



Program Reports

Annual General Meeting 2018

The Annual General Body of IEEE Student Branch College of Engineering Karunagappally was conducted on 01/02/2018. The program commenced with the IEEE Code of Ethics followed by the introduction of updated IEEE Student Branch Constitution familiarization to new members. The counselor and advisor of IEEE SB CEK addressed the students. Election was carried out under the guidance of former Execom and new office bearers were elected.





SCIENCE DAY 2018 (1/03/2018 – 02/03/2018)

IEEE Student Branch College of Engineering Karunagappally in cooperation with the science day celebrations had conducted programmes on 1st and 2nd March 2018. The programmes were organized as per the students to get more valuable information about the need for celebrating the science day and its advancements in every aspect of living. The first day was to introduce the IEEE Spectrum magazine to the juniors which gives us a clear idea about the latest engineering, technologies and science news followed by a science quiz competition on the second day. The topics were already discussed with the contestants and the brightest were awarded by a cash prize of rupees 500 on the end of the ceremony by our beloved IEEE Counselor Mrs. Sabeena K (Asst. professor CS dept. CEK) .Student strength of almost 50 participated the Quiz competition and a count of 65 students of all department attended the spectrum talk.





WOMEN'S DAY CELEBRATION

FIRST PHASE (08/03/2018)

IEEE Student Branch, College of Engineering Karunagappally (IEEE SB CEK) in association with IAS SBC and WIE AG 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 8th and 9th of March 2018. The first phase of the program was started by the inaugural address by our Counselor Mrs. Sabeena K (CS Department) followed by a quiz competition for the IEEE members of our college. All the members actively participated the quiz competition.



SECOND PHASE (09-03-2018)

The second day of Women's Day celebration was exclusively for girls. An interactive session was taken by Dr. Jyothilekshmi on the topic "*HEALTH AND PERSONAL HYGINE*". There was an active participation of 60 students from all the department of the college. The session was very helpful and effective.

The winner of quiz competition ReenaYohanam 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.







ETHICAL HACKING WORKSHOP

IEEE Student Branch, College Of Engineering Karunagappally (IEEE SB CEK) had conducted an “**ETHICAL HACKING**” workshop on 22nd and 23rd March as to enhance the young ignited minds. The two day workshop was conducted with the assistance of expert professionals from Network Solutions pvt.limited Kollam. The workshop was inaugurated by our beloved principal Dr. Jaya V L and the Welcome speech was delivered by our IEEE Counselor Mrs. Sabeena K. Miss. Athira (System Analyst, Network Solutions) had an interactive session with the delegates explaining the major difference between Cracking and Hacking. The first day of the workshop was focused to create a knowledge to the students about the need of hacking and its norms to be followed. The second day concentrated in increasing the practical knowledge of the delegates in handling Kali Linux. The workshop was a great successful with the strength of 25 delegates. Not only students of Computer Science branch but also from other branches too actively participated in the workshop.





POWER AND ENERGY SOCIETY DAY CELEBRATIONS'18

IEEE Student Branch College of Engineering Karunagappally (IEEE SB CEK) had conducted the Power and Energy Society (PES) day celebration on April 13th 2018 at the College Electrical Machines Lab. The program was blessed with the presence of our college principal Dr. Jaya V L and our advisor Mrs. Sabeena K (CS Dept.). The welcome speech was delivered by our IEEE PES chairman Hari Prasad (S4 EEE) and he discussed on the introduction and the importance of celebrating the PES day. The IEEE PES Day Ambassadors had a talk on their wonderful experience with the students to ignite the young sprouted engineers. Success is never a one step process; we were truly honored to have Mr. Anandhu S Kumar, the IEEE Kerala Section Outstanding PES Student Volunteer Award Winner (Former Chair of IEEE SB CEK) who had an interactive session with the students informing them the importance of IEEE PES Chapter and his experience in this venture. The PES day celebrations became fruitful with the cake cutting ceremony by our chief guest and distributed among the faculties and the members, afterwards the Electrical Machines were introduced to the first year students. The PES chairman also discussed the future activities; ideas and open suggestions from the PES members to enhance the PES Chapter were also welcomed. All the IEEE members of about 70 actively attended the ceremony. The program ended with a photo session at 4 pm.





