets the sustainable standards.



### 1.11.3 Poster Designing

A contest was held on poster designing, in which all groups were asked to choose a topic on developing technology according to their interests. Participants were given necessary materials and mentoring to compete in the contest.



### 1.11.4 Sci-Fi Film Fest

In the afternoon section, the film ‘Transcendence’ was showcased. This movie depicts the story of a man’s consciousness getting trapped inside the internet as an AI. Soon the AI turns bad and starts building its own kingdom and hybrid humans. The clash between the human beings and AI is explained with complete detail. This movie also warns the present society about the harm AI can cause if it is not controlled. The response from the participants about the movie was better than thought. They really enjoyed the flick.



### 1.11.5 Photography Challenge

As last challenge participants were asked to take some pictures of something science related around the College. Participants submitted some competition worthy pictures.



## 2. Kochi HUB

IEEE Kochi Hub has observed Science Week in connection with National Science Day which was falling on 28<sup>th</sup> February 2018. The IEEE Kochi Hub conducted 16 events from student branches across the hub. The programs are as follows.

### 2.1 Govt. Model Engineering College

#### 2.1.1 Tech Talk

Talk on Distortion of Science in popular media. Student Branch on Govt. Model Engineering College has celebrated Science Day by conducting a talk on Distortion of Science in Popular Media by eminent Science writer and physicist Dr. S Vaisakhan Thambi. 120 Students participated for the event.



#### 2.1.2 Online Quiz

The IEEE Student Branch of Govt. Model Engineering College has conducted an online Quiz as a part of Science Day exclusively for IEEE Members. 80 Students have participated in the same.



#### 2.1.3 Tech Talk

Talk on Advancement in Bio-medical Engineering and Technology. The IEEE Student Branch of Govt Model engineering College conducted a talk session on Advancement of Biomedical Engineering. The session was handled by Mr. Koruthu P Varughese, Chairman of IEEE EMBS Society of Kerala Section. He is a senior scientist and a pioneer in biomedical engineering.

### 2.2 Govt College of Engineering, Thrissur

#### 2.2.1 Debate Competition

IEEE Student Branch of GEC Thrissur conducted a debate on the topic Science or God. It was conducted in three phases and a total of 30 students participated for the same.



**2.2.2 Paper Presentation Competition**

IEEE SB of GEC Thrissur in collaboration with PES Kerala Section and Kerala State Electricity board jointly conducted a paper presentation competition on the topic electric mobility, power utilities and challenges. 20 students participated for the same.

**2.2.3 A session on Technical Paper writing and presentation**

IEEE SB of GEC thrissur conducted a session on technical paper writing and presentation which was handled by M.Tech Students of the same College. 30 students participated for the same.



**2.2.4 Ham Radio Seminar**

IEEE SB of Govt. College of Engineering Thrissur has conducted a Ham Radio Seminar. 200 Students participated for the same. The session was handled by Shri. John T R, Managing Director Emac Automation Solutions, Shri. MA Shajahan, President ADMC, Shri. Dr. T K Mani, Retd Principal Model Engineering College.



**2.3 St Joseph College of Engineering and Technology, Palai**

**2.3.1 Online idea competition**

In connection with the science week IEEE student branch of SJCT organized an online idea competition. A socially relevant problem was given for which an innovative solution has to be proposed. The competition had 6 entries. This competition boosts up one’s ability to solve the problems prevailing in the society.

**2.3.2 Spectrum Talk**

The IEEE student branch of SJCT coordinated a spectrum talk in connection with science week on 01-03-2018. The talk was about hyperloop, which is a proposed mode of passenger and/ or freight transportation, released by a joint team from Tesla and SpaceX. The talk was delivered by Anto P Biju of S6; EEE. About 50 students were present for the talk. The talk revamped the students’ knowledge about the topic.



**2.3.3 Debate Competition**

The IEEE Student Branch of SJCT organized a debate competition in connection with the Science Week on 03-03-2018. The debate was about

“AI is a boon or bane”. 4 teams of 2 students each participated for the competition. The panel was judged under the guidance of Asst Prof. Dawn Jose and Deepu Job. The debate helped to enhance the scientific knowledge and speaking prowess of students. Abraham Raji of AEI and Nevin Abey Robert of Mechanical Department bagged the first prize. The debate concluded with an inference that AI is a boon to the society.



### 5.3 Adi Shankara Institute of Science and Technology

1) Science Day awareness session. The IEEE Student branch of Adi Shankara Institute of Science and Technology conducted a talk session on “The Importance of Research and Technological Development”. The session was handled by Dr. Anand Raj Hariharan. 40 students participated for the session.



### 2.4 Mar Athanasius College of Engineering

#### 2.4.1 Talk on Block chain and Crypto currency



The IEEE Student branch of Mar Athanasius College of Engineering Conducted a talk session on Block Chain and Crypto Currency which was handled by Jikku Jose, who is a member of Trivandrum block Chain Community. 120 members participated for the same.



#### 2.4.2 Science Quiz

The IEEE Student Branch of MA College conducted a Science Quiz comprising of 38 teams as a part of IEEE Science Week. A total of 76 students participated for the same.

### 2.5 Albertian Institute of Science and Technology

#### 2.5.1 The Raman Effect

IEEE Student Branch of Albertian Institute of Science and Technology conducted a Treasure hunt. There were

6 stages including an online preliminary round. 99 students participated for the event.



**2.6 College of Engineering, Cherthala**

**2.6.1 Online Science Quiz**

IEEE Student Branch of Cherthala College of Engineering conducted an online quiz as a part of Science Week. 50 Students participated for the same.

**2.7 Sahradaya College of Engineering, Kalady**

**2.7.1 Tech quiz on Science Week**

The IEEE Student branch of Sahrdaya College of Engineering and Technology, Kalady has conducted a technical quiz. 150 students participated for the same.

**3. Travancore HUB**

As a part of the National Science Day on 28<sup>th</sup> of March, the IEEE Travancore HUB conducted a week long celebration to emphasise the significance of this day and to instil a sense a technical enthusiasm in the students of various Student Branches in the HUB. A total of 18 SBs actively conducted various events like quizzes, seminars, workshops and webinars. 30 events were conducted in total.

**3.1 College of Engineering, Adoor**

**3.1.1 Quiz competition**

As a part of Science week conducted from 26<sup>th</sup> February to 30<sup>th</sup> February, IEEE SB CEA organised a science related offline quiz program. This program was conducted on 6<sup>th</sup> February during 12.30pm to 1.30pm. It was well organised with the active participation of students of second year. About 250 students had participated. The winners of the quiz were given with the prizes and among these a second round of programme is conducted further.

**3.2 College of Engineering, Attingal**

**3.2.1 Project presentation competition**

Project presentation competition was conducted on 28<sup>th</sup> of February with a participation of twenty eight students in teams of four.

**3.3 College of Engineering, Trivandrum**

**3.3.1 Online quiz competition**

An online Science related Quiz was conducted and the winner was awarded a cash prize of Rs. 1000. It was a weeklong competition that saw a participation of 65 students.

**3.4 Government Engineering College, Barton Hill**

**3.4.1 Quiz Competition**

A Science Quiz was organised with a participation of fifty students in teams of two on 28<sup>th</sup> of March. The contestants were evaluated based on questions from current as well as pioneering works in the science field.

### **3.5 John Cox CSI Institute of Technology**

#### **3.5.1 Quiz Competition**

A quiz based on various branches of science were conducted on 3<sup>rd</sup> March with a participation of 25 students.

### **3.6 LBS Institute of Technology for Women**

#### **3.6.1 Repairo Workshop**

A Repairo workshop on components of domestic appliances with a participation of 50 students.

#### **3.6.2 Industrial Visit**

Site visit to the Biomedical Laboratory of Sree Chirithra Thirunal College of Engineering with a participation of 20 students was conducted.

#### **3.6.3 IEEE Spectrum Talk**

IEEE spectrum talks were also conducted throughout the week with a participation of 10-15 students.



### **3.7 Marian Engineering College**

#### **3.7.1 3D's Max workshop**

A workshop on 3Ds Max in association with CAD Centre, Trivandrum was conducted on 25<sup>th</sup> February with a participation of 38 students.

#### **3.7.2 Game Development workshop**

A Game Development workshop was also conducted on 25<sup>th</sup> February using JavaScript and HTML with a participation of 50 students.

### **3.8 Mohandas College of Engineering and Technology**

A total of four events were conducted on 27<sup>th</sup>, 28<sup>th</sup> and 29<sup>th</sup> of February -

#### **3.8.1 A Science Related Debate**

#### **3.8.2 Quiz**

#### **3.8.3 Idea Presentation**

#### **3.8.4. Collage**

500 students actively participated.

### **3.9 Mount Zion College of Engineering**

#### **3.9.1 Tech Talk**

#### **3.9.2 Quiz**

A week long celebration was held that included a talk and a quiz on various branches of science. 8 participants took part in the talk and 23 for the quiz.

### **3.10 Sree Chithra Tirunal College of Engineering**

#### **3.10.1 Poster design competition**

A poster designing competition was conducted on 28<sup>th</sup> of March with a participation of 10 students

### **3.11 TKM College of Engineering**

### 3.11.1 Quiz contest

IEEE SB TKMCE became a part of Science Day celebrations by conducting a Science Quiz Competition. The quiz competition was open for all students of our College. It was held on March 1<sup>st</sup>, at EEE Seminar hall. The competition saw an active participation from 21 teams, each team comprising of two members.

The quiz majorly covered topics from all fields of Science and Technology. A preliminary round of 15 questions was conducted, from which top six teams were selected for the finals. The finals had three rounds and it was quite interesting which covered the current affairs in the field of Science and Technology.



### 3.12 UKF College of Engineering

**3.12.1 A talk by Dr C G Sukumaran Nair, Rtd ISRO Scientist**

**3.12.2 Workshops on Coding, Circuit Debugging**

**3.12.3 An Exhibition on Design Engineering**

**3.12.4 A Science related debate and a Group Discussion**

The events were held on 3<sup>rd</sup> March with a participation of 70 to 100 students.



### 3.13 TKM Institute of Technology

#### 3.13.1 Quiz Contest

IEEE TKMIT SB conducted its Science Day Celebration on 28<sup>th</sup> Feb 2018 at TKM Institute of Technology as a two hour session where the first included a general Science Quiz and second a group discussion on the importance of Science in daily life. The session had a participation of around 25 IEEE members. The event was conducted from 12.00 noon to 2.00 pm.

#### 3.13.2 Group Discussion

Once the students were done with the quiz the topic for group discussion was given. 10 minutes were given for preparation and 30 minutes for the discussion. Students came up with various ideas to focus on more on the development and well as statistical datas too. It was winded up with a small feedback from the students.

### 3.14 College of Engineering, Perumon

As a part of Science day celebration, the IEEE student branch of College of Engineering Perumon organized a quiz competition for the students.



### 3.14.1 Quiz Contest

The Quiz Competition had two rounds. The preliminary round was conducted on 27-02-2018, and the final round was conducted on 28<sup>th</sup> February. A total of fifteen teams with each team having two members participated in the

preliminary round, out of which three teams were selected and they competed for the first, second and third position in the final round of quiz on the second day. The questions were based on Science, Engineering, Maths and General Knowledge. The winners were awarded with certificates.

Conclusion

Total SB events . 80+

Total SB participation . 60+

Created an awareness about Science Day among the student communities of IEEE Kerala Section.

Successfully planned and conducted various events in the name of Science Day in almost all the student branches across Kerala Section.

## Conference Organizers Workshop

If you want to organize an IEEE Conference and want to get trained on important know how's of taking up a quality event, attend this workshop, which is the right place for you. Mini Panel of Conference Organizers Workshop is being organized by IEEE India Council in Collaboration with IEEE Hyderabad Section which is scheduled at Vizag on 20<sup>th</sup> May 2018. This event is comprised of seminars & focused sessions with plenty of opportunity for participants to exchange ideas, success stories and challenges with other IEEE Conference Organizers community. This one Day workshop will offer Networking opportunity with the experienced Conference Organizers.

*This event is open to NON STUDENTS ONLY.*

**When and Where.** 20<sup>th</sup> May 2018, Sunday, Hotel Palm Beach  
Vishakapatnam, India

Register immediately.

## WiE WAVE 2.0

March 1<sup>st</sup> - 10<sup>th</sup>

Reported by. Sabarinatha Pillai

### About WiE Wave

March 8<sup>th</sup> is internationally celebrated as Women's Day. To celebrate the spirit of womanhood, the student community of IEEE Kerala Section Women in Engineering team of IEEE LINK decided to commemorate the essence of being a woman. The highlight of the wave was that the events conducted, from financial arrangements to transportation arrangements were coordinated exclusively by girls.

With the theme "Embrace & Empower", the WiE team was able to pass on a single motto, to make our girls independent in all terms. Each HUB found a way to reach out to their members. With workshops and sessions conducted under this banner; we had multiplied the satisfaction of members as well as the WiE events. Women's Day activities of IEEE LINK were conducted under the name 'WiE Wave'. More than 120 events were conducted across Kerala, each parading the never fading fire and passion within them.

The WiE Wave 2.0 was the second edition of International Women's Day (IWD) celebration put forward by the IEEE LINK in association with the International Women's Day falling on 8<sup>th</sup> March, 2018. WiE Wave focuses on enabling women to come up with initiatives for themselves. This year, WiE Wave 2.0 was scheduled from March

1-10, 2018 but the student branches were free to conduct programs in association with it before/after the mentioned dates. This year 40% more events were conducted across Kerala compared to last year as a part of IWD.

### Implementation

Throughout the process of implementation the core aim was to enrich the technical and social skills of girls to make them independent in the Society as well as to help them to grow as a person.

Each HUB was given their own space of how to carry forth the WiE Wave in their HUBs. The only criterion put forth was that the event conducted is managed exclusively by girls.

With the theme evolving around "woman"; the final outcome of each event ensured that the girl members learned a new knowledge to sustain independently.

With an open platform of ideas, Travancore HUB came up with multiple sessions and workshops open for its girl members.

Kochi HUB came up ideas to coordinate technical workshops zone wise.

Malabar HUB put forth the idea to organize a week long events to give space for a numerous suggestion they received from their Student Branches.

## Benefits

- Able to organize events managed exclusively by girls.
- Introduction of new WiE volunteers.
- Introduction of WiE Affinity Groups in considerable amount of Student Branches.
- Active participation from nearly every Student Branch of IEEE Kerala Section was clearly visible.
- A total of 120+ events were conducted.

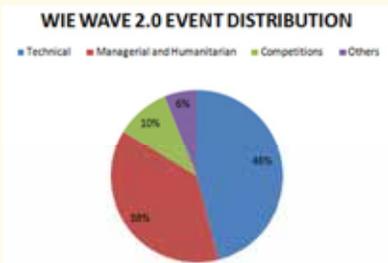


Figure 1 shows the event distribution of WIE WAVE 2.0

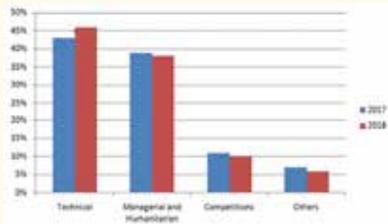


Figure 2 shows the event distribution of WIE Wave 1.0 and WIE Wave 2.0

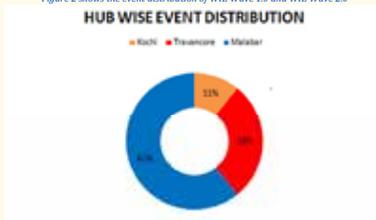


Figure 3 shows HUB wise event distribution of total 120 events

## Reports

### 1.KOCHI HUB

The IEEE Kochi Hub conducted around 13 events with active participation of around 850 delegates from student branches across the hub. The programs are as follows .

### MINERVA 3.0

The IEEE Kochi Hub organized the third edition of “Minerva” – a WiE Exclusive program held in connection with the International Women’s Day and WiE Wave 2.0. This year, Minerva focused on a the idea of empowering the women in our student community technically. An inventive program initiated at every zonal Minerva was acquainting the WiE members with “Domestic Technology and its possibilities”.

Minerva 3.0 for Zone 5 was held at College of Engineering, Cherthala on 3<sup>rd</sup> March 2018 from 10 AM – 4 PM with around 63 delegates from various Colleges across Zone 4. The program was inaugurated by Ms. Mini Ulanat, Chair, WiE AG, IEEE Kerala Section. It comprised of a session on domestic technology followed by a hands-on training in the labs. It ended with a session on the career/higher study options available for girls by Mr. Shahul Hameed, YP, IEEE Kerala Section.



