ANNUAL GENERAL MEETING

2017-2018

1. **Annual General Meeting 2017-'18**

Annual general meeting 2017-18 was conducted on march 1st 2017. The event started of with the code of ethics by IEEE formal chairperson R Sreehari. The annual report was presented by IEEE former Secretary Gayathri Gopal V in which she explained the events that were conducted in the year 2016-2017, After which Mr.Anoop K Johnson MBCET IEEE Student Branch Councilor talked about the previous year performance of our IEEE branch.After which the introduction of the new execom council of students took place and also marked the official beginning of two new societies Bio-Medical Society and Signal Processing Society.After which EC department HOD Dr. Jayashree talked to the new execom members and conveyed her best wishes.

The IEEE link representative Akshay Jayan also talked about the upcoming events and ends his speech with an encouraging note.

The new IEEE chairperson Abishek V talked about the objectives and goals that have to be fulfilled in the year 2017-2018 and that marked the end of the meeting.

Women Empowerment

1. **Women Empowerment**

Women's day is celebrated each year worldwide, still none prioritize the gender except being reminded each day of its existence. We had organized a talk on this auspicious day under WIE and WSU in association with Adharva (EC tech fest). It was cordially conducted from 3:45-4:30pm on March 10, 2017. A renowned journalist Ms. Sindhu Sooryakumar who is the first Trivandrum lady bureau chief from Asianet has sparked a few minutes of her precious minutes in brushing back over the eye of society. Though it was a casual talk about gender equality, it had highlighted each struggle of the beautiful creatures called women through each phases of life. Our bursar, Fr. Wilson Thattarathundil gave a memento as a token of gratitude. The limelight was shared by Anna Susan Raj, Chairman of WIE for the welcome speech, and prayer by Shruti Sajan, speaker profile by Gayathri Gopal and vote of thanks by Christiana Sajan. Furthermore, as a part of the inauguration of Adharva and as a tribute for the woman all around the world, we had a balloon raising ceremony.

RC Racing

2. __RC Racing__

"If you have everything under control, you're not moving fast enough"-Mario Andretti

18th March, 2017 saw the culmination of such an event that marked the beginning of Adharva 2k17, first ever Electronics and communication technical fest of Mar Baselios college of engineering and technology.

Out of the 10 exquisite events, RC racing added vigour to the fest.

The task consisted of racing through a sandy terrain filled with inclined planes, steep slopes and extra credit bounced for the speed and efficiency. The major eye-catching and cumbersome task in the game was to pot the balls in holes which credited extra points. The task was made difficult by humps and maze at the end.

The teams got ample time to get accustomed to the track, that is, from 9:00 am to 4:30 pm within which they had to prove their efficiency by completing the track in the minimum time.

Out of those who competed (team of two), team from Pondicherry bagged the first (prize money of 6K) and home team gained triumph over the other teams.

Associate professor and Head of the EC department, Ms.M J Jayasree graced us with her presence at the occasion and distributed the prizes. IEEE branch councillor Mr.Anoop K Johnson honoured the occasion with his presence.

State Level Training for Women on Self-Defence

3. **State Level Training for Women on Self-Defence**

State level training for women on self-defence was conducted by Mar Baselios College of Engineering and Technology under WSU and WIE on 29th March, 2017 from 10am to 11:15am.

Our principal Dr T.M George gave away the welcome speech. Dr G Kishore, principal LNCPE briefed about the program. The inaugural address was given by the chief guest Princess Pooyam Thirunal Parvathi Bhai. The keynote address was given by Dr.Arul R.B Krishna,IPS,DCP.

In the inaugural function, Mrs Manju Pillai, Trustee, Swasthi Foundation was declared as the Brand Ambassador of snehajwala by the chief guest. the felicitation were given to Mr.Madhupal,Director and Artist,Swasthi Foundation, Mrs. Manju Pillai, Mr.Abey George, General Secretary, Swasthi Foundation and Ms Parvathi Nair, ProgrammingHead, Red FM.

Students of SAI did a performance on the basic steps of "Kalari" and "Taekwondo". The session was concluded with the vote of thanks by Dr M J Jayashree, President Women's Studies Unit, Mar Baselios College of Engineering and Technology. After the inaugural function an awareness class on how to deal with attackers were taught to the students who attended the session.

AKYS-ALL KERALA YOUNG SCIENTIST

4. AKYS-ALL KERALA YOUNG SCIENTIST

"The Art and Science of asking questions is the source of all knowledge", as quoted by Thomas Berger.AKYS-2017 was a best example for this saying.On April 1st AKYS 2017 was organized by the IEEE SB of Mar Baselios College of Engineering and Technology in association with Crossroad 2017.The event was conducted for the first year engineering students of Kerala,for which students from different colleges have taken part.

A Prelims was conducted two weeks before,for which a set of Quiz Questions where forwarded to all the colleges.Thus the selected students from various colleges have shown up for the prestigious AKYS-2017.