ORIENTATION PROGRAM 2018

IEEE Student Branch, College of Engineering Karunagappally (IEEE SB CEK) decided to conduct an orientation class on IEEE for first year students (2018-21) on 4th August 2018. The program started at 9.30 AM with a prayer. After that IEEE SB CEK chairperson Ms. Anukrishna A J read out the IEEE code of ethics. IEEE SB CEK secretary Ms. Ranjitha delivered a talk on 'History of IEEE SB CEK'.

The forenoon session mainly concentrated in the familiarization of IEEE SB, followed by different ice-breaking sessions in between. Mr. Anandhu S Kumar helped the students to understand the benefits of IEEE. After the lunch break Hari Prasad (S3 EEE) started his class by introduction of current technical updates of IEEE, followed by another class on benefits of IEEE for KTU students. The program was very helpful for the first year students.





In the afternoon session IEEE SB Vice Chairperson Mr. Akshay Krishnan took a technical session on quad copter. The new technical aspirants with fresh mind got a clear idea about the new technologies and its' scope through this session.

After that session, an interesting session was there to invoke the hidden talents and creativity in the fresher minds. The students were divided into different teams and gave each team some scratches and waste materials.

Using their creativity, idea and talents each team produced a useful item from those scratches and also advertised their product in front of judging panel and other students. The judging panel includes senior SB EXECOM members and Mr. Anandhu S Kumar (Mentor, IEEE SB CEK). The best team with best product was chosen by the judging panel. Students really enjoyed this idea and product developing session and they were very much satisfied with the session

There were 74 participants for the program. The feedbacks from the attendees were positive and satisfying. Mr. Anandhu S Kumar cleared all their doubts regarding the IEEE and all of them assured to join IEEE and to be an active volunteer.



IEEE DAY CELEBRATION

IEEE SB CEK celebrated the IEEE day 2018 on 5th October 2018. IEEE SB CEK

Vice Chair Mr. Akshay Krishnan cut the cake and also addressed the student members and gave a brief description about the upcoming technologies and latest innovations.





SECTION DISTINGUISHED LECTURE PROGRAM

IEEE Student Branch College of Engineering Karunagappally conducted a Section Distinguished Lecture Program on 5th of October 2018. The program was a lecture session on VLSI Design: Processes, devices and circuits. The session was handled by Dr Sreelal Sreedharan Pillai (Scientist /Engineer ,VSSC/ISRO, Trivandrum) .He is a senior member of IEEE, a life member of electron devices society of IEEE, member of National Distinguished Lecture Program, member of Technical Program Committee of several National and International conferences including International Symposium on Circuits and Systems. He is reviewer for journals including IEEE potentials magazine. The session started at 2:00 pm in the seminar hall of D-Block of Electronics and Communication Department. The session discussed about the origin of VLSI, its importance, devices and their characteristics, circuit design and simulation of circuits and advanced VLSI design.

The welcome speech and vote of thanks were proposed by Swathy S (S7 EC) and Aiswarya Joseph (S5 EC) respectively





CODING CONTEST BY UST GLOBAL

The quote “*Opportunities serves for those who listens* “ is once again proved to be true as Mr Ashik P was selected to finals of the coding competition yet to be held soon. He was the only candidate willing to participate in the given time in given place and joy erupted as the words spread that he was selected to the finale.

Mr Ashik P from TKM College of Engineering was present early at CEK as he was informed about the directions to reach the centre even though he didn't know the route at about 9 15. The competition started as scheduled and the contestant enjoyed the competition as well as refreshments given. Mr. Ashik left the centre after the competition ,exchanging pleasantries with volunteers and a photo session. A memorable day to be held.