Minerva 3.0 for Zone 4 was held at Amal Jyothi College of Engineering, Kanjirapally on 9th March, 2018 from 10 AM – 4 PM. There were around 50 participants from various student branches across the zone for the same. The program included an inaugural ceremony and introductory session on Domestic technology followed by hands-on training in the labs for the same. The latter part of the day saw a talk by Ms. Megha Ben, Regional Student Ambassador, IEEE CS on the various scholarship opportunities available for girls.



Minerva 3.0 for Zone 2 was held at Model Engineering College, Thrikkakara on 10<sup>th</sup> March, 2018 from 10.00am – 4.00pm. The program was participated by around 36 delegates from various student branches across the zone. The program comprised of Ice Breakers, a session by Ms. Megha Ben on the scholarship opportunities available for girls, a hands-on training session on sound engineering and Adobe Illustrator.



Minerva 3.0 for Zone 1 and Zone 3 was held at University College of Engineering, Thodupuzha on 9th March, 2018 from 10.00 am – 4.00pm. There were around 20 participants for the same. The program was inaugurated by Ms. Deepika MP, Outstanding Women in Engineering award winner by the Women Foundation VIWA for the year 2018. The program comprised of a practical session on basic domestic technological works, a membership development session and a session on WiE.



**Online Video Challenge**

An online 1 minute video challenge was introduced by IEEE Kochi Hub wherein WiE members would post a 1 minute video on the topic “Why WiE stand out” and post it on social media and challenge others to do the same.

**Student Branch Events**

As part of WiE Wave 2.0 and International Women’s Day, a one day program was arranged at Sahrdaya

College of Engineering and Technology on 8<sup>th</sup> March 2018 with about 150-200 participants.



A two day program named “Kajal 2.0” was held at Adi Shankara Institute of Engineering and Technology, Kalady on 27<sup>th</sup> and 28<sup>th</sup> February, 2018 with about 118 participants in accordance with WiE Wave 2.0.

A session for WIC members was arranged by the WiE Affinity Group of Adi Shankara Institute of Engineering and Technology, Kalady on 6<sup>th</sup> March, 2018 with about 32 participants.

International Women’s Day celebrations were organized by the WiE AG of Adi Shankara Institute of Engineering and Technology, Kalady on 8<sup>th</sup> March 2018 with about 88 participants.



As part of WiE Wave 2.0, an online photography contest was organized by

the WiE AG of St. Joseph’s College of Engineering and Technology, Palai with around 30 participants.

An online selfie contest was conducted by College of Engineering, Cherthala in accordance with WiE Wave 2.0 which saw around 25 entries.

An idea presentation competition called “Silhouette” was organized by Model Engineering College, Thrikkakara on 10<sup>th</sup> March, 2018 with around 17 participants.

Women’s Day celebrations were held for almost a week at College of Engineering, Chengannur with 100+ participants



The above is a brief summary of the programs conducted as part of WiE Wave 2.0 in IEEE Kochi Hub.

## 2.Travancore Hub

### VIRAGO 1.0

IEEE Travancore Hub celebrated International Women’s Day in the name VIRAGO 1.0 as a part of WiE WAVE 2.0 at John Cox Memorial Institute on 8 march. The event mainly aimed to felicitate and honor some great women personalities from different sectors of society along with a panel discussion

with them. Also the event provided a great opportunity for students to interact with these personalities. The event commenced with an inaugural ceremony which was formally inaugurated by Smt Mini Ulanat, Chair IEEE WiE Kerala Section, also presence of special guests Ms Ardra Chandra mouli and Ms Aisha Nazia graced the occasion. An interactive Panel Discussion was also conducted with these personalities along with Ms Geethu Sivakumar and Mrs Suchithra Raman. There was a wonderful session handled by Ms Pooja Manju. More than 60 participants attended the event.

the function along with that a panel discussion was also conducted with some of great women personalities from different sectors of Society. Presence of Smt Lissy Jacob, Dr Arifa Sainudeen, Smt Chandramati, Er Sarada Jayakrishnan, Dr Meena T Pillai graced the occasion.



IEEE Travancore hub mainly focused on women Health Hygiene and Safety as well as followed the International Theme for progress each and every SB under Travancore hub followed the common theme and conducted events accordingly.

IEEE PES Society Kerala Chapter along with IEEE Life Member affinity group, IEEE WiE and IEEE Women in power together organized a formal event at Vakkom Moulavi Foundation Hall on 7<sup>th</sup> March. Dr TN Seema inaugurated

**SB Events**

**2.1. TKM College of Engineering**

**2.1.1. Photoshop Workshop**

IEEE WiE Chapter of TKMCE in association with IEEE PES chapter hosted a one week long workshop commencing from 8 March on photoshop exclusively for all lasses of institution The session was conducted by Rahul bharathan a bonafide student from tkmce itself the girls gathered with full enthusiasm to master the new skills. Various techniques to refine retouch and enhance photos were taught. A tutorial session was conducted to teach them about different posters at the end of session a poster designing competition was conducted on topic women health and hygiene.

**2.1.2. Women in Technology**

IEEE SB TKMCE organized. Women in Technology answering some questions and a web development workshop for girls. The event conducted in compliance

with Women's Day 2018 presented Enfa Rose George and Sreepriya Radhakrishnan, Co-founders of PEHIA Group, a non-profit organization.



### 2.1.3 Video Editing Workshop

As a part of IWD IEEE WiE along with PES Kerala Chapter hosted a week long workshop of video editing for girls participants were tutored by Rajesh SR the event was well organised and executed students were taught tactics to cut trim zoom etc.



### 2.1.4 Women of World

Arya Murali, co-founder of online community the 'Rethink Foundation' paved her way to the heart of audience by putting forth an exhilarating narration of events that steered her life through all seemingly impossible ways while Arya captivated the minds of many Sajna Ali was all set to inspire yet another lot.



## 2.2 Marian College of Engineering

### 2.2.1 Talk on Women Health and Hygiene

As a part of Women's Day Celebration, IEEE SB MCE has organized a talk on Women Safety and Hygiene. Dr. Santhamma Mathew along with Dr. Divya was invited as the chief guest. Female students of S4, S6 and S8 along with the department HODs and teachers were invited. The chief guest along with the Principal, Bursar and Civil Department HOD occupied the dais.



## 2.3 Mohandas Engineering College

### 2.3.1 Poster Designing Competitions

### 2.3.2 Essay Writing

### 2.3.3 Self Defence Training

### 2.3.4 Talk on Health and Hygiene

As part of Women's Day Celebration, IEEE SB MCET has organized one week

program. A poster designing competition was conducted on the topic, Health, Hygiene and Safety. Also an essay writing competition was conducted about the social stigma prevailing in the society related to women. On March 7<sup>th</sup> a self defense training was given for female students of S6 and S8 by self-defense team of Kerala Police. The training session started a 1.30 pm a Civil Mini Auditorium. A total of 100 students attended the session.



**2.5. College of Engineering, Karunagapally**

**2.5.1 Quiz**

**2.5.2 Session an Health and Hygiene**



**2.4 College of Engineering, Kottarakara**

**2.4.1 Self Defense Workshop**

As a part of women’s day celebration, the WiE of IEEE SB CEK organized a self defense workshop on 9<sup>th</sup> March 2018 with the vision of empowering women. Shri Anitha Kumari P, Inspector of police, Kollam Rural Women Cell was invited as the chief guest. She was accompanied by three other female Police Officers. The Chief Guest along with the principal, IEEE staff in charge and the HOD of EC department and Applied Science occupied the dais. More over the female students of S2, S4 and S6 along with the teachers were invited.



IEEE Student Branch, College of Engineering Karunagapally (IEEE SB CEK) had decided to conduct a two days program in association with WIE (Women in Engineering) affinity group as the part of Women’s day celebration on 8<sup>th</sup> and 9<sup>th</sup> of March 2018 An interactive session was taken by Dr. Jyothilekshmi on the topic “Health

and Personal Hygiene". There was an active participation of 60 students from all branches. The session was very helpful and effective. The winner of quiz competition Reena Yohanan was awarded a cash prize of Rs.500 and special WiE kit by our beloved Principal Dr. Jaya V L as a token of appreciation. Dr. Jyothilekshmi distributed the WiE Kit to all the IEEE members.

## **2.6. Mount Zion College of Engineering**

### **2.6.1. Talk on Women in Society**

As a part of Women's Day Celebration, IEEE SB MZC has organized a talk on Women in Society. Dr. Anu P.T (HOD, Dept of Malayalam) Catholicate College, Pathanamthitta was invited as the chief guest. Female students of S2, S4, S6 and S8 along with the department HODs and staffs were invited. The Chief Guest along with the Principal, Director and HOD of department occupied the dais.



## **2.7 College of Engineering, Pathanapuram**

### **2.7.1 Talk on Health and Hygiene**

On 7<sup>th</sup> March 2018 the WiE unit of College of Engineering Pathanapuram

celebrated women's day. Some activities were also conducted by the SB. The staffs of the College form the cleaning section were provided with gloves and masks. It was handed over by our beloved Principal Dr. Anandhareshmi ma'am. It was followed by a talk from her about women's day and hygiene. She also talked about the high positions achieved by women. That small section conducted was very fruitful.



## **2.8 SCT College of Engineering**

### **2.8.1 Talk on Menstrual Cycle**

Talk on Menstrual Hygiene as part of Womens Day Celebrations, WiE organised an interactive session on 'Menstrual Hygiene' on 8th March 2018 at 4.30pm in Seminar Hall 2 and was indeed honourable to have Dr Prameela Joji of KIMS Hospital as the guest of honour. The humorous way in which the session was handled helped the students and the guest to have an open discussion on many things which usually girls feel shy to ask. She also reminded us about how important it is to maintain good hygiene and the need for a healthy diet. The talk was indeed of great use to all the students.

**2.8.2 Women in Data Science**

Awareness on Women in Data Science- There are plenty of job opportunities for girls in the field of Data Science. Many of us are unaware of the same. Hence WiE IEEE SCTSB hosted a one small interactive session on WiDS by Brahmadata M R of T6 A on March 9<sup>th</sup>. We streamed the video on the Women in Data Science Conference at Stanford University and interactive videos on the What Data science is? And the tremendous opportunities it provide. The session was really inspiring and informative for each and everyone of us. Brahmadata being a volunteer of WiDs in India, provided an open discussion platform on the various opportunities available for us to network, and improve oneself in various fields.



**2.9 Government Engineering College, Barton Hill**

**2.9.1 Talk on safety**

WiE IEEE of IEEE GECB student branch had its unique way of celebrating

women’s day. In line with the theme for IWD 2018, Press for progress, WiE had yet another enlightening interactive session with the women of GECB. The program was conducted on 8th March. Dr. B. Sandhya IPS was the chief guest of the session. Our principal Ms Rajasree and our UG Dean, Dr. Sreekumar graced us with their presence. Chief guest urged the students to utilize their engineering skills for common good. She also emphasized that the Police Force is willing to work with budding talents like the young engineers who have a lot to contribute towards the society. The students can work with them as a part of internships or projects. Later, she answered questions asked by students pertaining to the difficulties women face today.

A week long competitions were arranged prior to the IWD celebrations. The session ended with the prize distribution ceremony. About 100 students attended the session in the Zoom IT hall. There was a live telecast of the session in the Mini Auditorium as well. About 100 students listened from there too. Refreshments were provided at the end of the session. Each girl walked out of the auditorium feeling empowered and happy.

**2.10 College of Engineering, Adoor**

**2.10.1 Idea Pitching Competition**

**2.10.2 Poster Designing Competition**

As part of WiE WAVE, IEEE SB CEA has organised ‘Pitch Perfect’ an idea pitching competition and a poster designing

workshop on Women's Safety on March 2nd. It was a national level program with participation of students from various Colleges. The event started by 10.30 am with a participation of 40 students. The participants were to pitch their ideas on women safety with the support of a poster designed by themselves. A workshop was given to them on poster designing prior to the competition by Mr Ashik K. S. (Former Designer, IEEE INDIA council) Participants cooperated well with great enthusiasm. After the workshop, an hour was provided to them for designing the poster and they were to pitch their ideas within a time limit of 10 minutes. The winners were selected on the basis of presentation skill, idea and the poster designed. A cash prize worth Rs. 5,000 and certificate were distributed.



## 2.11 UKF College of Engineering

### 2.11.1 Talk by Meera Chandran

### 2.11.2 Online Idea Pitching Competition

### 2.11.3 Talk by Shyni Rajkumar

The IEEE SB UKFCET celebrated International Women's day on 10th March 2018, Saturday from 9.30 am to 12.30 pm. As part of it two talk sessions, Cricket team inauguration, Mask Donation for the cleaning staff and cultural programs by female teachers were conducted. Masks were handed over to the Superintendent of the cleaning staff by Ms. Shyni Rajkumar. Followed by the Talk session of Shyni Rajkumar. She talked of her journey and how she battled against the odds to chase her dreams. It was an inspiring talk for all the female members. After the session the Women's cricket team of UKFCET was inaugurated by Shyni Rajkumar.

Next was talk session by Meera Chandran, an artist and the Founder of "MANNU". She talked about passion and art and her journey in forming MANNU. She inspired the audience to follow their passion.



**2.12 LBS Institute of Technology for Women, Trivandrum**

**2.12.1 Quiz**

**2.12.2 Poster making competition**

LBSITW is a womens engineering College and a day like Women’s day holds great significance for every LBTians. Our IEEE SB also organised some event as part of WiE week activities. On 15th March, a Quiz Competition was conducted with the topic as “Women empowerment”. It was a team event with a team comprising of two members. The questions were based on women who overcame societal prejudices and stereotypes and accomplished things for the first time, thus setting an example for all the ladies out there. It was a contest open for both IEEE as well as non IEEE members from the College. The event saw a great deal of participation and high level of enthusiasm from the students. It was a written quiz competition and the teams put together their heads to win the competition.

Also a Poster Making Competition was conducted during the same day which again produced mass participation from the part of students. Again it was a group event. The topic for Poster Making was given on spot. The contestants came up with some great posters. The SB’s Branch Councillor Nandan sir acted as the judge and selected the winning posters. The results were declared on the following

day. The IEEE SB execom members volunteered during both the events.



**2.13 Mar Baselios College of Engineering**

**2.13.1 Talk on Women Empowerment**

IEEE MBCET along with WSU had hosted a talk conducted by Ms.Dhanya Sanal IIS. Attended by various students from different departments she shared her viewpoints about women empowerment and experience as a woman in society



**2.14. College of Engineering Perumon**

**2.14.1 Talk on Future Technology**

**2.14.2 Talk on Health and Hygiene**

The IEEE Women’s Day 2018 celebrations were conducted in our College on March 8<sup>th</sup> 2018. The function was inaugurated by the principal. IEEE student members and other students actively participated in the celebrations. Our Branch Counselor Mr. Abhilash R S presided over the function. HODs and staff members of different departments also took part in the function. Our EC department HOD

Dr. Biju Kumar S conducted a challenges on Future Technology. 50 students from different branches attended the function. The vote of thanks was presented by Ms Jesna Joseph IEEE Secretary.



## 2.15. TKM Institute of Technology

### 2.15.1 Women Entrepreneurship

### 2.15.2 Talk on Health and Hygiene

International Women's Day was celebrated by WiE Affinity Group of IEEE TKMIT SB jointly with the NSS unit and the Women's Grievance Cell on March 8<sup>th</sup> 2018 at TKM Institute of Technology. The event was conducted as a one day program. It was hosted at the Main Seminar Hall. The event had mainly three sessions which focused mainly on the areas that lacked women participation and the issues women hesitates to openly discuss regarding their health and hygiene and the opportunities like scholarships for girls in academia. The event commenced at 11.00 am with the inauguration section. Mr. J Jacob, DYSP Kottarakara served as the Guest of honor; an efficient police officer who has received the Chief Minister's medal and who has worked with UN twice. Inauguration was in the presence of

several dignitaries like Mr. J Jacob, Dean of the institution Prof. Madhusoodanan Pillai, the first speaker of the day Ms. Rashmi Sukumaran, Women Grievance Cell coordinator.



## 2.16 College of Engineering, Attingal

### 2.16.1 Self Defense Training

IEEE SB College of Engineering Attingal celebrated the spirit of women hood with "CZARINA 2.0", as part of International Women's day. The WiE Affinity Group conducted a workshop on Self defence on 10<sup>th</sup> March, 2018 from 1.30pm to 4.00pm at College of Engineering Attingal. Mr. Gokul Krishna (Brown belt) was the instructor for the self defence workshop. The event started with the introduction to Self Defence and later on interactive sessions happened. The event saw more than twenty-five girl students of the College participating. The session was very interactive. The students actively participated and repeated the Self Defence Techniques promptly.