The event started off with a talk by Alka Ajith, who was the former chairman of IEEE sb of MBCET. Her encouraging words have lightened up the spirits of participants .Soon after the technical event started.

The whole event has been divided into three phases. The initial round was a quiz round in which the participant's general engineering skills and aptitude was tested.Followed by an idea presentation round in which the participants were asked to come up with new ideas for women safety equipment, for which they have came up with great ideas.The last round was Treasure hunt for which the whole MBCET campus was utilized. Six places where allotted for the same. And at each place different technical aspects are configured like soldering ,led displaying, component identification etc…

Throughout this event the participants where continuosily evaluated by a panel of teachers which include EC dept HOD Dr M J Jayashree and Ms Deepa P L .The participants were evaluated for their creativity ,innovative ideas, cooperation and coordination as part of a team and engineering skills.

AKYS 2017 came to an end with the concluding speech by the branch councillor of MBCET IEEE students branch Mr Anoop K Johnson, followed by prize distribution. The title All Kerela Young Scientist 2017 is backed by Abhinav of Govt Engineering College BartonHill, He was also awarded a cash prize of rupees six thousand.The first runnerup title was backed by a student of MBCET and was awarded by a cash prize of rupees four thousand.The second runnerup title was backed by Maria of SCT and she was awarded by a cash prize of rupees two thousand.

The whole event was foreseen and guided by the branch councillor of MBCET IEEE students branch Mr Anoop K Johnson. And the coordinators team lead by Abishek V, Sangeetha S Nair, Anna Susan Raja, Anjana S effectively coordinated the volunteers and conducted the event smoothly and successfully.

SOLAIRE

5. __SOLAIRE__

The shift towards clean and reliable energy is of great importance in our present era. Solar energy, the most important renewable form of energy, is not just a substitute for the non-renewable sources but also comes with a great advantage of zero pollution and zero percent global warming. A two day training program on solar power plant installation was conducted by IEEE Kerala Section Educational Activities hosted by Mar Baselios College of Engineering and Technology on 22nd and 23rd April,2017. The workshop was focused on the awareness of the rules and regulations regarding the installation process and the skills and expertise to carry the process of installation. The workshop was attended by 48 candidates.

The inauguration was held on 22nd April from 11:30-12:30pm.Dr. VK Damodaran, Chairman at Centre for Environment and Development, Mr. Shan S, Chartered Engineer MNRE, Mr Ajith Gopi, Head of High Capacity Solar PV power plant pgm, ANERT Jayaraj, Electrical Inspectorate Engineer, Ms C Divya, Asst Professor EEE Dept. Mr. Nandan, Secretary, IEEE Kerala section and Dr M J Jayasree, Head of ECE Dept were present in the dias. The chief guest for the ceremony was Dr. VK Damodaran.

The first session regarding solar panel installation was taken by Mr Shan, General Manager of Solstar Power Tech Private Ltd and the charted engineer for MNRE. In the second session, the students were taken for a field visit to the college solar power plant station. On the second day, Mr Ajith Gopi gave away a theory class on the possibilities of solar energy on various fields and its applications.

IOT WORKSHOP

6. IOT WORKSHOP

"The Art and Science of asking questions is the source of all Knowledge" as quoted by Thomas Berger, was well proved by the workshop conducted by IEEE SB (CSI) of Mar Baselios College of Engineering and Technology. The workshop was conducted on 29th April. The workshop was arranged for the s6 students of Computer Science Engineering.The event was led by Mr ARUN KRISHNA from 9.00 AM to 4 PM.38 candidates have taken part. The students were divided into groups of six and each group was divided with a kit for the hands on session.

The scheduling of the workshop was in the order such that IOT and Arduino Introduction was given from 9.30 to 10.30, talk on Wi-Fi module from 10.45 to 1.00 ,then from 2.00 to 3.00 we conducted the introduction and hands-on section on MIT app inventor and finally from 3.00 to 4.00 Interfacing app with Arduino was conducted.

The workshop had turned out to be very productive and informative for the candidates.

ANDROID WORSHOP

7. **ANDROID WORSHOP**

We need to embrace technology to make learning more engaging, because when students are engaged and they are interested, that's where learning takes place. As Android OS has become one of the most used mobile operating system in today's era it is necessary that the students should know how to make an android application. Considering this IEEE computer society MBCET chapter conducted an Android development workshop on 4th November 2017. There were 35 participants including 2nd,3rd and 4th years. It was a one-day workshop. The curriculum taught mainly included XML front end designing and java back end programming. Students were taught to make a basic login and sign up app for a bank, which also included balance check and withdrawal features. The one-day workshop was very carefully planned by the teaching team that the whole section went smoothly with efficient interaction between the students and the lecturers.