One Day workshop on Aurdino

IEEE SB CEK in association with PES and IAS Student Branch Chapter conducted one day workshop on aurdino on 25th November 2018 the workshop mainly discussed basic programming , driver controlling , system integration etc... Mr. Hari Prasad (PES Chair), Mr. Akshay Krishnan (SB Vice Chair) handled the workshop





MDI EVENTS

RENEWABLE ENERGY AWARENESS PROGRAM

Power and energy society (PES) under IEEE Student branch of college of engineering Karunagappally (IEEE SB CEK) had conducted a Renewable energy awareness program including a designing competition in six different schools in the college locality under the guidance of college faculties. The program was inaugurated by our current PES chair Mr. Hari Prasad in the presence of school faculties and active IEEE student volunteers of our college. The Six different schools throughout the journey were:

- 1 BOYS HSS KARUNAGAPPALLY
- 2 MODEL HSS KARUNAGAPPALLY
- 3 AL-AMEEN CENTRAL SCHOOL KARUNAGAPPALLY
- 4 GIRLS HS KARUNAGAPPALLY
- 5 GIRLS HSS THAZHAVA
- 6 GOVT HSS THODIYOOR

PROGRAM STRUCTURE

1) BOYS HSS KARUNAGAPALLY:

The program was held on 18th July 2018 with 31 students. The program included different sessions such as IEEE introduction, MDI introduction, Power point presentation on the topic “Renewable Energy” and healthy discussion on different types of renewable energy sources



2) MODEL HSS KARUNAGAPPALLY

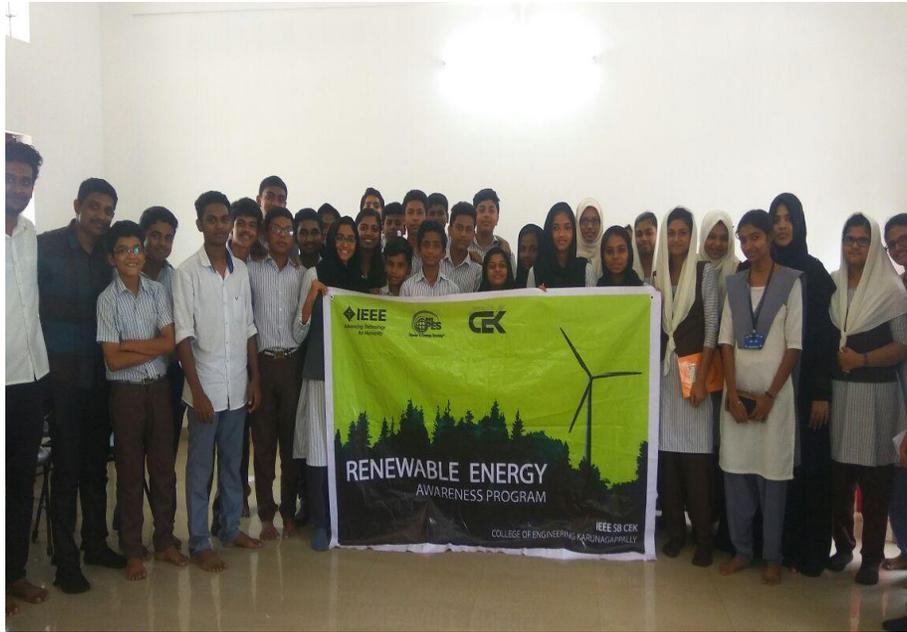
The program was held on 19th July 2018 with 49 students. The program included different sessions such as IEEE introduction, MDI introduction, Power point presentation on the topic “Renewable energy” and a healthy discussion on different types of renewable energy sources