**3. Malabar HUB**

**3.1 Vimal Jyothi Engineering College, Chemperi**

**3.1.1 Technical Talk**

A Technical talk was conducted in connection with Women’s Day celebration IEEE SB VJEC WiE Week in Vimal Jyothi Engg College. A technical talk was organized a s part of Women’s day celebration IEEE SB VJEC WiE week programs on March 8th. The program began by 10.00am. The introductory speech was delivered by Megna. Sudeep, WiE Student Chair. The welcome speech was delivered by Prof Laly. James, IEEE SB Counselor & IEEE WiE Vice Chair Kerala Section. The inauguration and inaugural address was given by our Chief Guest Mrs. Anusha Dhas IES, Asst Director, Central Electricity Authority of India, New Delhi. Followed by Chairman’s Address by Rev. Fr. Dr. Thomas Melvettath. Presidential address by Dr. Benny Joseph. Felicitation was given by Rev. Fr Jinu Vadakkemulanjinaal and Vote of thanks was given by Ms. Lijina K, Staff advisor IEEE WiE VJEC. Mrs Anusha Dhas IES, Asst Director, Central Electricity Authority of India, New Delhi had delivered an inspirational speech on the auspicious day. She had enlightened all of us to aspire for greater heights. She had an abundant knowledge about all in the electric field and had shared so many

technical ideas and facts regarding the industry. She had also shared her success mantra in achieving IES and opened up on how she reached so far after facing so many challenges. She also showed how family support can lead you to greater heights. The talk was very much inspiring to everyone present. Finally questions were asked and doubts were cleared. She had lit the fire on each one of us to aim for IES. About 130 students plus staff attended the program. Everyone volunteered and cooperated well. The session was concluded by 12.00pm and was a grant success.



**3.1.2 Purple Ribbon Symbolising Gender Equality**

An IEEE WiE initiated program was conducted in Vimal Jyothi Engineering College on 15<sup>th</sup> March 2018 in association with IEEE SB VJEC WiE Femina 2018 as part of the women’s day celebration On Women’s Day all student branch members were tied a purple ribbon for symbolizing the gender equality.



### 3.1.3 Debate Competition



An IEEE WiE initiated program was conducted in Vimal Jyothi Engineering College on 15<sup>th</sup> March 2018 in association with IEEE SB VJEC WiE Femina 2018 as part of the women's day celebration. A debate competition was conducted in association with IEEE SB VJEC. The program began by 4.30pm. There were about 30 participants from different department. The topic was "Should we Celebrate Women's Day?" The coordinators organized the event smoothly and was well cooperated by

participants. There was a panel for judgment as well as a debate master for the smooth running of the program. There was active participation from both the for and against team. The competition was a grant success and came to an end by 5.15 pm.

### 3.1.4 Quiz Competition

An IEEE WiE initiated program was conducted in Vimal Jyothi Engineering College on 15<sup>th</sup> March 2018 in association with IEEE SB VJEC WiE Femina 2018 as part of the women's day celebration. Competition was conducted in association with Women's Day. The program began by 12.15pm. There were about 30 participants from different department. The quiz competition was based on the women around the globe. The coordinators organized the event smoothly and was well cooperated by participants. The competition was a grant success and came to an end by 12.50 pm.



### 3.1.5 Essay Writing Competition

An IEEE WiE initiated program was conducted in Vimal Jyothi Engineering College on 14<sup>th</sup> March 2018 in association with IEEE SB VJEC WiE Femina 2018 as part of the women's day celebration. A essay writing competition was conducted in association with IEEE SB VJEC. The program began by 12.15pm.

There were about 26 participants from different department. The topic for the competition was “The lady who inspired you most”. The coordinators organized the event successfully and was well cooperated by participants. The coordinators get a better feedback from the participants. The competition came to an end by 12.50 pm.



**3.1.6 Group Discussion**

An IEEE WiE initiated program was conducted in Vimal Jyothi Engineering College on 16<sup>th</sup> March 2018 in association with IEEE SB VJEC WiE Femina 2018 as part of the women’s day celebration. A group discussion was conducted in

association with IEEE SB VJEC. The program began by 4.10pm. There were about 20 participants from different department. The group discussion was based on Women Make the Backbone of the Society, do they Make Better Leaders. The coordinators organized the event smoothly and was well cooperated by participants. The competition was a grant success and came to an end by 5.00 pm.

**3.1.7 Team Building Initiative**

An IEEE WiE initiated program was conducted in Vimal Jyothi Engineering College on 19<sup>th</sup> March 2018 in association with IEEE SB VJEC WiE Femina 2018 as part of the women’s day celebration. Team building activities was conducted in association with IEEE SB VJEC. The program began by 4.30PM. There were about 25 participants from different department. The activities was based on team building. The coordinators organized the event smoothly and was well cooperated by participants. The competition was a grant success and came to an end by 5.30 pm.



**3.1.8 Spell Bee Competition**

An IEEE WiE initiated program was conducted in Vimal Jyothi Engineering College on 15<sup>th</sup> March 2018 in association

with IEEE SB VJEC WiE Femina 2018 as part of the women's day celebration. A quiz competition was conducted in association with IEEE SB VJEC. The program began by 12.15pm. There were about 30 participants from different department. The quiz competition was based on the women around the globe. The coordinators organized the event smoothly and was well cooperated by participants. The competition was a grant success and came to an end by 12.50 pm.



### 3.1.9 Presentation Contest

An IEEE WiE initiated program was conducted in Vimal Jyothi Engineering College on 21<sup>st</sup> March 2018 in association with IEEE SB VJEC WiE Femina 2018 as part of the women's day celebration. A PPT Presentation Contest was conducted in association with IEEE SB VJEC. The program began by 12.15pm. There were about 10 participants and 40 students from different department. The competition was based on Women Around The Globe. The coordinators organized the event smoothly and was well cooperated by participants. The competition was a grant success and came to an end by 1.00 pm.



### 3.1.10 Innovative idea presentation

An IEEE WiE initiated program was conducted in Vimal Jyothi Engineering College on 22<sup>nd</sup> March 2018 in association with IEEE SB VJEC WiE Femina 2018 as part of the women's day celebration. An innovative idea presentation competition was conducted in association with IEEE SB VJEC. The program began by 12.15pm. There were about 20 participants from different department. The competition was based on the Ideas for Women Safety. The coordinators organized the event smoothly and was well cooperated by participants. The competition was a grant success and came to an end by 1.00 pm.



### 3.1.11 TEDx talk

An IEEE WiE initiated program was conducted in Vimal Jyothi Engineering College on 15<sup>th</sup> March 2018 in association with IEEE SB VJEC WiE Femina 2018 as part of the women's day celebration. An inspirational TEDx talk was shown

in association with IEEE SB VJEC. The program began by 4.00pm. There were about 30 participants from different department. The talk was by an Austin Women Lizzie Valasquez on “How do you define yourself”. The coordinators organized the event smoothly and was well cooperated by participants. The competition was a grant success and came to an end by 4.30 pm.



**3.2 College of Engineering, Thrikarippur**

**3.2.1 Coding Workshop**

As part of WiE WEEK celebrations, a coding workshop was conducted for the students of College of Engineering Trikaripur. The session was handled by Midhun M (the former chairman of IEEE SB CETkr and a final year CSE student). Students from various departments interested to learn basics of C Programming attended the workshop.

**3.2.2 Flash mob**

A flash mob was performed as a part of WiE Week celebration aiming to create awareness about women empowerment and gender equality among students.

**3.2.3 Coding competition**

To identify and to bring out the lady coders of College of Engineering Trikaripur, a coding competition was held exclusively

for girls. The event marked its success with active participation of lady coders.

**3.2.4 Honoring and thanks giving to non-teaching staffs**

On 8<sup>th</sup> March, Women’s Day, all the non-teaching staffs of our College were honored and gifted with some creative gifts prepared by the students itself.

**3.2.5 Let Me Speak**

The initial phase of the hub level speech competition was successfully completed by the active participation of students. The event was recorded and videos submitted to hub representatives.

**3.2.6 Open stage**

An open stage was organized for all IEEE members to talk about one women personality who has inspired them immensely.

**3.2.7 Talk by Anusha**

A talk on stereotyping of women in Indian society was handled by Ms Anusha M P, a TEDx speaker and current Chairperson of IEEE SB CETkr.

**3.2.8 Motivational speech by Mr. Ajith**

A woman is always considered far superior than men. And when a man himself says so the impact was much more. A talk by Mr Ajith Aloysius on women and the often covered things, was truly a motivating one for all the ladies.

**3.2.9 Selfie Contest**

A selfie contest was held as part of WiE Week where the participants were to send a selfie with their biggest strength and asset- their mother.

### 3.2.10 Essay Competition

With an attempt to explore and nourish the talent of the students, as a part of WiE week IEEE SB CETKR organized an essay competition on the topic Gender Equality. There were number of writes ups with excellent outlook on current national issues. Through a critical judgment the best three writes ups were awarded with IEEE WiE week goodies.

### 3.2.11 Debate

As a part of WiE week celebration College of Engineering Trikaripur organized a debate on the topic Humanoid. There were active participants with clear idea about humanoid. Debate was intended to point out the pros and cons of humanoid in society.

## 3.3 Government Engineering College, Wayanad

### 3.3.1 Inauguration

IEEE SB GECW, in connection with International Women's Day, has holded the inauguration of its WiE Affinity group on March 8<sup>th</sup>, 2018 at 9.45 pm from the Virtual Room. Mrs. Lyla.B.Das, The Associate Professor of NITC has inaugurated the function and coloured the ceremony with her great presence. The advisor of WiE Affinity group of our College Prof. Bindu, EEE Department and our branch counselor Mr. Shabeer K.P has given the presidential address. The Affinity Group has started with the aim of empowering women to take up challenges in their interested areas and to excel in it. Joy was shared by distributing

the sweets after the inauguration. A session was also conducted after the function by the Chief Guest.



### 3.3.2 Seminar

IEEE SB GECW has holded a District Level Seminar Competition of 9<sup>th</sup> Seminar Series conducted by KSEB Engineers Association and supported by IEEE Power and Energy Society on 9<sup>th</sup> of March, 2018 at 12.30 pm from the Virtual Room. Three groups of 2 people have presented their papers in front of the judging panel. Judges has also asked certain questions to check the deepness of knowledge in the topic. The group of Afnan Nazer and Vivek has won the competition. Two groups were selected for the State Level Competition that would be conducted at Trivandrum.



### 3.3.3 Poster Designing Competition

IEEE SB GECW, as a part of WiE Week has conducted a Poster Designing Competition on 16<sup>th</sup> of March 2018 at 4.30 pm from the CSE Seminar Hall.

A total of 10 people as groups of 2 has participated in the competition. The groups came up with different kinds of posters for expressing their view towards the challenges faced by women in society. The posters were judged by our branch counselor Mr. Shabeer K.P and the group of Jincy and Shamna Hiba were selected as the winners. The competition was much enjoyable.



**3.3.4 Purple Ribbon Band**

IEEE SB GECW, as a part of Women’s Day, has distributed a Purple Ribbon among the members on March 8<sup>th</sup>, 2018 as an awareness of the violence against women and also signifies the importance of women in society. A discussion was conducted between the members after the ribbon distribution about the need of women in every sector. The discussion made us to think about the lack of encouragement faced by women in every field and led us to decide more programmes which helps the girls in our College to come forward.

**3.3.5 Alumni Meet**

IEEE SB GECW has conducted a Back to College session with four of our alumni in association with GECW Bangalore Chapter on March 17<sup>th</sup>, 2018 at 9.30 pm from the Virtual Room. It was a half day session in which they talked about their Professional life in Bangalore, made us to

walk through the campus to corporate transition and also gave an introduction to DevOps. They made us aware of the upcoming challenges we have to face in our career life and gave us certain tips which will help us to be in the best place tomorrow. The session was too good and gave a best experience for the students.



**3.3.6 Workshop**

IEEE SB GECW has conducted a workshop based on Microcontroller 8051 ALP using keil 8051 as a part of WiE week from the Hardware Lab on March 8, 2018 at 10.00 am. The session was taken by Mrs. Lyla B Das, The Associate Professor, NIT Calicut. Around 20 students who took part in workshop got an opportunity to know about the microcontroller and it also benefited to those who are already learning about the same. The workshop was much effective which encourage us to do more of like this.



### 3.3.7 Talk

IEEE SB GECW, as a part of WiE Week has conducted a talk on Women Empowerment on March 15, 2018 at 3.30 pm from the Virtual room. The talk was given by Mrs. Jyothi, Computer Programmer, CSE Department. A total of 20 students has attended the session which benefited both girls as well as boys, as the talk made every person to rethink about the present situation of the women in society. The session was much effective as it was an interactive one. Few of the students gave their feedback and had a pleasant ending for the program.

### 3.3.8 Ted Watch

IEEE SB GECW, as a part of Women's Week has shown a Ted Talk video on the topic "Why we have too few human leaders?" at 12.30 pm on March 15, 2018 from the Virtual room. The Ted talks have always been a way for next big idea. A total of 30 members enjoyed the talk much which gave them an idea about the challenges facing by the women. The program turned out to be effective than expected.

## 3.4 KMCT College of Engineering, Mukkom

"When the whole world is silent, even one voice becomes powerful. I believe in the

power of voice of the women." - Malala Yousafzai. Intellectually, mentally and spiritually women is equivalent to a male and she can participate in any activity. Those women who break stereotypes and carve their way to success in these unconditional fields capture everyone's heart and give courage to those who are dreaming of similar carriers. For all those women who are dreaming and aiming at impossible things, let's make them possible by joining together. WiE week has been celebrated in our College from March 5<sup>th</sup> to March 10<sup>th</sup> in our College. All the volunteers in our student branch and all the students who were interested every branch attended the programs of the WiE Week Celebrations.



### 3.4.1 Photoshop Workshop

IEEE SB KMCTCE has conducted a "Photoshop Workshop" as a part of WiE Week on March 6<sup>th</sup>, 2018 at 10am in our Net LAB of CS dept. The Photo-shop session was hosted by Mr. Shefin

Muhammad. He is very well experienced in Photoshop techniques. A faculty teacher was also there for the programme. It was a one day Workshop. There were 45 participants which from our College. Through the session the students got an opportunity to learn different techniques of Photoshop though it was a one day session we just provided some basics of Photoshop, and all the students enthusiastically done everything we have given to them, Each works we gave them , they done it in a simple strategy. The session ends at 4pm. The feedback of the students was great and also they had good experience in it.

### **3.4.2 Women in Engineering - Quiz contest**

IEEE SB KMCTCE has conducted a Quiz competition based on Women in Engineering as a part of WiE Week. The Participants was so huge, we never thought that this much participants will arrive. It was a very surprised moment. The Quiz where conducted in in front of College. The questions that was a typically a general knowledge type questions. After the quiz competition ends the results was published and the Winners were selected.

### **3.4.3 Coding Class**

IEEE SB KMCTCE has conducted a “Coding Workshop” on March 8<sup>th</sup>, 2018 at 2.30pm in the Seminar Hall. The Session was handled by Mr. Akshay CS he was one of our volunteer itself, but he was very well experienced in the field

of Coding. When we have a very skilled volunteer why we have give a outsiders for teaching coding to all those students who attended the class of coding. It was a half day class. The Class was full of Basics of the Coding Techniques. The feedback from the students of the coding class was a good one. There were 35 students who attended the coding class. The session was very informative to all. The session ends at 5pm.

### **3.4.4 Graphic Designing Contest**

IEEE SB KMCTCE has conducted a graphic designing contest and a poster designing contest, as a part of WiE Week, to those hidden magnificent brains of College on 6<sup>th</sup> of March at 12.30pm in the Seminar hall. The contest was conducted by Hisham and Sanal. The participants were selected on the basis of marks scored from the preliminary test conducted on March 2<sup>nd</sup>, 2018. The contest was conducted with 2 students in one team by a supervisor Faculty. The contest Winners where selected and it was a very tight competition to select the winners in the Final Stage. It was 3 Stage Competition. There were 10 students who got selected in the semi stages. And the Winners where. The session ends at 4pm. The feedback was to more programs like this.

### **3.4.5 Women Empowerment Speech Competition**

IEEE SB KMCTCE has conducted a Women Empowerment Speech Competition on March 10<sup>th</sup>, 2018 at 3pm in the

College Auditorium. The Program was hosted by Rashmi and Shaheen Moosa. We invited a Judge to determine which speech was the best one. So that Prof. (Mrs.) Maya Mathew of (CS Dept.) arrived in the judging panel. There were 25 students who participated for the speech competition. All participants speak in their special way. Some express their feelings, some express their body language to feel it, and some of them makes it from their heart and tells them truly. From the speeches the Winners of the speech competition were selected. Divya M and Fathima Shimna got first and Second prizes. The Session Ends at sharp 5.30pm.