MOBILE MAKING WORKSHOP

8. **MOBILE MAKING WORKSHOP**

IEEE MBCET together with Robokart and Innovation Cell IIT Bombay conducted a two day National level workshop on MOBILE MAKING using Arduino and SIM 900 Board. The workshop was held on October 7th & 8th at Mar Baselios College of Engineering and Technology.The workshop was targeted for first year students. The workshop mainly focused on the following areas: Learning to develop mobile Call/SMS, hands on live GSM Board, Learning AT Commands and Arduino Programming. 195 students participated in the workshop. At the end of second day a cake cutting ceremony was held as part of celebrating the IEEE day which was cordially inaugurated by MBCET Vice Principal Mr Vishwanath Rao and IEEE MBCET Branch Counsellor Mr. Anoop K Johnson.The event was a great success as the students were enlightened to a good extend about the basics and few details about Arduino, GSM and related technologies.

CYBER SECURTIY

9. **CYBER SECURTIY**

As part of the IEEE Day celebration a talk on cyber security was conducted by IEEE MBCET in association with WIE, WSU and SIGHT. Cyber security is a shared responsibility, and it boils down to this: In Cyber security, the more systems we secure, the more secure we all are. It was named as "Camouflage" and the session was handled by eminent Mr Philson Philip and Mr Jins from Kerala police cyberdome. The workshop was open to students from all semesters of all branches. The talk started with an introduction into the activities in Kerala police cyberdome by Mr Philson Philp. Then on, Mr Jins spoke about his views on cyber security engaging the audience with his work life as an operations head. The talk was held on 13th October 2017 and around 160 students attended the session. He also engaged in an interactive session and answered the queries raised. The whole event was foreseen and guided by the branch councillor of MBCET IEEE students branch Mr Anoop K Johnson.

SHRIEEEK 2018

10.SHRIEEEK 2018

On the 18th of January 2018, SHRIEEEK 2018 was organized by the IEEE SB of Mar Baselios College of Engineering and Technology.SHRIEEK 2018 was organised by the 2nd and 3rd year students for the 1st years of our college. A total of 176 students participated in the event. With abundant help from the co-ordinators and the volunteers, the event was a huge success. The students after given the time for registration and settling down, was given an introductory ice-breaker session which included a few performances by the participants and some of them shared their expectations in college and their first experience in college. After which a 30-minute talk was given by Mr. Sanju Mathew, an alumina of MBCET and presently the CEO of ONBZY.An introductory talk on IEEE was given. The participants were divided into a total of 20-25 groups, each student was put in groups that contained students from different branches. This gave them a good opportunity to mingle with students from all branches, get to know them and work as a team. After which they were given the time to come up with a group name. This helped increase the team spirit.

With the help of all co-ordinating and volunteering members and the participants co-operation, the event was carried out in a good manner. The students who participated got to have a good time and was introduced to different people from various branches and was properly introduced to IEEE.

The whole event was foreseen and guided by the branch councillor of MBCET IEEE students branch Mr Anoop K Johnson and the coordinators team lead by Christy, Rughma, Tania, Gowri Bhagavathi, Megha Aby, Rohit Satheesan, Akhilesh, Allen Varghese, Ajay Thomas, Jobby, Adithya Venugopal, Viswanath, Harold, Govind, Athul, Pranav, Afsal, Jibin effectively coordinated the volunteers and conducted the event smoothily and successfully.

STHITHI'18

11.STHITHI-'18

Technology is born for a purpose, a purpose of need, a need that transcends to the entire strata of human existence. A multi-faceted aspect that runs our lives these days. Unlike in the era of Pythagoras, nowadays science speaks volume for itself. On 3rd and 4th of February 2018,STHITHI'18 was organized by the IEEE SB of Mar Baselios College of Engineering and Technology.The event was inaugurated by Mrs Sarada Jayakrishnan , the Vice Chair of IEEE Kerala Section and also she is heading the Quality of Blood Bag Manufacturing as Dy. General Manager[QA].

STHITHI'18, a portal to explore the cumulative changes in the advancements of science and evolution of technology. In addition to inspiring and informative speeches from esteemed speakers from around the sub continent a real feel of these technologies in the numerous hands-on sessions were also conducted.

All the six societies of IEEE MBCET Chapter conducted a workshop and a talk respectively.

They are as follows:

1.SIGNAL PROCESSING SOCIETY

Talk

An interesting session on How to Unlearn formulas to understand the fundamentals of signal processing was taken by Sanju Mathew, who is CEO of Onbyz.

Workshop

A journey into the world of signal processing, explored by creating Arduino based music player was done by the guidance of Sanju Mathew, CEO at Onbyz & Benjamin Mathews, VP of Products at Onbyz.

2.ROBOTICS AND AUTOMATION SOCIETY

<u>Talk</u>

An informative session on "Grooming of a successful entrepreneur" was taken by Mr. Gokul V Nath, CEO and founder of one of India's prominent startup Demustango Technology PVT LTD.