3) AL-AMEEN CENTRAL SCHOOL KARUNAGAPPALLY

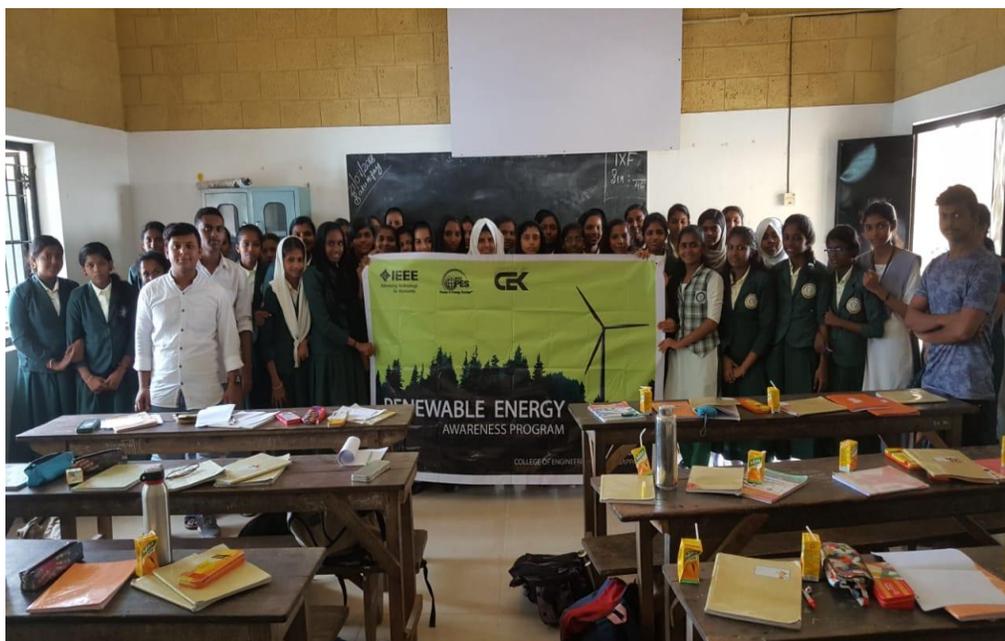
The program was held on 21st July 2018 with 31 students. The program included different sessions such as IEEE introduction, MDI introduction, Power point presentation on the topic “Renewable Energy” and a healthy discussion on different types of renewable energy sources





4) GIRLS HS KARUNAGAPPALLY

The program was held on 23rd July 2018 with 41 students. The program included different sessions such as IEEE introduction, MDI introduction, Power point presentation on the topic “Renewable energy” and a healthy discussion on different types of renewable energy sources





5) GIRLS HSS THAZHAVA

The program was held on 24th July 2018 with 104 students. The program included different sessions such as IEEE introduction, MDI introduction, Power point presentation on the topic “Renewable Energy” and a healthy discussion on different types of renewable energy sources

6) GOVT HSS THODIYOOR

The program was held on 25th July 2018 with 60 students. The program included different sessions such as IEEE introduction, MDI introduction, Power point presentation on the topic “Renewable Energy” and a healthy discussion on different types of renewable energy sources





LUXATHON

LUXATHON- 24 Hr National Level Light Designing Hackathon. Participation ranging from all over India Council

Date: 28, 29 and 30th September 2018

Venue: College of Engineering Karunagappally, Kerala Section , India

“Any sufficiently advanced technology is indistinguishable from magic”

These words of Arthur C Clarke makes us believe in the power of technology and that technology is not just a tool but a voice given to the learners that they may not have had before.

The IEEE Power and Energy Society (PES) provide the world’s largest platform for sharing the latest technological development in electric power society. The IEEE Student branch CEK in association with PES student chapter college of engineering karunagappally had conducted the massive technical extravaganza LUXATHON –a 24 hour electrical hackathon ,which gave the way for the vibrant brains to master the world by means of a light designing competition on 28th,29th,and 30th of September 2018.College of Engineering Karunagappally is a premier institute of engineering that has carved a niche for itself in the field of technical education in a very short span of time with a mission to provide education through resourceful programs that are stimulus to the current and emerging needs of the society. The three day event was supported by IEEE PES HQ through its member driven initiative campaign and by winning Rs.75000 fund from MDI PES.