### 3.5 MEA College of Engineering, Perinthalmanna

#### 3.5.1 DISENO'18

MEA IEEE SB has celebrated WiE Week from 1st March 10th March. As part of this, the SB conducted events like "Diseno'18" which was a photoshop workshop exclusively for IEEE girl volunteers from various departments, for helping them to know the steps in designing poster's, editing pictures and to develop a designing skill in them, which will be helpful for them throughout their life. The section was handled by Mr. Hisham C.V (past Malabar hub designer and past CS Society Chair, MEA IEEE SB). The IEEE girl Volunteer's were given a very good feedback about the workshop.



#### 3.5.2 Graphic design competition

After the workshop section our SB conducted an online Poster designing competition on the topic "Advertise your Product" and the best poster's were selected as the 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> winning categories.

#### 3.5.3 Let Me Speak

"LET ME SPEAK" was a speech Competition exclusively for our IEEE girl volunteer's to express Their views and opinions to Change the societies concept about women and to empower women. The judgements was done by Mrs. Sherin Jabbar (Assistant professor CSE department) & Mrs. Febina Beevi (Assistant professor EEE department)and it was in the presence of Mr Ajmal KT (Councilor of MEA IEEE SB)and the best speaker's were selected as 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> prize winners.



#### 3.5.4 She Can Code

"SHE CAN CODE" which was a coding competition for our IEEE girl Volunteer's

to experience and enabling them to code themselves and to Improve their coding skills in C & C++ programming language's. 10 coding Questions were given to them and asked them to code it within 1 hour, and the person's with more number of Completion in coding questions is selected as The first,second and third prize winner's, the Judgement was done by Mr. Jishnu Anil (past Webmaster, MEA IEEE SB).



**3.6 NSS, Palakkad**

**3.6.1 Speech Competition**



WiE chapter of NSS College of Engineering celebrated WiE week starting with a speech competition called Let Me Speak on 5<sup>th</sup> March 2018 at 4.00pm in E1 hall. The coordinators of the event

were Athira M, Haritha H. Around 11 students participated ,best of two were selected from them. They were given the topic “Indian Women In Science And Technology”. All of them delivered with immense contents but on certain criteria Anjali Jayaram and Gayathri were selected for hub level event. The videos of the same were uploaded.

**3.6.2 Quiz Competition**

WiE conducted the quiz competition at E one hall at 4pm. Activity coordinators Reja Khathun and Swetha Vijayan volunteered the program and 75 students participated. The event was conducted as a group of two. Ajay Nair and Anirudh were the winners of the quiz.



**3.6.3 Cartoon competition**

WiE conducted cartoon competition on 7<sup>th</sup> March, 2018. The venue for the program was E1 hall at 4pm. Around 10 students participated. They were given the topic “adventures of women in kitchen and outside world”.



### 3.6.4 International Women's Day Celebration

WiE chapter of NSS College of Engineering celebrated International Women's Day on 8<sup>th</sup> March 2017 at 11.00 am in E one hall. Our guests were women scientist Dr. Sunitha K Nayar who is also an alumnus of our College and former principal Dr. Geetha Varma. The function was anchored by IEEE member Mariya Chandy. The function was presided by Dr. Sudha T, principle of NSS College of Engineering. IEEE staff advisor, Dr. Leesha Paul delivered the welcome note. Dr. Geetha Varma, the keynote speaker delivered thought for the day including the relevance of purple ribbon. Dr. Sunitha K Nayar delivered a talk on multi tasking women. It was followed by cultural events. The function was concluded by a thank note from Akhila D, WiE chairperson.



### 3.7 Sreepathy Institute of Management and Technology, Vavanoor

IEEE student branch of Sreepathy Institute of Management and Technology conducted a talk on "Spirituality and Science" as a part of National Women's Day Celebration 2018. The main aim of this session is to provide more information about science and how the science involves in spirituality.

The session began with the welcome address by Smitha G (IEEE Counselor). The session was handled by Mr. Abhilash (Asst Professor). He was also doing research on Spirituality and Science. The session started sharp at 04.05 pm and winded up by 05.05 pm. The session was very interesting and it fills curiosity in minds of delegates. The session had given more importance to What is spirituality, Role of Science and Religion, Studying the nature of consciousness, Role of faith. Bringing god in science.

The program just came to an end with lots of doubt clearance. The vote of thanks was delivered by Ms. Reshma (IEEE Volunteer) and finally ended up by giving a token of reward to Mr. Abhilash by Mr. Hithesh (Asst Professor). The feedbacks from the candidates were so excellent.



**3.8 MES College of Engineering, Kuttippuram**

“Behind every successful woman is a tribe of other successful women who have her back.”

In realization of this quote of empowering women, the WiE Affinity Group of IEEE SB MESCE, celebrated International Women’s Day through a series of events from 5<sup>th</sup> March 2018 to 9<sup>th</sup> March 2018.

**3.8.1 Day 1 Introduction to Photoshop**

To nurture and improve the designing skills of our SB volunteers, we conducted a session “Introduction to Photoshop” on 5<sup>th</sup> March 2018 during 4.30- 5.30pm from CCF Lab of our College. The session was handled by Ms Liyana Shirin, ECE-S8, the previous Secretary of IEEE SB MESCE.



**3.8.2 Day 2 Entrepreneurship Talk**

A talk on entrepreneurship and a session of card making was conducted on 7<sup>th</sup> March 2018 from the Applied Seminar

Hall. The session was handled by Sana Khader, TEDx speaker as well as student of our College. She inspired the students with her words of talent and expertise. Being a craftsperson herself, she coordinated the whole team of students in making Women’s Day cards for the next day.



**3.8.3 Day 3 Women’s Day**

International Women’s Day was celebrated at its full by WiE AG of IEEE SB MESCE on 8<sup>th</sup> March 2018. Pink ribbons were distributed to both female and male students of our College as a symbol of women empowerment. Self made cards were distributed to the female staffs as a token of love and thanks for their dedication and hardwork.

**3.8.4 Day 4 ‘Let Me Speak’- The Voice of Malabar**

The Hub Level event, elocution competition, Let Me Speak - The Voice of Malabar, was conducted on 9<sup>th</sup> March 2018 from the Applied Seminar Hall. The students were to speak on the topic “Indian Women in Science and Technology” for a duration of 5 minutes. The speech of each participant was recorded and sent to the Hub for shortlisting them for the next level.

### 3.9 College of Engineering, Vadakara

The international women's day is celebrated on March 8<sup>th</sup> every year. IWD or International women's day is a time to reflect on progress made, to call for change and to celebrate acts of courage and determination by ordinary women who have played an extraordinary role in the history of their countries and communities. As part of this women's day, the IEEE SB CEV had conducted WiE week from 6<sup>th</sup> March to 9<sup>th</sup> March 2018. These festive week for women was amazing. The events conducted are following.

#### 3.9.1 Voice of Malabar

The Women's Week Celebration of College of Engineering, Vadakara as part international women's day was conducted on 6 to 10 March 18. The issue of gender equality which cut across all stratas and sectors are getting highlighted. As part of this venture the conduction of Voice of Malabar is most important. It was a speech competition based on the topic "Women the full circle" IEEE SB CEV starts their women's week celebration with voice of Malabar on 6th March 2018 at 2 to 4 pm. 13 students actively shared their views on this topic. They were amazing and they shared their lifetime experiences, fetch their mothers as example of a complete woman. Every speech highlighted that women's have key role in every sectors of society. Voice of Malabar helps to reveal that women. It is the most fundamental way of letting everyone to know about the day and it's

importance. International women's day celebrating their achievements.

#### 3.9.2 She Can Code

The IEEE celebration of College of Engineering Vadakara as a part of Women's Day was conducted from 6<sup>th</sup> to 9<sup>th</sup> March 2018. She Can Code is an initiative aiming to bridge the digital skills gap by inspiring women to enter and remain in technology. She Can Code's mission is to empower women to enter and remain in the tech industry. International Women's Day (March 8) is a global day celebrating the social, economic, cultural and political achievements of Women. It commemorates the movement for women's rights. March 8 was suggested by the 1910 International socialist Women's conference to become an "International Women's Day". So as a part of Women's Day the IEEE volunteers of CEV conducted a She Can Code event to give out a chance for students to study on coding. The program started at 9.15 AM. The coding section finished at 2 PM. Coding involves activities such as analysis, developing understanding, generating algorithms, verification of requirements of algorithms including their correctness and resources consumption, and implementation of algorithms in a target programming language. After the coding section the coding competition started. Athira Ramesan (S4 EI) awarded the first prize and Chethana. K (S2 CS) awarded the second prize.

#### 3.9.3 TED Talk

The WiE Week Celebration of College of Engineering Vadakara was conducted

from 6<sup>th</sup> to 9<sup>th</sup> of March 2018. “I remain a very strong believer that women’s right and religion are not mutually exclusive. But we have to be at the table. We have to stop giving up our position. Because by remaining silent, we allow for the continued abuse and persecution of the women worldwide”. This women’s week, IEEE SB CEV along with WiE had organised a TED talk on 7<sup>th</sup> March 2018 at ECE dept seminar hall to enlighten the spirit of women hood. The programme started at 2.00 pm. The event started with the speech of event coordinator Ms.Anusha (IEEE volunteer), who introduced Ms. Surabhi Gautham to the audience. About twenty students attended the programme. The TED talk was by the very famous Ms.Surabhi Gautham, IAS. She spoke her journey which led her to the current position. The talk was really inspiring. At the end of the talk she put forward a wonderful message, “ There is no substitute for hard work and no shortcut to success”. The event was concluded at 3.00pm with the thanking notes of Chairman IEEE SB CEV, Mr. Yaaseen Mohammad.

### 3.9.4 The Lavender

The IEEE SB of College of Engineering, Vadakara has organized a WiE week celebration at the College on behalf of International women’s day, from 6<sup>th</sup> to 9<sup>th</sup> March 2018. With in these few days we have conducted various events, and one of the most initiative program was “the lavender”- distribution of purple ribbon to all the teaching and non-teaching staffs out there in the College and were

asked them to tie it. On this day the most often question we were asked was “Why the PURPLE ribbon ?”. Purple is the official colour of international womens’ day and was founded more than a century ago. Internationally purple is a colour for symbolizing women, purple signifies justice and dignity. There were about 100 staffs in the College and each and every one of them came forward and become a part of this without any hesitation. The lavender was inaugurated by our honourable principal Mr. Narayanan sir by receiving the ribbon from our WiE chair Miss. Khadeeja. Later we distributed the purple ribbon to all the beloved staffs in the College including our teachers and the non teaching staffs. The overall support from this people made the event a big success. Along with this, all IEEE members has put their effort on it to make this happen really well. On this Women’s Day we can remind that protection of each women is the responsibility of each and every one in the world.

### 3.9.5 With Love

International Women’s Day was celebrated at College of Engineering, Vadakara on march 8, 2018. This day is meant to appreciate those who have the biggest but quietest influence in our lives. This day was all about celebrating those incredible people such as teachers and staffs and showing them how much we love, respect and value them. “With Love” was a program conducted by WiE, IEEE SB CEV in which bright and lovely cards were gifted to teachers

and staffs to express our love, gratitude and appreciation. The cards contained womens day wishes and a beautiful quote that touched their heart. About 100 cards were distributed to the teachers and staffs which helped to express our feelings and had bought a smile on their face.

### 3.9.6 The She Dairy

As a part of Women's week celebration in College of Engineering Vadakara, various programs and workshop was conducted from 6<sup>th</sup> to 9<sup>th</sup> March 2018. International Women's day falls on March 8 and is a symbol of the struggles that women around the world have undergone to gain equality and rights. On March 8, IEEE volunteers of CEV carried out a program on 'She Dairy', which is an initiative done for sharing experience of faculties present in College of Engineering Vadakara. This program was conducted for enriching an awareness for students which includes educating yourself by learning more about women and their struggles worldwide. The program was at lunch break time, so we had the presence of almost all the students in the campus. First we had a brief introduction about our program 'She Dairy', that is all about sharing experience by the faculties which gave a self confidence and awareness among the students. We got a wonderful set of experienced teachers who made the event a grand success. Mrs. Babitha, Mrs. Smitha, Mrs. Sythalakshmi, Mrs. Rinju, Mrs. Sithara, Mrs. Fathima, Mrs Bindu and Mrs. Deepa came forward to

share their experiences with the students. All of them shared their experience not only as a women but as a mother and as a teacher. They spoke about gender equality and women empowerment in our society. That is providing women and girls with equal access to education, care, decent work and representation in political and economic decision making processes. As women's continue to suffer discrimination and violence in every part of the world, they must be given safe and secure working conditions in our society. All these information from the staffs showed the vital role of women and the need for their full and equal participation and leadership in all the areas. All these served as a great experience for the students of CEV as well as for the IEEE volunteers too. The closing note of the programme was by WiE Chairperson, Ms. Khadeeja Shabana.

### 3.9.7 He About She

IEEE SB CEV conducted its farewell event for the WiE week on the 9<sup>th</sup> of March 2018. The event titled Jam-He About She, The Woman who influenced you was conducted exclusively for men. Being conducted during the off hours there were quite a number of participants and spectators as well. The event started with Mr. Shinoj Punnoli, Assistant Professor EC department, who delivered a heart touching talk on the woman who influenced him- his Mother. With the perfect start the subsequent participants opened up their hearts with no strings

attached putting the audience into tears. Though a few boys had come just to be onlookers, they were mentally pushed on to take the podium to share their views. About 90% of the participants spoke with no short of words about their first love- their mother. While the rest spoke about their close relatives and friends. With around about twenty participants the event came to an end that nobody wished for. The event was concluded by few words of Ms. Vismaya C.V, event coordinator.

**3.9.8 Surprise Greetings**

As a part of International Women’s day IEEE SB CEV planned an event “surprise greetings” honoring each woman. International Women’s Day was celebrated on 8 March. It is a day to celebrate womanhood and marked by Women’s Groups around the world.” The story of women’s struggle for equality belongs to no single feminist nor to any one organization but to the collective efforts of all who care about human rights, “says world- renowned feminist, journalist and social and political activist Gloria Steinem. Thus International Women’s Day is all about unity, celebration, reflection, advocacy and action - whatever that looks like globally at a local level. To express your love, gratitude and appreciation through our bright and lovely postcard greetings were send to Colleges. It was a surprise rise experimental event. The greetings were sent to about 15 Colleges in Malabar hub. It was a collective effort

of people-men and women alike- that we could observe this beautiful day and also could make it more vibrant.



**3.10 Govt College of Engineering, Kannur**

IEEE SB GCEK organized various events as a part of WiE Week celebrations from March 1, 2018 to March 10, 2018. The events organized at the SB focused more on women empowerment considering it a necessity for women in engineering. The events included competitions as well as interactive sessions. On March 5<sup>th</sup>, the WiE Week programs began with an experience sharing session. On March 6<sup>th</sup>, a coding competition was organized for girls. On March 7, 8 and 9<sup>th</sup> the competitions open to girls and boys including quiz, debate etc. were organized. On March 10th a session on martial arts was organized with which the programs came to a close.



**3.10.1 Wings of Fire**

The WiE Week programs began on March 5<sup>th</sup> with an experience sharing session, Wings of Fire Held at lecture hall of S2 EC B from 4pm to 5pm in the

evening. It began with an introduction given by Ms. Sandra Paul, WiE Secretary IEEE SB GCEK. Further the session was handled by one of our senior faculty, Prof. Sangeetha K of EEE Department. Among the audience were the Execom members and other student members of IEEE. Prof. Hemakumar K former SB Counsellor and Dr. Saritha M, WiE Coordinator of IEEE SB GCEK also marked their esteemed presence at the occasion. Prof. Sangeetha K spoke on the changing scenario of Indian women and shared her experience as a woman working in the industry and her further entrance into the teaching field. She also testified how a girl can fulfill her dreams with the support of her family and society.

### 3.10.2 She Can Code

The second WiE Week event had been a coding competition organized for girls at Software Lab of EEE Dept. from 4pm to 5pm. The competition began with an introduction given by Ms. Nanditha O T, WiE Chairperson IEEE SB GCEK. The competition was conducted in two phases, the first phase of 20 minutes which involved answering of objective type questions. From the first phase participants were selected to attend the next phase of competition based on their marks in the first phase. The competition was among teams of two and thus three teams were selected for the second phase. The second phase was for 40 minutes and involved coding for three different

problems and teams were evaluated based on the time taken to crack the problems. Ms. Alka V N and Ms. Sneha Kadangot of S2 CS were the winners.