<u>Workshop</u>

RAS in collaboration with ROBOCET done a line follower workshop.

3. EMB SOCIETY

<u>Talk</u>

A fascinating session on "Accessorizing yourselves with wearables" was taken by Mr. Jithin Krishnan, Scientist/Engineer in Sree Chitra Tirunal Institute for Medical Sciences and Technology.

<u>Workshop</u>

A two-day workshop on "Health and Wearable Electronics" was taken by NEO GREEN LABS.

4.SIGHT SOCIETY

<u>Talk</u>

A wonderful session on Rural Electrification was taken by Mr. Aneesh Rajendran, Energy Technologist from the Energy Management Cell, Trivandrum.

<u>Workshop</u>

A two-day workshop on the basics of Raspberry pi zero and Python language was taken by Mr. Anil Kumar IEDC MBCET.

5.CS SOCIETY

Talk

An insight on the topic "Technology in Digital Marketing" was taken by Sridev Shyam, Software Engineer and Business Analyst, Offshorent Solutions Pvt.

Workshop

AI would outperform humans at nearly every cognitive task in the future. A two day workshop on Artificial Intelligence - Deep learning was done by Savio Victor and Pranoy , co founders of air.ai.

6.WIE SOCIETY

Talk

An inspirational session on "Entrepreneurship-Creating the future" was taken by Mrs Rina Vivekanandan, Sr Vice President of ECESIS Care.

Workshop

A two-day workshop on the basics of ethical hacking and Introduction to KALI LINUX was done by CEH certified trainers of EC Council.
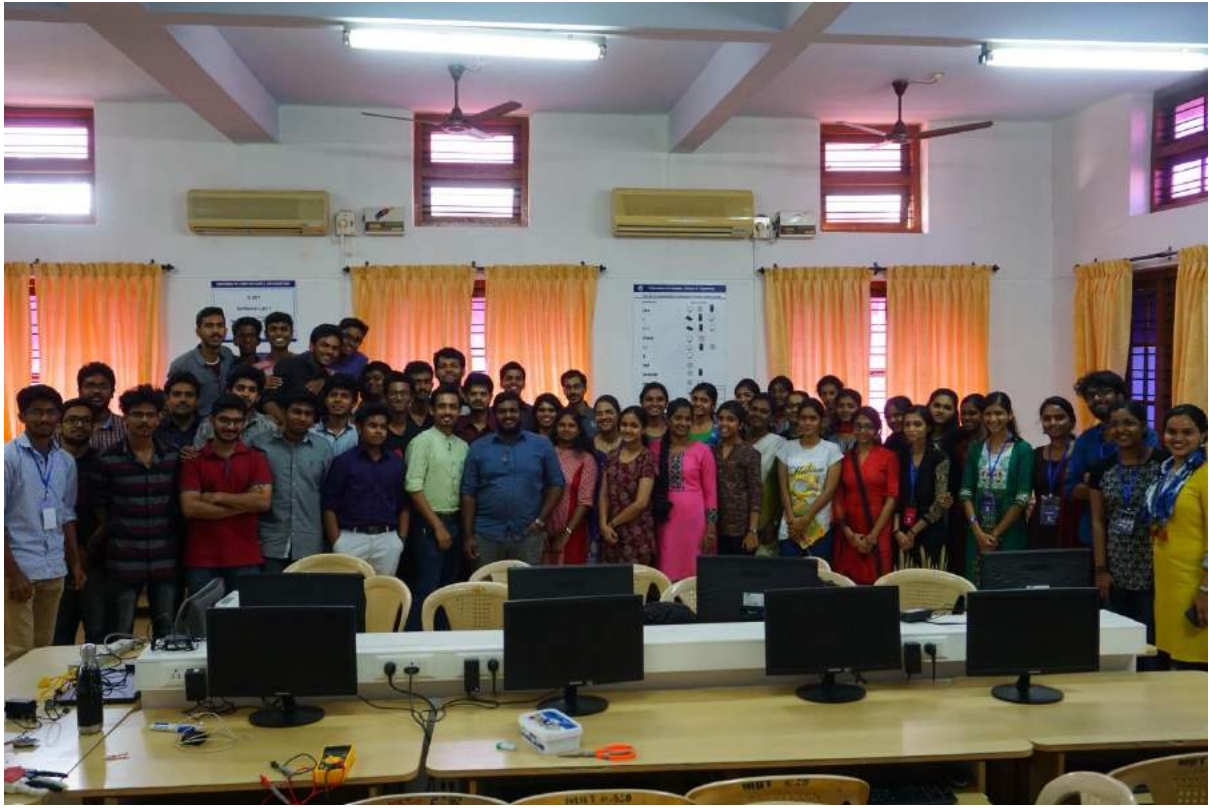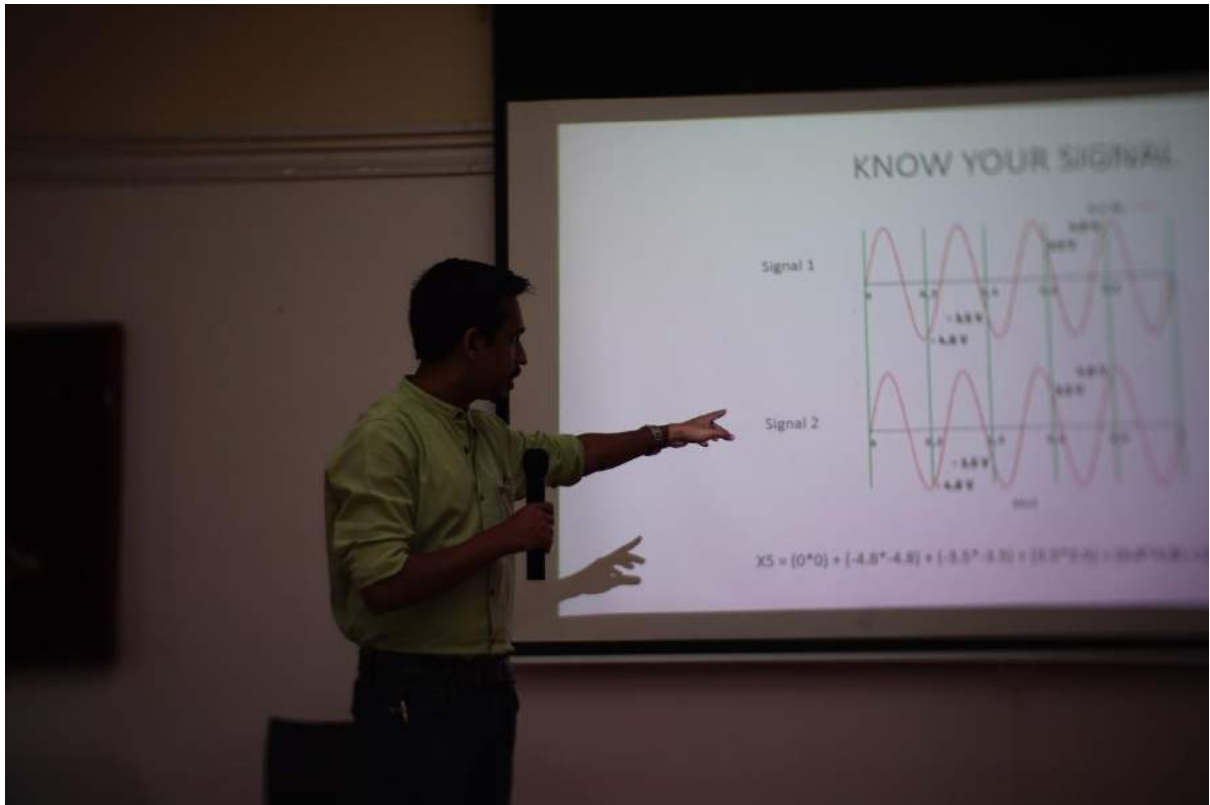
1.OPUS ORATORIO