DAY 1

The first day of the event, 28th September 2018 was very peaceful with splendid delegates around the country .The registration had started by morning 8:30.The official inaugural ceremony of LUXATHON began at 9:30 am with prayer song delivered by Miss. Megha Walter (S7 CSE) followed by the IEEE Code of Ethics orated by our IEEE SB CEK chairperson Miss. Anukrishna A J.The welcome speech to address the mass was persuaded by our IEEE SB Counselor Mrs.Sabeena K (Asst. prof CSE Dept).The presidential address was delivered by our beloved college principal Dr. Jaya V L. The official inauguration of LUXATHON was lighted by our chief guest Er. Dharesan Unithan (Director, Energy Management centre Trivandrum) followed by his inaugraual address. Fruitful felicitations were delivered by Prof. Biju K who supports the student branch in her growth and by Mrs. Haseena P Y (IEEE PES SB Chapter Advisor). As the IEEE SB CEK won the IEEE Region 10 Exemplary Award 2018, a caking cutting function was hosted in between and we shared our joy all the mass gathered for the inaugural ceremony.

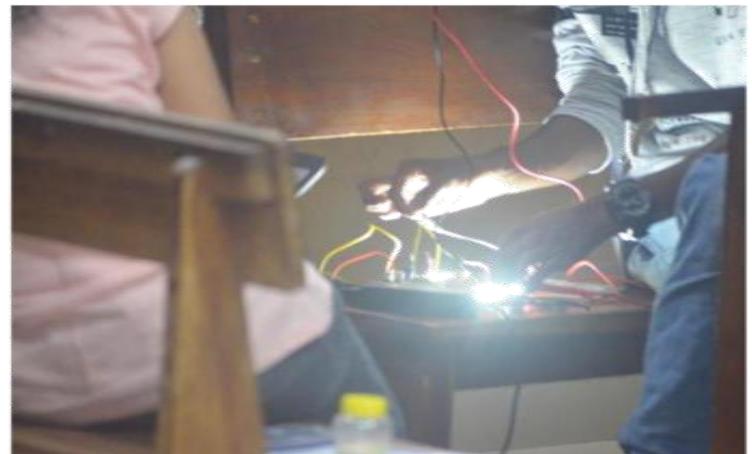


The thank you note was enlisted by our IEEE SB Mentor Mr. Anandhu S Kumar. After the official inaugural ceremony of LUXATHON the keynote address was delivered by Er. Dharesan Unithan (Director, EMC) followed the interactive session were started and the first session was handled by Er.A M Narayanan (Head, Energy Efficiency Division, EMC) on “illumination policy”. second session was on the topic “performanceevaluation of lighting systems” taken by Er.Suresh Babu S (Accredited energy auditor, MD, Ottotractions Limited, Trivandrum) which helped the delegates to understand the concept of the light designing contest .The third session was delivered on the “New trends in lighting and the lightdesigning method by using DIALux software” which ignited the young minds to implementationconcept of Luration by Er. Toms Maly. A session on “Introduction to Luxathon” was taken by the Luxathon team. After all the technical sessions the fun just got began with awesome performance by the IEEEians of CEK as well as the delegates.



DAY 2

The second day of the LUXATHON was very energetic with the delegates setting up their minds against all odds and marched to the battle field. The 24 hour light designing competition had started sharp at 11 in the morning. All the 10 teams around the country competed with their brains and strength.





DAY 3

Day 3 was the final day of the “LUXATHON”, the competition was completed at 11 am.