### 3.10.3 Unscramble

On March 7<sup>th</sup> 2018 an event 'Unscramble' came to be organized as a part of WiE Week at 4 pm in the lecture hall of S4 EC A. It was a competition open to both boys and girls and had two phases of competition. The competition was for a team of two and the teams were allowed to participate in both the phases and their scores in the two phases were added up to select the winners. The competition was to identify the scrambled pictures of personalities, logos, instruments etc. The winners were Mr. Namith K and Mr. Athul V K of S6 EEE.

### 3.10.4 Quiz

As a part of WiE Week on the International Women's Day, March 8 the SB conducted a quiz competition open to all. The competition came to be held at the lecture hall of S4 ME from 4 pm to 5 pm. The quiz was for a team of two and had many rounds of competition. The first round which had a large number of participants was used to select six teams for the further rounds. The participants who were selected from first level could

participate in all the further levels and were awarded marks according to their answering. The final marks were used to select the winners. The winners were Mr. Sreehari C and Mr. Ananthu Muralidharan.



**3.10.5 Debate**

On March 9<sup>th</sup> a debate came to be organized at the lecture hall of S7 EEE from 4pm to 5pm. With the large number of participants they were divided into two groups debating for and against the motion on the topic. ‘Is fearless women still a dream for India’. All participants participated actively in the competition by shooting their views and defending them wherever necessary. Many issues of current relevance were stated to justify the topic.

**3.10.6 Martial Arts**

On March 10<sup>th</sup> a Martial Arts session was organized for girls as a part of WiE Week celebrations near Main Auditorium of our College. The session mainly focussed on self defence for women through Taekwondo a Korean martial art form and led to a rise in their self-confidence. It was a three hour session from 9 am

to 12 pm and was handled by Mr. Venu assistant Engineer and his team of 4 other members. The WiE Week programs concluded with this session.

**3.10.7 Let Me Speak**

On March 10<sup>th</sup> a public speaking competition ‘Let Me Speak’ was held in ME Seminar Hall at 1 pm as part of WiE Week. During the competition each participant were given five minutes to express their views on the topic ‘Women The Full Circle’. Further their talks were also recorded into videos to be uploaded for selection at the Hub level.

**3.11 College of Engineering, Thalassery**

March 8<sup>th</sup>, 2018. Worldwide, women continue to contribute to social, cultural, economic and political achievements. In order to remember their valuable contributions and achievements 8th of March is celebrated as International Womens’ Day. On this occasion, College of Engineering Thalassery in association with IEEE WiE conducted a one-day program centered mainly on female members. The core aim of the program was to give some insight into communities like WiE and to encourage female members to participate more in community programs. As part of the inaugural ceremony, Aparna (Chairperson IEEE SB) welcomed all the dignitaries. The program was inaugurated by College Principal Dr. O.A. Joseph. He in his inaugural speech emphasized the efforts put forward to empower women and the works done by communities like IEEE WIE.

Dr. Rajeesh J (HOD ECE Dept.) and Ramachandran C (Assistant Professor) expressed their views about the program. Bilal (IEEE SB Vice Chair) concluded the inaugural ceremony with his vote of thanks.

Mainly six activities were organized for the day.

1. Essay writing on women empowerment and leadership
2. Quiz Competition
3. Motivational Speech by Mrs. Nivya T K
4. Speech Competition
5. Short Film
6. WiE members speak about the women whom they inspire – Inspirational Talk.



### 3.11.1 Essay Writing Competition

An essay writing competition was held for the women members of IEEE WIE. The participants were asked to write on

the topic “Women Empowerment and Leadership”. They were given enough time to complete.

### 3.11.2 Quiz Competition

Participants were grouped into a team of two members each and they were given a few questions about women personalities. The teams participated with great enthusiasm. The questions put forth to the teams were intriguing and exciting according to the response from participants.



### 3.11.3 Motivational Speech

A motivational class on women empowerment and personality development was conducted by Mrs. Nivya T K (HOD Civil Dept.). The class really helped the students to know what women empowerment actually meant. Moreover, the class was interesting and encouraged students to build self-confidence and to break the stereotypes.

### 3.11.4 Speech Competition

To develop the courage to face people in front of the stage a speech competition was also conducted in accordance with the program. The topic for the speech was about women in Science and Technology. They were given enough time beforehand to prepare. Some participants expressed

their views on the subject clearly and distinctly.

**3.11.5 Short Film**

Documentaries on eminent women personality were showcased as a way to inspire the participants. Real life stories of Marie Curie, Amelia Earhart, and others were shown. Also, a video about some of the not so well-known women in the field of science and technology were shown.



**3.11.6 Inspirational Talk**

As the program came to an end the members were given a chance to casually talk about some inspirational women personality in their life. They were asked to express their views on the WiE Week program and what they expect in future programs.

In addition to the motivational activities, a honorary program for College staff was also conducted. To recognize the hard work of lady cleaning staffs all of them were invited to the program and were asked to speak few words about their experiences and their views on this day.

They were presented with a token of appreciation for their sincere efforts in making the College campus neat and tidy all around the day.



**3.12 Govt College of Engineering, Sreekrishnapuram**

**3.12.1 Open debate**

IEEE SB of GEC Palakkad organized an open debate with regards to WiE wave 2.0, an initiative by IEEE LINK as a part of IWD to celebrate the achievements of women throughout history and across nations. Contention in argument of the topic, ‘Should there be reservation for women especially in the tech field?’ transpired on 9<sup>th</sup> March 18 from 1.00 pm to 2.00 pm at the front entrance of the campus. About 17 participants including students from various departments as well as HODs and staff members ensured their vibrant presence and expressed their critical opinions during the course of the programme. The moderator was Mrs. Kavya of ECE Dept. who was very dynamic in carrying the entire debate in a streamlined manner. The wholehearted commitment of the IEEE fraternity, the rhetoric discourse of the participants and the lively audience contributed to the overall success of the event.



### 3.12.2 She Can Code

As part of Women's day celebrations, WiE chapter of IEEE SB of GEC Sreekrishnapuram organized a workshop on Python and FOSS for girls on 8th March 2018. The class was handled by Biswas B and Naveen MV from S6 CSE of the College. The class began at 2.30 pm and ended by 4.30 pm. Various topics including basics of linux commands and python were taught during the workshop. The primary aim of the workshop was to familiarize the basics of FOSS and python to girls. The session began with the commands of FOSS which was later followed by python. Few websites were introduced for further references. The workshop was successfully conducted with a total participation of 12 girls from CSE and IT department.

### 3.12.3 Purple Band Program

As part of Women's Day celebrations IEEE SB GEC Palakkad organized our exclusive event The Purple of Band through which GECians became the part of the day by wearing Purple Bands on their Dresses. We had also conducted a debate on the same date on which we made a platform to spread our ideas on Women's day by distributing the Bands to the participants and to the audience present on our venue.

### 3.13 Govt College of Engineering, Calicut

The WiE chapter of IEEE SB, GEC Kozhikode began its activities for the year 2018-19 under the leadership of IEEE Women in Engineering (WIE) is one

of the largest international professional organizations dedicated to promoting women engineers and scientists, also inspiring girls around the world to follow their academic interests to a career in engineering. The WiE chapter of our SB upholds this goal and aims at inspiring not only the students and women engineers around us, but focuses on helping every girl or woman find the inner strength and caliber in her.

#### 3.13.1 Graphic design workshop

As part of Women's Day Celebration our IEEE SB conducted a Photoshop workshop – "Graphic Design" exclusively for girls on 13<sup>th</sup> March 2018 to improve the knowledge of girls in the field of editing and image processing. The workshop was for one hour from 4.30 to 5.30pm and 20 of our students took part in the event.

#### 3.13.2 Voice controlled robot

On 17<sup>th</sup> and 18<sup>th</sup> of March 2018 a Workshop on "Voice Controlled Robot" is organized by our IEEE SB in connection with Lakshya'18 – The Technical and Cultural Fest of our College. The workshop is conducted by Smart Robotics.

### 3.14 Jawaharlal College of Engineering and Technology (JCET)

#### 3.14.1 Workshop

A workshop on HTML named 'OICode', was organized by IEEE SB- IEDC JCET on 7<sup>th</sup> March 2018 as a part of VIRAGO -Women's Day Celebration. The session was handled by Ms. Simi T, SEO Analyst-

Inkers Technologies started by 2.10pm and ended by 4pm at the network lab in academic block, JCET. The entry to the workshop was open to all girls irrespective of their departments. Around 30 students from various departments attended the workshop with great interest and enthusiasm. Introduction to basic HTML was given initially followed by introduction to various HTML tags. Different techniques to customize a webpage were discussed. Students were directed to design their own webpage. Certificates were distributed to all the participants.

**3.14.2 VIRAGO-The Voice**

On 8<sup>th</sup> March 2018 IEEESB and IEDC JCET organized a speech competition, named “The Voice”, as a part of Virago 2018-Women’s day celebrations, on the topic “Indian Women in science and technology” exclusively for girls. The contest was open to girls from all the departments. The program started by 2.10pm and ended by 4pm. The competition was judged by a three membered jury panel. The jury panel comprised of Prof. Dr. Jacob P George (HOD, Department of Mechanical Engineering), Prof. Ravindra Varma (Asst.Professor, English) and Ms.Rajini (Asst.Professor, English) to ensure the fair judgment. It was really hard for the judges to decide the winners. The result was announced on 9<sup>th</sup> March 2018. The prize was bagged by Ms. Raneena Raof (S4, ECE), the second prize was won by Ms. Swathy Krishna AK. (S6, Civil)

and at the third position was bagged by Ms. Athulya Das (S2,CSE). Students from various departments participated in the competition with Great Spirit. Certificates were given to all participants.



**3.14.3 VIRAGO**

Inaugural ceremony of VIRAGO-Women’s Day Celebration and Women Cell was conducted on 8<sup>th</sup> March 2018 at 2.00pm. The inaugural address was delivered by the chief guest Ms. Sana Khader, Entrepreneur/Orator/Craftsperson. The inaugural ceremony was followed by an interactive technical talk session by Ms. Sana Khader for all first year students. The session turned out to be a really interesting, motivational and fruitful one for the students. She showed the videos of her works inspiring the students to come forward and achieve great heights in life. The session was concluded at 3.30pm.

### 3.14.4 VIRAGO Digital art

A workshop on GIMP named 'Digital Art', was organized by IEEEESB & IEDC JCET on 9<sup>th</sup> March 2018 as a part of VIRAGO-Women's Day Celebration. The session was handled by Ms. Aparna A V, Vice President Creative, IEDC JCET started by 10.50 am and ended by 1pm at the network lab in academic block, JCET. The entry to the workshop was open to all girls irrespective of their departments. Around 30 students from various departments attended the workshop with great interest and Enthusiasm. Introduction to GIMP was given initially followed by introduction to tools on available on ink space. Few exercises were done followed by instructions for logo designing and poster making. Certificates were distributed to all the participants.



### 3.15 L.B.S College of Engineering

The WiE affinity group of IEEE SB LBSCEK celebrated the spirit of womanhood as a part of WiE week-a

week long celebrations extended from 01.03.2018 to 10.03.2018.

#### 3.15.1 Essay writing competition

An essay writing competition was held for all the students of our College on 2<sup>nd</sup> March 2018 at EEE seminar hall from 4.30 pm to 5.30pm. The topic for the competition was "Is Gender Equality followed in our Indian system". About 46 students attended the programme. As the topic is very relevant in our society the students could express their ideas well. 1<sup>st</sup> prize was secured by Vishnu and 2<sup>nd</sup> was secured by Ninu M S. They were provided with their certificates.

#### 3.15.2 Debate competition

A debate was held on 5<sup>th</sup> March 2018 at EEE seminar hall in presence of Dr Zarina P P (Branch Counsellor). The competition lasted for 1 hour from 4.00 pm to 5.00 pm. The topic given for the debate was "Is cultural and traditional beliefs-a boon or curse for Women empowerment."

About 30 students had attended the competition. At 1<sup>st</sup> the students were divided into a team of 2 members and the best one from each team were selected for The final round. All the participants performed well and made the programme a successful one. 1<sup>st</sup> prize was shared by Mohammed Azeem Waheed and Praveena M C.

#### 3.15.3 Distributed Greeting cards to Non-teaching Staff

As a part of WiE week, in order to show the importance of women in each field



we distributed greeting cards for non-teaching staffs in our College. Cards were made by WiE team of LBS and it was distributed to the staffs on 12<sup>th</sup> March 2018. They were happy to see the cards which we gifted to them as a token of love and respect.

**3.16 National Institute of Technology, Calicut**

The WiE week celebration at NIT Calicut was conducted from March 14-21. A wide range of online competitions along with technical talks by eminent personalities was conducted. The events saw mass participation and we received positive feedbacks from all the students.

A set of online competitions were held which was open for all students of NIT Calicut. The online events conducted included contests like poster making,

poetry writing and photography contest. Deadline for submission was kept as 17<sup>th</sup> March and all entries received till then were evaluated by the WiE volunteers. Around 50 entries were received and the winners were awarded.

**3.16.1 WiE Week poster**

Maria Teresa Kurian from 3<sup>rd</sup> year Civil engineering won the poster making competition.

**3.16.2 Poetry writing**

Nora Joby from 4<sup>th</sup> year Electronics and Communication engineering won the poetry writing competition.

**3.16.3 Photography Competition**

Shivani Kota from 2<sup>nd</sup> year Electronics and Communication engineering won the photography competition.

**3.16.4 Tech Talk**

A technical talk on ‘Big Data’ was conducted Dr. Vimala Mathew, Scientist (D) from NIELIT Calicut on 21<sup>st</sup> March from 5.30-6.45 pm at the ECED Seminar hall. The participants got a clear idea on the basics of big data and Machine learning and it proved to be a very informative session. Around 50-60 students and faculties participated in the talk which included IEEE and non-IEEE members and the feedback received was overwhelming.

**Internship Program**

IEEE Kerala is planning to introduce assistance to get Internship training for **IEEE Student Members** in Graduate and PG levels, in association with leading organizations in industry/R&D organizations.

The drive is in progress.

This activity will be a great boon for **IEEE student members** in Kerala.

## IEEE Life Kerala

*Reported by. Hareendralal A.G, Chair, LMAG*

We have been planning to release a newsletter since the beginning of 2017. And now, it is released.

IEEE LMAG Kerala Section was approved on 2014 with a membership of 12. Its operation began in full steam in 2016 with J Muraleemohan Lal at the helm. 39 programs were logged in 2016. five Execoms, one Family Night-Out Program, and one Technical Visit to Liquid Propulsion System Centre, Valiyamala and AGM. To witness a world class research facility in Space Technology in a remote village of Trivandrum was very much a revealing experience. All the Execoms were organised, as luncheon meetings with family, in the house of any one of the members. Some of the programs were organised jointly with PES, some with YP's and WiE's.

37 programs were held in 2017. four Execoms as luncheon meetings, a two-day long family night-out program in Kuttikkanam, joining with PES, WiE and YP's two Sasthra Vismaya Camps in Manjeri and Kombukuthi Tribal School near Mundakkayam. Joining with PES, a series of workshops were also organised, along with three Energy Awareness

Camps for the local communities near Kattakkada, Kilimanoor and Chemperi.

In 2018, four Workshops in the Design of Electrical Systems were organised in Baselios Mathew II College of Engineering, Sasthakotta, MEA College of Engineering, Perinthalmanna, Lourdes Matha College of Science & Technology, Kuttichal, and Trinity College of Engineering, Pallichal, Trivandrum. Joining hands with PES, the Final of Energy Efficient Dream Home Contest was conducted at EMC, a DLP at NIT Calicut and a Workshop in the Design of Solar PV Systems at IIST, Valiyamala. A Panel Discussion, jointly with PES, WiE and Vakkom Moulavi Foundation Trust, was organised on March 7 in connection with International Women's Day.

It was decided to invite "Senior Citizen" members to the LMAG forums.

LMAG organised two programs on 26<sup>th</sup> & 27<sup>th</sup> March 2018 jointly with PES, YP and WiE.

1. On 26<sup>th</sup> March, the IEEE team consisting of Prof VK Damodaran, AG Hareendralal and Ranjit R Nair visited Archana Women's Centre (AMC), Vettimugal, Ettumanoor. AMC is a



Workshop at Basелиos Mathew II College



Dream Home Contest - Finals



DLP by Dr Herman Koch



Workshop at MEA College of Engineering



Workshop at Lourdes Matha College



Workshop at Trinity College of Engineering



Workshop on Solar PV Systems at IIST



Dr Seema on International Women's Day

women empowerment group. We had discussion with them and explored the possibility of training the skilled women team on energy efficiency and conservation of resources and promoting economic energy conservation in the society.