Signal Processing Society of IEEE MBCET Chapter, in association with STHITHI'18 conducted OPUS ORATORIO at Mar Baselios College of Engineering and Technology on February 3rd and 4th unveiled the hidden applications of Signal Processing. Being the first society of IEEE in 1948, it is dedicated to providing opportunities to network with peers from around the world. A total of 40 students participated for the same.

To unlearn formulas and thus to understand signal processing, a talk session was held. To introduce the adventure of exploring the applications of Signal Processing in real life. The moulding of thinkers and innovators, making them aware of the vital role of signal processing in areas of technology ranging from analysis, synthesis and transforms of signal to attributes of phenomenon such as sound and image was the ultimate aim. First day started off with the most thought-provoking words of Sanju Mathew, CEO at Onbyz fulfilling the purpose which lasted 3 hours after the inaugural ceremony from 10:00am to 1:00pm.

The workshop on BOOMBOX a Dream come true workshop with activities of setting up a talking room. Speakers controlled by Arduino board filled the room with not just sound but pleasant music. The two-day workshop extending from 2:00pm to 4:30 pm on 3rd February and 9:00am to 4:30pm on 4th February was guided throughout by Sanju Mathew, CEO at Onbyz and Benjamin Mathews, VP of Products at Onbyz traversing the exciting path to knowledge in new fields and ideas to the creation of innovative projects.
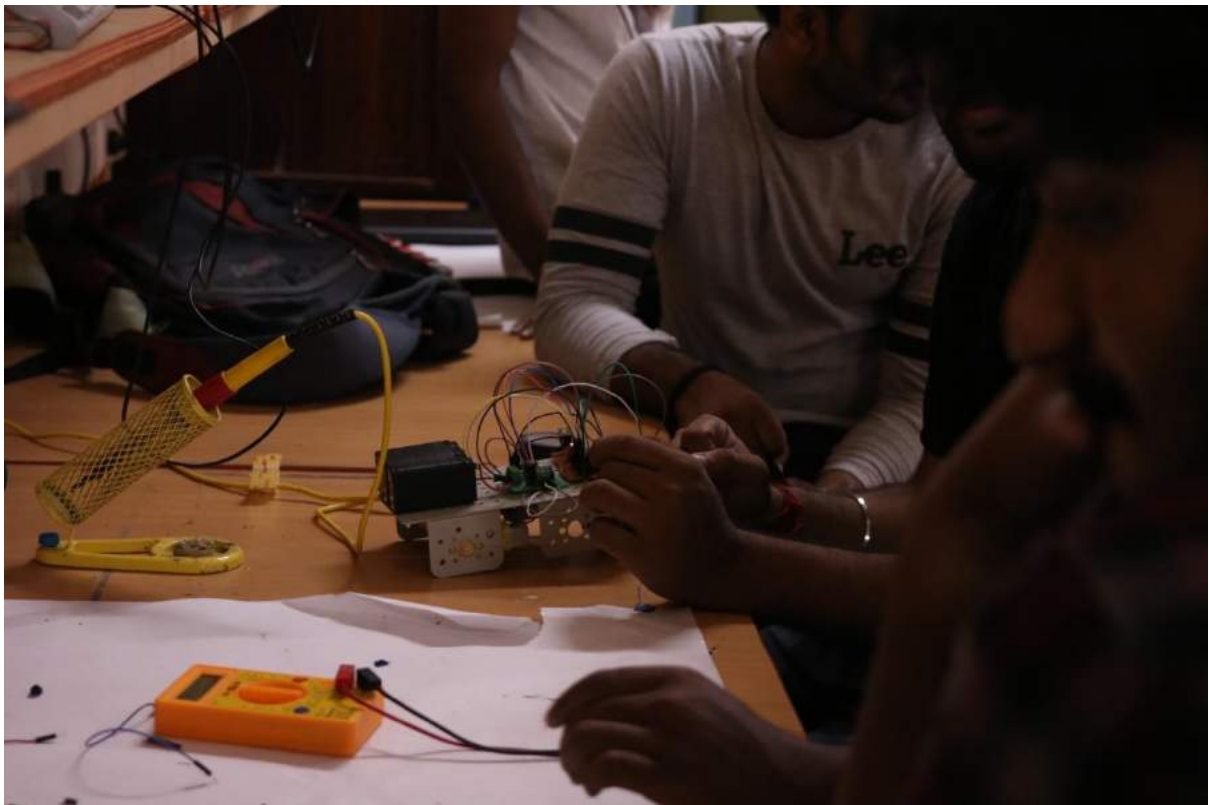
2.RASTRO

Robotics and Automation Society of IEEE MBCET Chapter, in association with STHITHI'18 successfully conducted RASTRO at Mar Baselios College of Engineering and Technology on February 3rd and 4th which focused on the making and utilization of intelligent machines and systems. A total of 24 students participated for the same.

In this world of fast evolving technology and innovation spreading like wildfire across the globe, it's the imaginative thinkers, the pursuers of wild dreams and the passionate inventors that brings about the changes we see around us. BAZINGA, a talk on "Grooming of a successful entrepreneur" by Mr. Gokul V Nath, CEO and founder of one of India's prominent start-up, Demustango Technology Pvt Ltd on 3rd February morning 10:00am to 12:30pm after the inaugural session, shared his experience and warned that being an innovator doesn't make one a successful entrepreneur.

RAS in collaboration with ROBOCET presented LINE SEQUIDOR - a line follower workshop from 1:30pm to 4:30 pm and from 9:00am to 4:30pm, respectively. A line-follower robot as the name suggests is an automated guided vehicle which follows a visual line embedded on the floor or ceiling. It is designed to follow a fixed trajectory or path. This workshop delivered an amazing opportunity where students got to understand the minute details and circuitry of the making of a bot, analyse, design and control a line-follower robot. They also got to compete with other bots.

3.BIOTRONICS

Electronic gadgets have helped to save people's time and it has also shrunk the world to our finger tips. Now, the focus has been shifted to improve our lifestyle and health via these gadgets which are even wearable. Engineering in Medicine and Biology Society, IEEE MBCET Chapter in association with STHITHI 2K18 conducted BIOTRONICS at Mar Baselios College of Engineering and Technology on February 3rd and 4th 2018. A total of 24 students participated for the same.

A fascinating session on "Accessorizing yourselves with wearables" was taken by Mr. Jithin Krishnan, Scientist/Engineer in Sree Chitra Tirunal Institute for Medical Sciences and Technology.

Electronics is an area of inventions and innovations. From downsizing a health tracker and making it compatible with our day- to-day lives and incorporating it in something as simple as a wrist watch. The technology keeps advancing and the use of these gadgets have become both a necessary need and a trending style.