The expert panel of judges Mr. Raju M (Asst.Prof College of Engineering Chengannur), Mr.Shibu V (System Analyst, College of Engineering Karunagappally), Mrs.Radhika (Asst.Prof College of Engineering Karunagappally) analyzed the designs and ended up to the conclusion. The closing ceremony of Luxathon 1.0 was started at 2pm afternoon, with the eagerly awaited moments for the delegates. Mrs.SunithaBheebi (Vice chair IEEE PES Kerala Section), an icon of wonderful personality declared the final winners of Luxathon. The first prize worth Rs.12000 was won by the team Saintgits College of Engineering, Kottayam (IEEE Kerala Section) with the team members Betsy elzavarghese, Jeremiah Reji, Sneha Susan Abraham and Tibinmon P.M. The second prize worth Rs. 5000 was won by the team Model Engineering College, Ernakulum (IEEE Kerala Section) with team members M R Lakshmi Priya, Maria Teres Victor, M Hridya, Sahla V H and Tharik Anwar. The third prize worth Rs. 3000 was won by team Vardhaman College of Engineering Hyderabad (IEEE Hyderabad Section. The vote of thanks to all those who supported for this event from the beginning to the end was persuaded by Mr.Akshay Krishnan (Vice Chair, IEEE SB CEK).







WOMEN IN POWER SUMMIT

As a part of 'Women In Power Summit', a national level technical summit to empower women technical aspirants across the country, IEEE SB CEK has conducted a pre event at two colleges each from Malabar hub and Kochi hub.

- i) Pre Event at College of Engineering Trikaripur

TALK ON PLUG-IN ELECTRIC VEHICLES OPPORTUNITIES AND RESEARCH CHALLENGES

PRE-EVENT OF "WOMEN IN POWER SUMMIT"

POWER ENERGY SOCIETY of IEEE SB CETkr conducted a half day event on 6th October 2018 on the topic "PLUG-IN ELECTRIC VEHICLE'S OPPORTUNITIES AND RESEARCH CHALLENGES". It was a pre-event of "WOMEN IN POWER SUMMIT" Organized by IEEE SB CEK. WIPS is a national level technical symposium of passionate and enchanting student engineers. WIPS is a new initiative of IEEE SB CEK.

The session was preceded by an inaugural ceremony presided over by our honorable Principal Dr. Vinod Pottakulath. Mr. Prasanth, staff coordinator IEEE SB CETkr delivered the welcome speech. Mr. Sreekanth P, Assistant Professor, Dept of Electrical and Electronics Engineering addressed the gathering. Kumari Anusha M P, Chairperson IEEE SB CETkr delivered vote of thanks. The session was handled by Dr. Ajay Babu, Assistant Professor, Dept of Electrical and Electronics Engineering, NSSCE Palakkad. The session covered different areas of plug-in vehicles, which include evolution of plug-in electric vehicles, general block diagram, different types of plug-in vehicles, different operating modes etc. A discussion on plug-in electric vehicles and its relevance in smart grid, its opportunities and research challenges were conducted. The session was interactive. The resource person ensured active participation of the students by including questioning sessions and providing rewards for the correct answers. The event was conducted in the main seminar hall of our college at 1pm. About 107 students actively participated in the session. The session was mainly focused on final years and pre-final years of EEE Dept but had active participation from students of all the department. The session was wrapped by giving a token of love to Dr. Ajay Babu from IEEE family of CETkr.



ii) Pre Event at Vidya Academy of Science and Technology, Thrissur

A program was conducted in association with the PES chapter of Vidya Academy of Science and Technology as a pre event of WIPS on 29th October 2018.

WIPS (WOMEN IN POWER SUMMIT)(09/11/2018 -11/11/2018)

WIPS is a national level technical symposium of passionate and enchanting student engineers. The event was conducted for three days from 09/11/2018 to 11/11/2018. The event mainly focused on empowering girl students by enhancing their technical knowledge and by motivating them through the words of some eminent motivational speakers. The audience of the event was engineering students (both girls and boys) from all over Kerala. 62 participants from all over Kerala witnessed this grand event.