2. In continuation of the Humanitarian Technology Intervention Program for Improving the Welfare of the Scheduled Tribes in Kerala, launched on behalf of IEEE Kerala Section by LMAG jointly with YP, WiE and PES in Nov 2016, another visit was planned on 27 March 2018 to the Kombukuthy tribal hamlet near Mundakkayam. The tribal

population of Kombukuthy have 150 families living on a hillock there. The IEEE team had discussions with the tribal community led by the tribal leader, Mr Viswanathan.



In the afternoon, an energy clinic was organised in the Tribal HS School for the community, with the support of Energy Management Centre, which was attended by 40 housewives.



# DC Distribution

Dr. Madhu Mangal, *Life Senior Member IEEE*

## 1 Introduction

All over the world, at present, Electricity is distributed by Utility Companies in the form of AC. In the beginning, cities were illuminated by gas or arc light powered by DC dynamos. The first incandescent lighting system with a central DC generating station was demonstrated at Holborn Viaduct in London, England, beginning in January 1882. The DC distribution voltage was 100 or 110 V in those days. In 1891 Westinghouse made history by setting up a 13 mile long AC transmission line. AC systems picked up owing to ease in transforming from one voltage level to another for long distance transmission.

## 2 Energy Consumers

The major energy consumers are Data Centers, Process Industries, Transportation, Telecommunication, and domestic and commercial buildings. These use SMPS, Variable Speed Drives and other power conversion equipment along with Uninterruptible Power Supplies. Computers of different capacities are used in domestic and commercial buildings. In all these pieces

of equipment, various power conversion stages are used in cascade.

## 3 Energy Saving in DC System

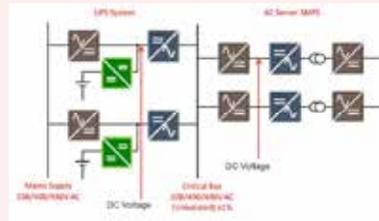


Fig 1

In SMPS, for example, first the mains AC supply is converted to DC, then this is converted to high frequency AC and after transformer this is again converted to DC.

UPS employing AC to DC and DC to AC converters generally provides the AC Supply to the SMPS of Computers and other process control equipment. Thus, the block diagram of a system using UPS system and SMPS would be as given in fig. 1.

It can be seen that in the above system there are two DC buses. If these two can be combined, the block diagram would be as given in fig 2. The initial stage is a DC UPS instead of AC UPS.

## ELEKTRA - 2018

A 3 day Technology summit 'ELEKTRA 2018' was held at College of Engineering Munnar from 2-4 March 2018. The event was coordinated by Depart-



ment of EEE in association with IEEE PES & IAS SB chapters of College of Engineering Munnar. The event was inaugurated on 2<sup>nd</sup> March, by Dr. R. Harikumar, Director, AN-ERT, Govt. of Kerala. Dr. R. Harikumar talked about Renewable technologies and its social relevance in his keynote address. It was followed by a technical session by Er.Aby Joseph, Associate director CDAC Trivandrum.

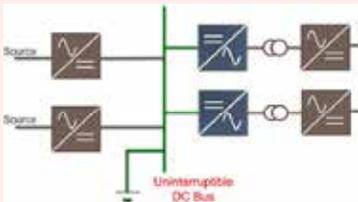


Fig 2

### 4 Advantages & Challenges

Elimination of two power conversion stages in the above example improves the overall efficiency of the system. For other power converters like Variable Speed Drives also, efficiency can be improved if DC source is used. LED light applications are picking up fast owing to its energy efficiency. All LED lights use DC voltage internally. Solar Power Plants generate DC voltage and this can be directly connected to the DC bus of the system. Presently, there are

Data Centers running on 360 V DC and telecommunication equipment running on 48 V DC.

The challenges are standardization on a set of DC Voltages, establishing a set of appropriate standards to facilitate interoperability, changing the way building power is installed, expanding the vendor sources of building blocks for the LVDC systems and addressing safety issues (equipment and personnel).

Workshop sponsored by NEMA, Underwriters Laboratories (UL), and National Fire Protection Association (NFPA) was held on 8<sup>th</sup> April 2011 at Arlington, USA to examine the various issues of DC distribution like sustainability, the Smart Grid puzzle, vision for 10+ years, and the challenges that must be met and addressed.

He talked on the topic 'Design and implementation of grid connected solar PV systems'. The programmes on first day ended up with a campfire in the evening followed by dinner. The proceedings of the second day started with an industrial visit to Pullivasal hydroelectric power plant. The delegates were shown the operation of the plant and control room by the KSEB staff. There were 3 parallel workshops scheduled in the afternoon from 1.00pm - 7.00pm. The workshops were on Energy auditing, Blockchain, and Real time Interfacing of MATLAB with DSP. The workshops were handled by experts from the respective fields. Cultural programmes were presented by both external and internal delegates in the evening. The second day ended with a dinner thereafter. The third day programmes started with a session on 'Entrepreneurship and innovation' by Shalini V Nair, MD, Ohile technologies, Bangalore. The last session was a technical talk on 'Nuclear energy, the need, the perceptions and the realities' by Sri. A.V. Satheesh, Scientific Officer, Kudamkulam Nuclear power plant.



The delegates were given awareness on nuclear energy, and their concerns on nuclear energy were addressed during the session. The 3 day programme ended up with a lunch. A group photo was also taken after lunch. 110 delegates from various engineering Colleges across Kerala attended the programme.

Number of IEEE members- 48

Number of Non IEEE members- 62

The 3 day technology summit received appreciations from all delegates in terms of the quality of the various sessions, industrial visit, and the conduct of the event. The IEEE members and volunteers of the SB Chapter were immensely satisfied in the way the event was organized, and it is decided to conduct the programme in the coming years also.

Thanks to IEEE Kerala section for giving all support for the programme.

## F2F & Execom Meeting

Face to face meeting and Execom meeting of IA/IE/PELS Jt. Chapter Kerala section, was conducted on 25<sup>th</sup> March 2018 at Kollam. The meeting was conducted in a house boat. The meeting started at 10.00 am with a silent prayer. It was followed by

a self-introduction of the participants. Chair, IA/IE/PELS Jt. Chapter Kerala section, Prof. Muhammed Kasim welcomed the gathering. It was followed by a tea break. Secretary, IA/IE/PELS Jt. Chapter Kerala section, Mr. Biju K, presented the activity

report for the year 2017 & 2018 till date. The chairs/ advisors of the IAS SB chapters presented their activity report and plan of activities. After that, a discussion on 'Vision plan 2018' for IA/IE/PELS Jt. Chapter Kerala was conducted. Lot of ideas were turned up in the discussions, and ideas were formulated into action plans. It was followed by a lunch break at 1.30pm. Execom meeting of the chapter was conducted after the lunch break. The Execom discussed the various activities to be conducted in the year 2018 in the light of the deliberations on 'Vision plan 2018', and finalized a few activities to be conducted in the year 2018. Highlight of the discussions was to organize a biennial International conference in the area of Power electronics and related renewable energy. The time for the conduct of the conference

is tentatively decided as December 2019. Dr. Jaison Mathew, Chair Conference activities, IA/IE/PELS Jt. Chapter Kerala, was entrusted to prepare a proposal to be submitted to IEEE Kerala section and IEEE Industry Applications Society for technical sponsorship. After the execom meeting, officer training for SB chapter office bearers was conducted. The session emphasized the need for events scheduling and reporting through vtools event reporting system. Tea was also served in the middle. The meeting concluded at 4.30pm and a group photo was taken at the end.

Number of members attended the meeting – 24

Reported by: **Biju K**, Advisor, PES&IAS SB Chapter, College of Engineering Munnar, Secretary, IA/IE/PELS Jt. Chapter Kerala section





# IEEE Kerala Young Professionals – Social Mixer

Reported by: **Bipin**, Chiar, Young Professionals

### Premise

IEEE Kerala has a large population of Young professionals representing Academia, Industry and individual entrepreneurs. With the rise in number of Young Professionals, we were in the path of implementing specific initiatives for each target audience segment. A social meeting of members was convened to strategize and plan a roadmap for the initiatives for 2018.

**Venue & Date.** AISAT, Kochi | 18<sup>th</sup> March 2018

### Statistics

Total Young Professionals in Kerala Section. 473

- 60% Academicians
- 35% Industry Practitioners
- 5% Entrepreneurs

Event Attendees. 23

### Sessions

The Social Mixer by IEEE Kerala Young Professionals began by offering all attendees Kerala’s own drink – Tender Coconut Water. The primary session was taken by our Advisor Dr. Suresh Nair on why and how Young Professionals are the future of IEEE. He began by addressing the possible issues that may be faced by young blood and how Section can tap into the true potential of these professionals. Recognizing members



by presenting them with lapel pins also came as a suggestion during his interactive session. He ended his words by sharing his experience within IEEE and how it landed him a professional opportunity with a top end aviation company.

*Kerala Section should start a movement among Young professionals with a strong mission to promote the spirit of contributing to society and the joy of volunteering.*

– Dr. Suresh Nair, CTO, NeST Group of Companies

The next session – Role of Young Professionals in Section Activities was taken by Dr. Sameer Saheer, Chair, IEEE Kerala Section. He started by comparing the membership fluctuation in the recent years and how Kerala Section was recognized globally for its membership achievements. Next he discussed on all major activities that the section carried out in the past with the help of Young Professional community inclusive of Early Career Faculty Development Programs, E-Scientia Exhibit Installation, Teacher in Service Program (TISP) and Entrepreneurs Meetups (E-Meet ups). The section has also made sure that at least 30% of leadership roles are assigned to Young Professional volunteers.

*Our section will always invest in Young Professionals as it is investing for a better future, despite the financial crunch we might face in sponsoring their programs.*

– Dr. Sameer Saheer, HoD – Dept. of ECE, NIT Calicut

Key Discussion Points;

- Kerala Young Professionals' representation at multiple levels and events
- Cross sectional activities(outstation) with other Young Professional AG's
- Member recognition/appreciation programs
- Immediately target members with continuous years of IEEE membership and engage them with as per their requisites/interests.
- Arise awareness amongst technology people within industry and academia. Make sure technical value is given to members.
- Assign individual tasks to members and appreciate their efforts.
- Engage with societies for technical programs
- Explore possible associations with government aided bodies
- Possibility of a wave or movement within IEEE Kerala Section to promote the spirit of Joy of Volunteering.

This session was followed by our chairman – Bibin Parukoor Thomas consolidating all the inputs and formulating a list of action items in consensus with the audience;

Action points.

- Create a directory of Young Professional members inclusive of their contact address, email and phone number since SAMIEEE data is obsolete. Assign a dedicated resource for this purpose.
- Focus on publicity within IEEE entities. Ensure proper reporting of events to IEEE
- Decentralization of activities at a section or zone level to smaller clusters (localization) to smaller communities. To start with small areas and scale to district focused events
- Engage and discuss with the Entrepreneurial community within IEEE YP and come up with a forum/platform for sharing experiences and technical knowledge.
- All action point initiatives to be spearheaded by new members within the Young Professional community, thereby ensuring volunteering opportunities.



*Our Chairman, Bibin Parukoor Thomas receiving the 2017 IEEE Region 10 Outstanding Young Professionals (Industry) Award Plaque from Dr. Suresh Nair, Advisor, IEEE Kerala Young Professionals (CTO, NeST Group of Companies) and Dr. Sameer Saheer, Chair, IEEE Kerala Section (HoD, Dept. of ECE, National Institute of Technology, Calicut.)*

Imm. Past Chair, IEEE Kerala Young Professionals - Shahim Baker followed by sharing his experiences of his tenure and the legacy of the Kerala community, the laurels that we bagged in the past. He detailed on the focus areas in the past, inclusive of educational activities, humanitarian efforts, university and pre-university programs, industry and academia initiatives etc. The final session was handled by Ranjit R Nair, Past Chair, IEEE Kerala Young Professionals. Ranjit stressed on the fact that IEEE



*IEEE Young Professionals Group at the shores of Kerala Beach*

## EDUCATIONAL ACTIVITIES

Reported by.

**Nandan S.**, Secretary, Educational Activities, IEEE Kerala.

### ILLUMINE

an educational outreach initiative

The current scenario in the state portrays a steady dip in the output of quality engineers, a situation which requires immediate attention. A strong foundation is the key part in having a solid building. Hence to resolve the above stated problem, Educational Activities team of IEEE Kerala Section has come up with *Illuminate*, an educational outreach programme for the pre-university students, which involves bringing up a young generation with a better idea of what it means to be an engineer and what he/she can do as an engineer. This we believe would enable pre-

university students to make a better informed career choice.

The first ILLUMINE event of the year 2018 was held on 27-01-2018, Saturday at SVGHSS, Chirayinkeezhu, Thiruvananthapuram. The main aim of the program was to give a basic outline of engineering to high school students. The program gave an overview on what engineering is and what an engineering student will be dealing in this four year course. The program also gave a glimpse on different branches of Engineering, its scopes and future possibilities.

is a voluntary organization and each member needs to invest time into his own membership to ensure a fruitful outcome.

The afternoon session was a team bonding activity at the sea shores of Gods own country. Thus included the event.

#### **Gratitude.**

- Dr. Sameer Saheer, Chair, IEEE Kerala Section
- Sarada Jayakrishnan, Vice-Chair, IEEE Kerala Section
- Shahim Baker, Secretary, IEEE Kerala Section
- Jyothi Ramaswamy, Treasurer, IEEE Kerala Section
- Paul Ansel V, Professor, Albertian Institute of Science & Technology
- Dr. Suresh Nair, Advisor, IEEE Kerala Young Professionals

The team of volunteers includes Mr. Nandan S., Secretary IEEE Kerala Section Educational Activities, Mr Nitheesh S., Govt. Engineering College, Bartonhill, Mr Vishnu, College of Engineering, Perumon, and Mr Akshay P. L., College of Engineering, Trivandrum and Ms. Gayathri, LBS Institute of Technology for Women, Trivandrum.

**Goals.**

- ❖ Enhance the level of technical aptitude of pre-university level students.
- ❖ Introducing the various engineering streams and the skill set required for each branch, which will aid them in making the right choices.
- ❖ Promote pre-university students to pursue technical careers.
- ❖ Imbibe problem solving ability in the students.

**Outcome.**

- ❖ Successfully generate a group of aware pre-university students.

- ❖ The right students take up engineering in the area best suited to them.
- ❖ Generate curiosity to know about the developments in technology among pre-university students.

The event started with an official inauguration. Principal of SVGHSS welcomed and introduced the IEEE team of volunteers to the students. Mr. Nandan S, Secretary IEEE Kerala Section Educational Activities, gave an introduction about IEEE, the aim and vision of the program.

Mr Nitheesh S, volunteer, started the session by giving an introduction to Engineering and Technology. He explained the impact and influence of technology on modern society. He also gave an outline of four years of engineering studies. Contributions of engineers in making our daily life are quoted with many examples, which really motivated the students. All the mother branches of engineering were then introduced one by one. His



session was followed by an activity for the students to apply their fundamental knowledge of science. The students had come up with innovative and interesting solutions to the tasks given to them.

Ms. Gayathri, Mr. vishnu and Mr. Akshay P. L., gave basic introduction to the Core branches of Engineering. The session covered basic outline of engineering like the various branches, core subjects in each branch and the contributions given by engineers. Many interesting technology advancement videos were also shown in branch wise discussion sessions. The students expressed their curiosity with interesting questions, which were very well explained by the team of volunteers. Other than basic branches, the sub branches of Engineering were also discussed in the sessions.

These sessions were followed by two activities, which basically tried to identify and enhance the technical skills of students. The students responded really well to the tasks given by our volunteers.

This was followed by an open discussion session in which the students asked their doubts about engineering. They also raised questions regarding the future scopes and opportunities in the field of engineering. At the end of the session, volunteers gave a glimpse on technical knowledge and the basic things they have to keep in mind while they are approaching a professional course like engineering. The session was a platform for the students to shape their will and seems to be a beacon of inspiration for a bright tomorrow. The event turned out to be a huge success because of the active and interactive participation of more than 70 students. The general feedback from the participants was that the sessions helped them to learn new things and kindle their curiosity. Mr. Nandan S, Secretary IEEE Kerala Section Educational Activities, concluded the session by thanking the school authorities and students. The event concluded with a photo session of the participants, organizers and the volunteers.

## TENHUMCH (R10 Humanitarian Challenges)

Humanitarian Technology Project/Activities for  
IEEE R10 Sections

Project proposals are invited...

# INSPARK

Educational Activities team of IEEE Kerala Section has conducted a one day educational camp, IN-SPARK on 2<sup>nd</sup> February 2018 at IEEE SB LBSITW. The event consisted of two seminars, a technical project exhibition and a laboratory visit. The event was organized for the students of Govt. Girls Higher secondary School, Cottonhill. More than 70 higher secondary students of the school participated in the event.