EMB Society of IEEE MBCET chapter in collaboration with NEO GREEN LABS conducted the workshop. The two day workshop also gave the participants a heads up on Android app development using MIT app inventor.

4.DESIDERATUM

SIGHT IEEE MBCET chapter in association with STHITHI 2K18 conducted DESIDERATUM at Mar Baselios College of Engineering and Technology on February 3rd and 4th 2018. A total of 20 students participated for the same.
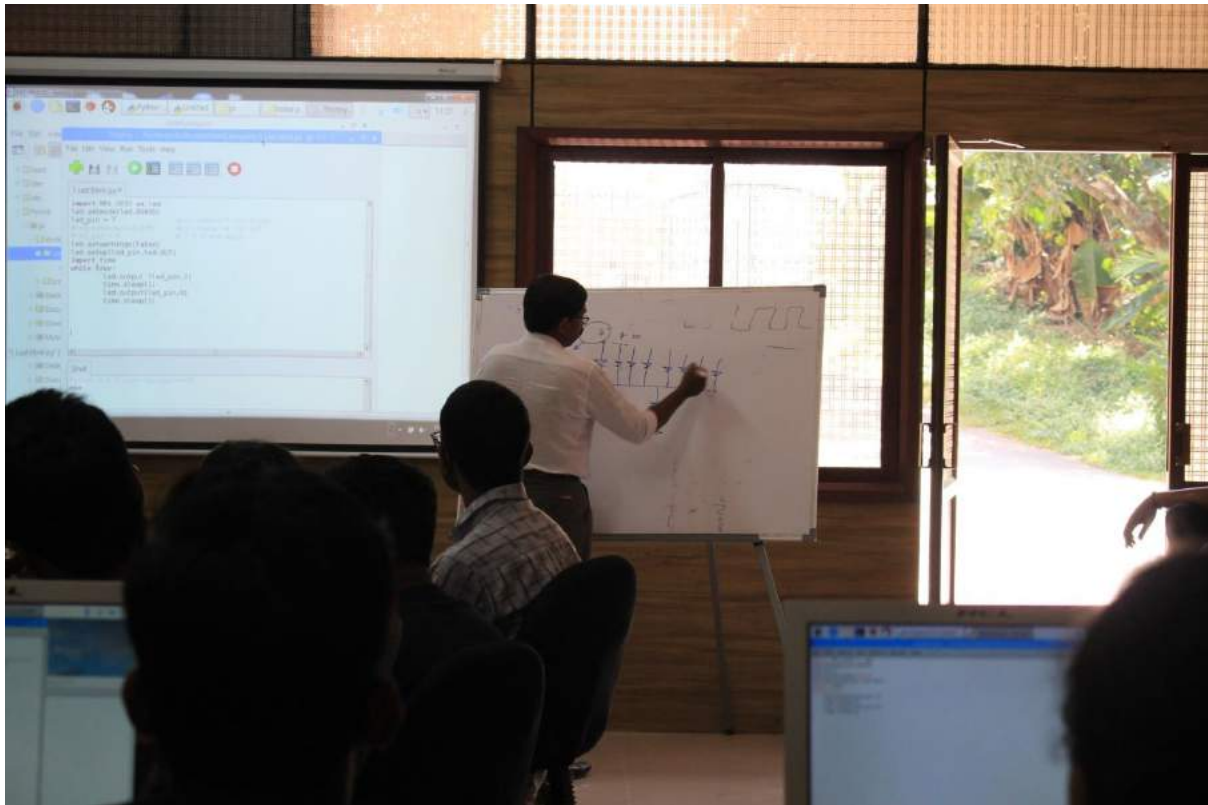
From the times of Benjamin Franklin and William Gilbert's discovery of electricity to the invention of light by Thomas Edison and up until today, we realise and experience the major role that electricity plays in our day-to-day lives. However still, the efficient utilisation of this precious source of energy is ever-so crucial and the need of the hour. A wonderful session on Rural Electrification was taken by Mr. Aneesh Rajendran, Energy Technologist from the Energy Management Cell, Trivandrum.

SIGHT MBCET in association with ISTE MBCET and NSS MBCET units had brought a wonderful opportunity for the participants to learn, invent and touch lives around them, as Mr. Anil Kumar IEDC MBCET elucidates on the basics of Raspberry pi zero and Python