Day 1 (09/11/2018)

Registration for the event started at 8.30 AM. The inaugural ceremony started with a prayer at 10.00 AM. Following the prayer Ms. Anukrishna A J (chairperson, IEEE SB CEK) read out the IEEE code of ethics. IEEE SB CEK counselor Ms. Sabeena K delivered the welcome speech. The presidential address was given by Dr. Jaya V L (Principal, CEK). Ms. Ilakkiya IAS (Assistant District Collector Kollam) inaugurated the event by lighting the lamp and gave a short inaugural address.





Fruitful felicitations were delivered by Ms. Mini Ulanat (Chairperson, IEEE WIE AG Kerala Section), Prof. Biju K (MDI Coordinator, IEEE PES Kerala Chapter), Er. Shanu N (Coordinator, Kerala Section DLP) and by Mrs. Haseena P Y (IEEE PES SB Chapter Advisor). Mr. Hari Prasad (Chairman, PES chapter IEEE SB CEK) gave the vote of thanks.

After the inaugural ceremony, the chief guest Ms. Ilakkiya IAS gave a key note address and shared her 'Life Experience – The Way to UPSC' with the attendees. It was an amazing session and she spread her positive and vibrant attitude to all the attendees presented there.

Following the interactive session there was a technical session handled by Ms. Mini Ulanat on the topic 'Disruptive Innovations'.

The event resumed after a lunch break at 1.00 PM. A technical visit to Rajiv Gandhi Combined Cycle Power plant owned by NTPC, Kayamkulam was conducted for the participants and coordinators of WIPS from 1.00 PM to 6.00 PM. After the technical visit, there was an 'icebreaking and networking' session handled by Mr. Jishnu Krishna (Secretary, IEEE CS chapter, Kerala Section). The next session was on the empowerment track handled by Ms. Sreepriya Ramanath (Co-Founder, Pehia Foundation). She took a brilliant session to invoke the young minds through her talk on 'Figure out the real You in You'. Day 1 of WIPS had a great climax with a heavy cultural night and dinner.





DAY 2 (10/11/2018)

The second day of WIPS started at 9.00 AM with three parallel workshops. The participants were given the opportunity to select the workshop of their interest.

The Li Fi workshop for Electronics and Communication aspirants attracted many participants and gave the attendees a clear idea about this wireless optical technology.

‘Machine Learning’ workshop for Computer Science aspirants were another attractive workshop of WIPS. Ms. Ramya R S and Ms. Sabeena K (Assistant Professors, CSE Dept. College of Engineering Karunagappally) handled the workshop and gained a lot of positive feedbacks from the participants.

‘Electrical Garage’ workshop for Electrical and Electronics aspirants was one of the unique surprises of WIPS. The participants got a wonderful opportunity to dig into the depths of electrical field through this workshop. The workshops ended at 4.30 PM.

The next session on the empowerment track was taken by the renowned Radio Jockey R J Neena on the topic ‘Women Empowerment’. The session gained a lot of appreciation and positive responses from the participants as well as the faculties.

The next session was on the technical track handled by Mr. Shalvin P D (Corporate Trainer and Consultant) on the topic ‘Web Development using Angular’.

Day 2 ended with a grand DJ party and dinner.



DAY 3 (11/11/2018)

The sessions of third day of WIPS started with a vibrant session handled by Er. Anandhu S Kumar (Mentor, IEEE SB CEK) on the topic “The benefits of IEEE and PES membership”.

After the tea break there was a great session on the empowerment track handled by Ms. Zara Sheikha (Senior HR, Ford). She took an amazing session on “Gender Equality”.

The next session on the technical track was “An Overview- How to write a Technical Paper” handled by Er. Deepa A K (Associate Professor, SCT College of Engineering).

After the lunch break the wind up session of WIPS 2018 took place with a small official closing ceremony which was followed by certificate distribution and a photo session.