**Goals.**

- ❖ Promoting interest in Science and Technology among pre-university level students.
- ❖ Encouraging exploratory experiences, scientific and technological creative thinking among students through self-designed models or simple apparatus.
- ❖ Popularizing Science and technology among masses and creating an awareness regarding its impact on socio-economic and sustainable development of the country.
- ❖ Imbibe problem solving ability in the students.

The event started with an official inauguration. The welcome address was given by Karthika Nair,R, event co-coordinator. Prof (Dr). Jayamohan

J., Principal, LBSITW, inaugurated and introduced the IEEE team of volunteers to the students. Mr.Nandan S, Secretary IEEE Kerala Section Educational Activities, addressed the students. The introduction seminars were given by Prof. Shiju P. P, HOD, ECE Department and Ms. Gouri Nair G., event coordinator.

The event started with a general awareness seminar on different branches of engineering by Prof. Shiju P.P and afterwards a seminar on applied electronics and instrumentation engineering and its application in instrumentation and automation



fields by Ms. Gouri Nair G. Then the participants were given a tour around different instrumentation labs.

Volunteers gave an introduction to technology advancements and explained the importance of participation in project exhibitions at school. Volunteers also tried to make them understand that all students will get a chance to apply or do the practical aspect of the things that they have learned from the classroom. The volunteers also interacted with the students to boost up their ideas. The students had come up with innovative and interesting solutions to the tasks given to them.

Volunteers helped the students to apply their ideas and present things differently in their own unique way. They also presented some interesting project ideas. Some real world problems were also given to the students and students were asked to propose solutions for the same. The

students could really express their ideas and creative thinking ability. The volunteers could very well explain the interesting questions asked by the students. Some basic projects ideas and the implementation procedures were also explained.

The participants also got to see the technical exhibition prepared by students from different branches. More than 15 projects were exhibited during the event. The students interacted with the project team members with curiosity. Ms. Gopika. A, event coordinator gave away the thanking speech and the event was wound up by 4.15 pm with a photo session.

The event co-ordinators are Ms. Athira M.V, Ms. Gopika. A, Ms. Gouri Nair. G, Ms. Karthika Nair. R and Ms. Sinu Jose. 71 (IEEE and non-IEEE) volunteers helped in making this event a grand success.



## “Higher Education and Career Opportunities after B-Tech”

**IEEE** Educational Activities team of Kerala Section organized an expert talk on “Higher Education and Career Opportunities after B-Tech” for university students of Travancore Hub. The event was held at SCERT Hall, Trivandrum on 15.03.2018. More than 80 students attended the event. The session was handled by Mr. Levakumar V, Career expert and Rtd. Deputy Director, VHSE, Kerala.

### Goals.

- ❖ Make the students think about their interests, values, skills and preferences.

Exploring the life, work and learning options available after B-Tech.

- ❖ Introduce higher education and scholarship opportunities abroad.
- ❖ Introduce the engineering career opportunities inside India and abroad.

The event started with an official welcome address by Mr. Nandan S, Secretary, Educational Activities, IEEE Kerala Section. Mr. Levakumar V., resource person of the day, further

addressed the gathering. He explained the various career opportunities and scholarships available for higher education inside India and abroad. He suggested adequate online training on career opportunities. Many online career portals were explained to the students. He motivated the students to pursue higher education through GATE examination and the question pattern was also discussed. Tips for proper planning were given to the students.

This was followed by a discussion session in which the students asked their doubts and all the queries were well explained by the resource person. Overall feedback of the session was excellent and the event concluded with a photo session and vote of thanks by Ms. Karti A Nair.



## “History of Electronics and its Applications”

IEEE Educational Activities team of Kerala Section organized an expert talk on “History of Electronics and its Applications” for the students of UKF College of Engineering and Technology, Parippally, Kollam. The event was held on 16.02.2018. More than 80 students attended the session. The session was handled by Prof. (Dr.) B. Premlet, Chair, Educational Activities, IEEE Kerala Section and former Professor, TKM College of Engineering, Kollam.

### Goals.

- ❖ Motivate the students to pursue career in circuit branches.
- ❖ Introduce and create awareness on the applications of Electronics and its related fields.

The event started with an official welcome address by Mr. Shanker J, Secretary, Communication Society, IEEE Kerala Section. Prof. (Dr.) B. Premlet further addressed the students with a motivation speech followed

by the history of electronics and other circuit branches. He also well explained the fundamental applications of Electronics and the students raised many curious queries which were well explained by the speaker. Real life applications of electronics were very well discussed. Evolution of technology and the solution proposed by engineers were explained in a very interesting manner, which was well appreciated by the audience. This was followed by a discussion session. Overall feedback of the session was excellent and the event concluded with a photo session and vote of thanks. The official inauguration of the Electronics Association of the department was also done in sidelines with the event.



## IAS SB Chapter inauguration at NSSCE Palakkad

Reported by: Biju K

The IAS student branch chapter of NSS College of Engineering, Palakkad under IEEE Kerala section was inaugurated on 27<sup>th</sup> March 2018. PES SB chapter was also inaugurated on the same day. The inaugural function started at 1.00p.m. The IAS SB chapter was inaugurated by Prof. Muhammed Kasim, Chair, IA/IE/PELS Jt. Chapter Kerala section. PES SB Chapter was inaugurated by Dr. K.P. Mohandas, Chairman, Conference activity board, IEEE Kerala section. Dr. Devi, Principal, NSSCE, presided over the function. Dr. Leesha Paul, IEEE SB Counselor, welcomed the gathering. Mr. Biju K, Secretary, IA/IE/PELS Jt. Chapter Kerala section, offered his felicitations. Ms. Athira R, Chair, IAS SB Chapter, read out the code of ethics.

Dr. Vasanthi V, Advisor, IAS SB Chapter briefed about the plan of activities for 2018. Mr. Abhinav R, Chair, PES SB Chapter, proposed vote of thanks. The inaugural function concluded at



2.00p.m. A technical talk on ‘Power system operation and generation’ was delivered by Er. Shine Sebastian, Assistant Engineer, KSEB. The programme was over by 4 p.m. Number of attendees 118 IEEE members 32, including non IEEE members 86.



## EDUCATIONAL ACTIVITIES

### Educational Outreach Career Guidance Program

*Reported by: Edet Bijoy K, Secretary, MSS*

IEEE Malabar Subsection conducted an Educational Outreach. Career Guidance Program on 7<sup>th</sup> March 2018 at AKNM Government Polytechnic College Tirurangadi Malappuram. The program started at 02.00 pm with the welcome address by Mr. Manoj Kumar V, Principal, AKNM Government Polytechnic College Tirurangadi. The first session on “Career Opportunities and Skill Development”, was handled by Mr. Sajeev PS, Placement Officer, Government Polytechnic College Angadipuram. The session was fol-

lowed by Dr. Mohd Badeeuzzaman, who handled a session on “Higher Education Opportunities. Engineering and Research”. The sessions were fruitful for the students. After the sessions, students interacted with the speakers and discussed on the opportunities based on their interest. The program came to end at 04.30pm with the concluding remarks by Ms. Jilna P, Lecturer, AKNM Government Polytechnic College Tirurangadi. About 75 students and two faculty members attended the program (3 IEEE members and 74 non-IEEE members).



# Machine Learning for Signal Processing

Reported by: **Edet Bijoy K**, Secretary, MSS

IEEE Signal Processing Society in association with Department of Electronics & Communication, College of Engineering, Thiruvananthapuram, organized a Workshop on 'Machine Learning' at College of Engineering, Thiruvananthapuram on 16<sup>th</sup> February, 2018. Prof. Ciza Thomas, Head of the Department, Electronics & Communication Department, CET inaugurated the workshop. Dr. Deepu

Vijayasenan, Assistant Professor, NITK Surathkal, presented the topic 'Generative Models for Machine Learning'. Dr. Srirarm Ganapathy, Assistant Professor, IISc Bangalore delivered a talk titled 'Introduction to Deep Neural Networks'. About 60 participants (40 IEEE and 20 non IEEE) including research scholars, P. G. Students and Faculty from various institutions attended the workshop. The workshop was concluded at 4.00 pm.



## Obituary

### Mr. N A P THAMPI

Former Chair of Kerala Section  
passed away on 27<sup>th</sup> March 2018.

Our deepest condolences.  
May his soul rest in peace.

*(Residential address: Gowri Vilas,  
PRAG 23, Opp. Santhosh Hotel, GPO  
Lane, Statue, Trivandrum)*

## Python for Signal Processing

IEEE Signal Processing Society Kerala Chapter in association with Department of Electronics and Communication Engineering, MES College of Engineering Kuttippuram conducted a Workshop on Python for Signal Processing on 17<sup>th</sup> March 2018. The event was scheduled in side-line with MESTECH '18, the annual techno cultural fest of MES College of Engineering. The workshop was handled by Mr. Musfir Muhammed, Data Scientist, Data Scientist, Attinad Software, Trivandrum. The topics covered in workshop are. Brief Introduction to

Python Programing, Signal Generation, Sampling Theorem, Windowing, Fourier Transform and Filtering. B.Tech and M. Tech students and few faculties attended the workshop. 12 IEEE and 9 non IEEE members attended the workshop.



## Technical talk at St.Gits Engineering College, Kottayam



A technical talk on 'Ant colony and Bee colony optimization techniques' was organized by IAS SB Chapter of St.Gits Engineering College Kottayam on 17<sup>th</sup> March 2018. The resource person for the talk was Dr.Vinod Chandra, Director Computer centre, University of Kerala.

Number of attendees are IEEE members- 17 and Non IEEE members- 31



## Linux Device Driver Development

IEEE NIELIT Calicut SB in technical collaboration with IEEE Malabar Subsection and Kerala Chapter of IEEE Robotics and Automation Society, conducted a two days hands on workshop on Linux Device Driver Development on 10<sup>th</sup> & 11<sup>th</sup> March 2018. The workshop covered highly industry relevant

topics like Linux Kernel, Kernel Module Programming, Character Device Driver fundamentals, Hardware access mechanisms, Interrupts and development of common Device Drivers

There were 43 participants representing academia, young entrepreneurs and industry professionals.



## Educational Activities

Engineering Summer Camp for pre-university students

Educational Activities team of IEEE Kerala Section in association with IEEE Travancore Hub would like to initiate a 5-day Engineering Summer Camp for pre-university students from April 9<sup>th</sup> to 13<sup>th</sup>, 2018 at LBS Institute of Technology for Women, Poojappura, Thiruvananthapuram.

Camp is exclusively for 10th and 11th grade students.



RAS News

## IoT Primer'

Reported by: **Nandakumar**, Nandanam

IEEE Malabar Subsection and Kerala Chapter of IEEE Robotics and Automation Society, Kerala Chapter jointly with IEEE NIELIT Calicut SB conducted a two days hands on workshop 'IoT Primer' on 17<sup>th</sup> & 18<sup>th</sup> March 2018. The workshop covers high in demand topics like popular hardware platforms for IoT, Networking & Cloud fundamentals for IoT, Basic Linux Commands & Services (SSH, SCP, XRDP, etc.,) Bash Programming,

Python Programming fundamentals, Interfacing Sensors & Actuators, IoT protocols (MQTT, CoAP, etc.,) Dashboards & Connectivity etc. The workshop concluded by a capstone project by the participants

There were 46 participants representing academia, young entrepreneurs and industry professionals. There were participants from topnotch companies like Robert Bosch, VM Ware, Sigtech Wireless Technologies, to name a few.



### IEEE Group Medical Insurance Program 2018 - 2019

Enjoy the Group Insurance facility supported by IEEE ...

Hurry up for enrolment ...

No enrolment is allowed after 30-Apr-2018 for this year ...

# SAATHI

*Reported by:*

**Jishnu Krishna**, Secretary, IEEE Computer Society

**SAATHI** - Is an event organized by IEEE Computer society on 10<sup>th</sup> March 2018. The programme is about the inmates of Anandanilayam, being a companion, co-traveller and a facilitator, encouraging girls to use their abilities to get involved in technical industry and make them aware of the vast pool of opportunities available to them.

### Event Description

The event started at 2.30 pm with a few activities for the kids. This gave them an opportunity to identify their talents and also their courage to present to an audience was put to test. After the ice breaker session, K B Senthilkumar, Chair IEEE Computer Society Kerala Chapter gave the kids an introduction regarding IEEE, Computer Society and Women In Computing. This was followed by the keynote address from the Chief Guest Mrs. Jyothi Ramaswamy Treasurer, IEEE Kerala Section. She gave a brief talk regarding the present scenario in the tech industry. She explained to them the

opportunities that lie ahead of them and the ways in which they can latch on to them. The address was followed up with a Q&A session where the questions put forward by the kids were answered by our guests. The key point that was addressed during the session was how girls can achieve their dreams. Then there was a cake cutting ceremony. The cake was distributed amongst all the students and the staff of Aanandanilayam. Meanwhile, the kids were allowed to interact with our guests. Later on, the kids were let into a few fun activities which made the day more memorable for them. The session was wound up with a group photo with all the participants.



## Workshop On IoT

IAS/IES/PELS joint Chapter of Kerala Section together with IEDC Unit of



Musaliar College of Engineering, Chirayinkeezhu conducted a workshop



on IoT during Mar 9 – 11 at Musaliar College of Engineering. Prof Mu-



ammed Kasim, Chair IAS/IES/PELS Jt. Chapter inaugurated the workshop. Prof Arif M K, HOD CSE & Ms Aswini, IEDC Coordinator of CE Dept. attended the function. Mr Achus & Mr Nandan from Neo Green labs, Ko-

chi handled the workshop. The workshop was planned with 80% hands-on



training. Training was given with 4 /3 students per team. 41 students from



Civil, Mechanical, Electrical & Electronics participated in the workshop. It was a very useful workshop for the students.

An IEEE Awareness was also given to all participants of the workshop.

Number of participants

IEEE members- 5

Non IEEE members- 40

## IAS SB Chapter at Jyothi Engineering College, Thrissur

Inaugural ceremony of IEEE - IAS SB Chapter was organized on 2<sup>nd</sup> February 2018 at 10.00am. in the Insight Hall (Jyothi Engineering College). In this inaugural function, Er. S. Jayakrishnan, IRSEE, Senior Divisional Electrical Engineer (Traction Distribution), Southern Railway, Palakkad Division has graced the occasion as the Chief Guest. Welcoming the Chief guest and other dignitaries, Mr Jithin K Jose (Staff Advisor, IEEE-IAS) has presented the welcome address describing the inception and establishment of the new chapter and AEEE. The inaugural ceremony commenced with the lighting of lamp by a group of dignitaries. The Hon'ble Principal of the institution Fr. Dr. Jaison Paul Mulerikkal CMI delivered the Principal's address. Speaking on the occasion as the guest of honour Er. S Jayakrish-

nan, laid stress on the importance of evolving skill training from a young age. He motivated everyone to actively participate in the workshops to get benefited. In his presidential address, Fr. Roy Joseph Vadakkan (Asst Manager (A&A), JECC) congratulated the entire team of IEEE-IAS by untiring efforts made by them. Er. Thomas Mathew (Administrator) and Prof. Ratnan P, HOD (EEE Dept) also addressed the function. In the end, Ms. Geethanjali representative from final year students offered a vote of thanks to all. She thanked all the invited guests and participants for gracing the occasion by their solemn presence.



## Membership Development Activities

Reported by:

**Abey Easow Joseph**, Secretary, MD Activities, IEEE Kerala.

### Bishop Jerome Institute, Kollam

The SB of Bishop Jerome Institute, Kollam was inactive for last two years. A membership development drive was planned with the support of EEE Dept. on Feb 21<sup>st</sup> under the membership development initiative of IA/IE/PELS Jt. Chapter of Kerala Section.

The function started at 2.30pm and

was inaugurated by the Chair of the Jt. Chapter Prof Muhammed Kasim.

Prof Lisamma Panjikaran, HOD EEE presided over the function. Prof Pretty welcomed the gathering.

Membership drive was given by Prof Muhammed Kasim. The drive made nearly 35 students joining IEEE. Number of attendees are IEEE members-4 and Non IEEE members-41.