language. By the end of that session, they got prepared to create something exciting with their newly acquired knowledge and got a chance to provide better schooling environment to children of rural schools by implementing their project there.
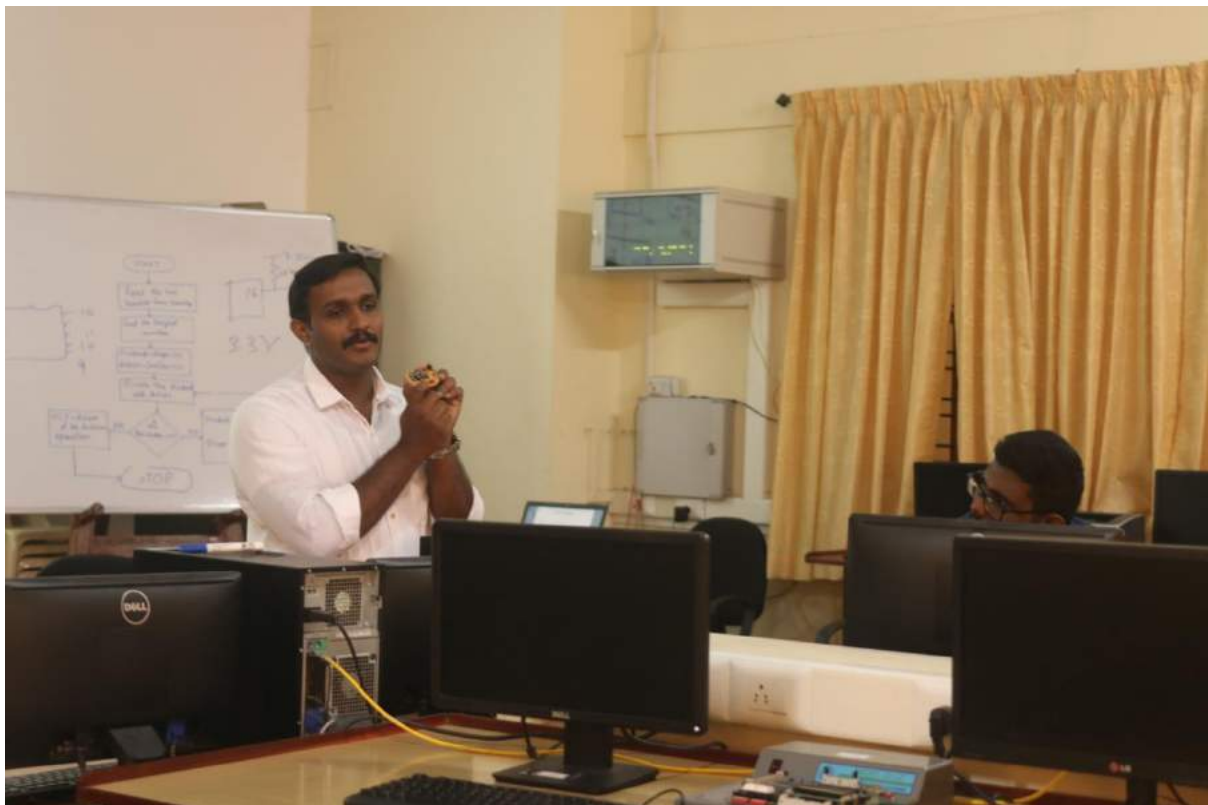
5.DIGERATI

CS Society of IEEE MBCET Chapter, in association with STHITHI'18 conducted DIGERATI at Mar Baselios College of Engineering and Technology on February 3rd and 4th 2018. A total of 24 students participated for the same.

A one day talk on Digital Marketing by Sridev Shyam, Software Engineer and Business Analyst, Offshorent Solutions Pvt given the participants a clear insight on the topic "Technology in Digital Marketing".

In a world where technology moves at a rapid pace, we now have more power than we had in 1990s. AI has been a fascinating concept of science fiction and scientists have made amazing breakthroughs in making AI a reality. One such breakthrough is Deep Learning.Thus it would be no surprise if AI would outperform humans at nearly every cognitive task in the future.

A two day workshop on Artificial Intelligence and Deep learning was done by Savio Victor and Pranoy , co founders of air.ai.,inorder for giving the participants a fairly good glimpse of the fascinating world of Artificial Intelligence.

6.REVEAL

WIE society of IEEE MBCET Chapter, in association with STHITHI'18 conducted REVEAL on 3rd and 4th of February 2018.The events included a talk session and a workshop.A total of 47 students participated for the same.

An inspirational talk session on "Entrepreneurship-Creating the future" was taken by Mrs Rina Vivekanandan, Sr Vice President of ECESIS Care ,at the talk its made very clear to the aspiring women entrepreneurs out there that Entrepreneurship is not just about starting a business and making money and that it is the innovative ideas that help one to become a successful entrepreneur.The event turned out to be a very interacting session.

A two-day workshop on the basics of ethical hacking was done by CEH certified trainers of EC Council.At the workshop the basics of ethical hacking and also guidance to have an insight into KALI LINUX-An OS commonly used for hacking and penetration testing was given.

The event turned out to be a very interesting hands-on session for the hacking enthusiast.

The whole event was foreseen and guided by the branch councillor of MBCET IEEE students branch Mr. Anoop K Johnson. And with the great support of other faculty members, coordinators and volunteers STHITHI'18 turned out to be a great success.