### J C E T, Palakkad and LBS IT for Women, Thiruvananthapuram

Membership Development team handled MD sessions at Jawaharlal College of Engineering and Technology, Palakkad and LBS Institute of Technology for Women, Thiruvananthapuram. The sessions were attended by 300 students. A training on new analytics tool that will replace, IEEE OU Analytics was given

to SB officers during F2F held at Kochi. Announcement. Student Branches that require MD sessions should submit the request to MD team through the form available in LINK website ([www.ieee-link.org](http://www.ieee-link.org))



## PICC2018

The second international conference on Power Instrumentation, Control and Computing (PICC2018), January 18-20, 2018 at Government Engineering College, Thrissur focused on the recent trends in power electronics, power systems and the allied areas. The conference was organized by the Department of Electrical Engineering Govt. Engineering College Thrissur. The conference was organized as part of the umbrella conference - Fifth biennial International Conference on Emerging Trends in Engineering science & Technology, ICETEST 2018. ICETEST consists of seven sub-conferences in different Engineering streams including PICC2018. Papers in PICC track are published by IEEE whereas papers in other sub-conferences are published by CRC Press.

PICC2018 had technical sponsorship from IEEE Industry Application Society (IEEE IAS) and IEEE Kerala Section. The conference was proved to be a forum for technical exchange among researchers from academia, research groups, and industries. All the presented papers have been submitted to IEEE for inclusion in IEEE Xplore digital library. Out of the papers presented in the conference, 20 % of the papers have been selected for possible publication in IEEE Transaction

on Industry Applications subject to further round of review of the journal.

PICC2018 had 181 paper submissions from 8 countries including India and 85 papers were shortlisted for presentation at the conference after a rigorous review process by 113 reviewers from 12 countries including India. Most of the reviewers are active researchers in reputed institutions. 82 papers were presented in the conference. Two papers were from outside India. 36 papers were from different NITs and 19 papers were from IITs. 84% of the papers (69 papers) were from outside Kerala and only 16% (13 papers) of papers were from inside Kerala. All the presentations were oral presentations. No online presentation was permitted to ensure maximum participation and interaction of participants in the conference. The technical Program of PICC2018 consisted of five keynote talks in the focus area of the conference and seventeen technical sessions. The sessions were chaired by active researchers from reputed institutes. The keynote sessions were delivered by Prof. Jian Sun, Prof. A.K.S. Bhat, Dr. Akshay K Rathore, Dr. Vinod Khadkikar, and Prof. K. Gopakumar. The details are as follows.



## Distinguished Lecturer Programme

Reported by: **Jayakrishnan Nair**

IEEE Power and Energy Society Student Branch Chapter NIT Calicut in association with IEEE PES Kerala Chapter has organized the IEEE PES Distinguished Lecturer Program on February 6, 2018, at NIT Calicut. The Chief Guest of the program was Dr. Hermann Koch Siemens AG, Energy Management Division Transmission Solutions, Germany who shared his experiences on AC and DC Gas Insulated Transmission Lines, with various Utility Case Studies and Experimental Test studies.



*Dr. Hermann Koch addressing the audience at Chanakya Hall NIT Calicut*

There were about 140 participants across the state covering 31 Practicing Professionals and Engineers from Utility and Industry, 18 faculties from various academic Institutions and 91 Researchers.

The welcome address was given by, Dr. Ashok S(Prof. EED and Branch Advisor IEEE PES) . Er. Suhair A.K (Chair, IEEE PES Kerala Chapter) given a brief note about various IEEE PES activities and its benefits to the society. The Chief Guest, Dr. Hermann Koch was introduced by Dr. Kumaravel S. (Asst. Prof EED and Branch Counselor IEEE PES), with brief academic profile and his achievements.

The Distinguished speaker, Dr. Hermann Koch, delivered the lecture in two sessions on AC and DC Gas Insulated Transmission Lines from 11:30 am to 01:30 pm. In the first session, he discussed

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1. On 18-01-2018 Prof: Jian Sun, USA on 'Power Electronics for Renewable Energy and Power Systems, Opportunities and Challenges'
  2. On 10-01-2018 Dr. Akshay K Rathore, Canada on 'Recent Progress in Current fed Power Converters for High Voltage Gain Applications'
  3. On 19-01-2018 Dr. Vinod Khadkikar, UAE 'Autonomous Microgrids, Operation, Control and Challenges'
  4. On 19-01-2018 Prof: K Gopakumar, IISC, Bangalore on 'Multilevel Inverter Technologies'
  5. On 20-10-2018 Prof: Ashoka K S Bhat, Canada on 'Power Electronics Application in Alternate Energy Systems'

about the technical details of GIL viz. design, construction aspects and testing criteria. Also, the Expert has shown typical GIL installations, and explained its advantages over cables and overhead lines.

The experts from Utility companies raised many technical queries related to GIS Installations, design aspects and practical Implementation considering the cost etc. that made the session very interactive.

In the second session of the presentation, Dr. Hermann Koch explained about the Gas Insulated DC systems, its requirements and Challenges. The session mainly focused on Gas Insulated Switchgears for DC applications, space saving benefits.

Industry experts from (Power Engineering Consultants) asked queries on maintenance and operation cost of GILs compared with the overhead lines and cables.

After the session, Dr. Ashok S. felicitated the chief guest Dr. Herman Koch with a memento as a token of appreciation. Finally, Mr.

Rohit K Mathew (Branch Chairman, IEEE PES) proposed the Vote of Thanks. A group photograph of the participants along with the Chief Guest and other dignitaries was taken and the programme concluded with the working Lunch.



*Participants listening the speaker in the Distinguished lecture at NIT Calicut*



*Dr. Ashok S.(Prof. EED & Branch Advisor IEEE PES ) presenting a Memento to Dr. Hermann Koch*



*A Group Photograph of the Distinguished Lecturer Programme with Dr. Hermann Koch, other dignitaries and participants at NIT Calicut*

## International Women's Day Celebrations

Under the auspices of the IA/IE/PELS Jt. Chapter, Women's day celebrations were planned and held at Musaliar College of Engg, Chirayinkeezhu on Mar 8.

The meeting started at 12.30 pm. The function was inaugurated by Dr Rose Ben, Senior faculty of the General Egg Dept. Prof Shimi Mohan (EEE), Prof Thusara (ECE) & Ms Aswani (CE) spoke on the occasion. They highlighted the

role of Women Engineers in the field of academic, Science & Engg, research and in the home affairs.

Special appreciation to the working women was highlighted in the meeting by Prof Muhammed Kasim. Meeting ended at 1.30pm.

Number of attendees are IEEE members-3 and Non IEEE members-30



## Important Events - Abroad

- July 4-6      2018 IEEE TENSYPM at Sydney, Australia.
- Aug 5-9      PES General Meeting at Oregon Convention Centre, Portland, Oregon.
- Aug 30- Sept 2 SYWL Congress 2018. IEEE Student/Young Professionals/WiE/Life Member Congress 2018 in Prime Plaza Hotel, Sanur Bali, Indonesia. Theme. Collaborative Innovation for Society Development.
- Sept 14-17    ICSPCC 2018. International Conference on Signal Processing, Communication and Computing at Qingdao, China.

***Call for Humanitarian Technology Project/Activities for IEEE R10 sections. TENHUMCH (R10 Humanitarian Challenges). For details see the website...***

## Think, Design & Make . Spider Bot

Reported by: **Shankar J**, Assistant Professor, ECE, UKFCET, Parippally, Secretary, IEEE ComSoc Kerala Chapter

The workshop was on the topic “Think, Design and Make. Spiderbot” held on 11 March 2018 at the seminar hall UKFCET, Parippally at 9.00 am. It was aimed to provide a hands-on experience in 3D printing with robotics and discover its possibilities. The workshop session was covered in two sessions. Forenoon session was introduced with the 3D printing from scratch starting from product development lifecycle of Robot with the introduction to 123D Design and Ultimaker Cura 3.0. The students designed basic models like name placard in 123D Design and worked the way up in designing basic body of Spiderbot. After successful completion of 3D modelling basics, familiarisation of the 3D printer and its software Ultimaker Cura 3.0 was done. Afternoon session kick-started with the familiarisation of Arduino with basic programming. The session went to next level with basic interfacing with servos, Bluetooth and ended with the successful deployment of Spiderbot. Students worked with the Spiderbot and programmed it to perform different gestures. During feedback session, Students have asked

to conduct more sessions like these in the field of 3D printing and robotics. An open forum was conducted after the completion of the workshop. During this session, students have shared their ideas in the field of Robotics and how 3D printing technology can help them to convert their ideas to a product. They quoted that this workshop has enabled them to bridge the gap and would help them to complete the product prescribed in Design Project curriculum in APJ Abdul Kalam Technological University, Kerala. The workshop was handled by Mr. Shankar J, Assistant Professor in the Electronics and Communication Engineering Department at UKFCET, Parippally. He also serves as the Secretary of Communication Society, IEEE Kerala Section.

**Acknowledgment.** Better infrastructure equipped with latest technology provided by the management of UKFCET, Parippally have helped for the smooth conduction of the workshop.

Number participants are IEEE - 2 and Non-IEEE - 25.



## EMBS SB Inauguration

*Reported by: Arun K M, Secretary, EMBS*

IEEE Engineering in Medicine and Biology Society (EMBS) is the world's largest international society of biomedical engineers. The organization's 12,000 members reside in some 97 countries around the world. EMBS provides its members with access to the people, practices, information, ideas and opinions that are shaping one of the fastest growing fields in science. IEEE EMBS members are focused on the development and application of engineering concepts and methods to provide new solutions to biological, medical and healthcare problems.

The inaugural ceremony of the IEEE EMBS in Model Engineering College on 24th of February, Saturday, 2018 was presided over by Prof. Dr. V P Devassia, Principal, Model Engineering College, Thrikkakara in the presence of the Chief Guest of the day Mr. Koruthu P Varughese, Chair, IEEE EMBS Kerala Chapter, Mr. Vivek George, Secretary, IEEE EMBS Kerala Chapter, Mr. Arun K M, Treasurer, IEEE EMBS Kerala Chapter and Mr. Suresh K S, former Secretary, IEEE EMBS

Kerala Chapter. Comparing was done by students Amrutha S Kumar and Kadhambhari followed by the reading of the IEEE EMBS Code of Ethics by IEEE EMBS MEC Staff Advisor, Dr. Minimol B.

The ceremony commenced with the IEEE EMBS Code of ethics and a welcome speech delivered by Dr. Minimol. B. The presidential speech was delivered by the Principal. The inaugural speech and inauguration was done by the Chief Guest Mr. Koruthu P Varughese. Felicitations were given by Mr. Vivek George, Mr. Arun KM and Ms. Vineetha George, IEEE MEC Staff in-charge. The inaugural ceremony concluded with a vote of thanks delivered by Geetanjali Menon, Student Chairperson IEEE EMBS MEC Kerala Chapter and the dignitaries were also presented with a token of gratitude.

This was followed by a talk on "Recent Advancements In the Field of Biomedical Engineering" by the Chief Guest Mr. Koruthu P Varughese, where he gave a insightful talk about this fast growing field of engineering.



The afternoon session was joined by Mr. George Paul, Vice Chair, IEEE EMBS Kerala Chapter. This was followed by a talk on “Introduction and Benefits of EMBS” presided by Mr. Suresh K S where he enlightened students on the various benefits offered by the EMBS.



Soon after the talk by Mr. Suresh K S, an open panel discussion was held.



An Open Panel discussion on the topics.

- ❖ Scope of Biomedical Engineering in India
- ❖ Why do students prefer other countries like the US, Germany etc. while opting for higher studies in biomedical engineering rather than India
- ❖ In accordance with the skills they possess, are biomedical engineers underpaid in India?
- ❖ Biomedical engineers- Are their skills duly recognised in Colleges?

The discussion was attended by Mr. Koruthu P Varughese, Mr George Paul, Mr. Suresh KS, Mr. Arun KM, Mr Vivek V george and Dr.Minimol B. The discussion was moderated by Abhishek Chandrasenan. The discussion threw light on the situation of biomedical engineering in India and highlighted the need to improve the position of the field by providing state of the art facilities. Also, it emphasized the need to recognize the skills possessed by them, so as to flourish the biomedical engineering field in the country. The event ended with a thank you note.



## Scientific Writing Workshop

Reported by: **Arun K M**, Secretary, EMBS

As a part of the Science Week, a Scientific writing workshop was conducted on March 21, 2018 at Sahrdaya College of Engineering and Technology. The inaugural function for the event



presided over by Rev. Fr. Jose Parammel, Associate Executive Director Sahrdaya College of Engineering, Kodakara in the presence of the Chief Guest of the day Mr. Koruthu P Varughese, Chair, IEEE EMBS Kerala Chapter, Mr. Vivek George, Secretary, IEEE EMBS Kerala Chapter, Mr. Arun K M, Treasurer,

IEEE EMBS Kerala Chapter and Mr. Kiran Philip Isaac, EMBS Coordinator SCET SB. The ceremony commenced with the IEEE EMBS Code of ethics which was delivered by Vaishnavi and a welcome speech delivered by Mr. Jithin EMBS Chairperson. The felicitation was done by Mr. Kiran Philip Issac (EMBS Coordinator SCET SB) and Vivek V George (Convenor) Avp strategic alliance and corporate relationship did the keynote. The inaugural ceremony concluded with a vote of thanks delivered by Anu Krishna (EMBS Secretary).



## Technical Co Sponsorship by IEEE for Conferences

Reported by: **Nandakumar** Nandanam, Convenor, CAB

*Procedure followed by IEEE Kerala Section in line with the latest policy by MGA*

1. Organizers to send duly filled in Conference Association Request form to the CAB at an early date based on the nature of the Conference. The request will have to be sent at *12 months before the start of the conference*.
2. CAB after reviewing the application form to communicate its decision (acceptance/rejection/resubmission with modification) back to the applicant *within 20 days after the request is received*
3. On getting acceptance by the CAB, the conference organizers shall file application for conference approval by IEEE Meetings, Conferences & Events (MCE), using online form  
(Available online at. [https://www.ieee.org/conferences\\_events/conferences/organizers/conf\\_app.html](https://www.ieee.org/conferences_events/conferences/organizers/conf_app.html))
4. MCE to send an email communication to the section leadership asking for a decision on how to manage the technical co-sponsor fee.

Effective for conferences for which the creation of the MoU starts after 1 January 2018, the fee charged by MCE are \$1000 per event plus \$15 for each paper that is optionally published in IEEE Xplore®. In addition to this there will be a fee of INR 25,000.00 collected by IEEE Kerala Section to meet its logistics expenses connected to the event

5. The section to decide (on a case to case basis) whether the TCS cost should be billed straight to the organizer or to itself or to be shared between the organizing parties in proportions. This decision to be communicated back to MCE
6. Based on the TCS cost allocation decision communicated by the Section, MCE will serve the fees allocation memo to the conference organizers (or other designated parties).
7. On acceptance of this, MoU is fully executed and the conference is finally approved. The designated party for the conference will be billed in the month following the end of the event

## Important Activities/Events 2018

- Jan 3** Technical talk on Complex Networks. A Networking Perspective by Abhishek Chakraborty, IISST, Tvpm.
- Jan 6** Ockhi. A brainstorming session on Safety Requirements for Artisanal Fishers at IEEE Office, Tvpm at 17.00 hrs.
- Jan 13** Annual General Meeting (AGM) of IEEE Kerala Section at 16.30 hrs at Hotel Appolo Dimora, Oppo. Central Railway Station, Tvpm.
- Jan 31** Talk on - Movement Disorders and Modalities - An Engg Approach by Jithin Krishnan, SCTIMST, Tvpm.
- Feb 4** First Execom meeting of IEEE Kerala.
- May 20** Workshop on Mini-Panel of Conference organizers at Vishakapattanam, AP.
- Mar 17** Second Execom meeting of IEEE Kerala Section from 10.45 to 13.20 hrs at The Dunes, Kochi.
- Mar 23-24** ICCPCCT 2018. International Conference on Control, Power, Communication and Computing Technologies at Vimal Jyothi Engg College, Kannur, Kerala.
- Mar 21** Workshop on IEEE Standards and Scientific Writing at Sahridaya College of Engg & Technology, Kodakkara, Thrissur.
- Mar 18** EMBS Execom meeting at 15.00 hrs at Harmoniee, IEEE Office, Tvpm.
- Mar 21** World Water Day Celebrations. Talk by Dr. Xavier K Jacob at IE Hall, Tvpm.
- Mar 28** Technical talk by Koruth P Varughese on Role of Clinical Engineers in Hospitals at IE Hall, Tvpm.
- April 5** Technical talk on Transforming Kerala - A Sketch of City Natural Gas Distribution by Ms. Aisha Nazia Nasir Mayin at IE Hall, Kochi.
- Sept 7-8** IEEE WiE International Leadership Summit at The Taj Gateway, Cochin organized by IEEE Kerala Section.
- Nov 23-24** GCWCN 2018. IEEE Global Conference on Wireless Computing & Networking at Sinhgad Institute of Technology, Pune, India.

IEEE Kerala Section



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