



# IEEE

**2021-2022**

**IEEE SB TKMCE**

IEEE is the world's leading professional association for the advancement of technology through its 400,000 members including 100,000 student members in more than 160 countries. IEEE and its members inspire a global community to innovate for a better tomorrow through highly cited publications, conferences, technology standards, and professional and educational activities. IEEE is the 'trusted voice' for engineering, computing and technology information around the globe. TKM College of Engineering has stood as a symbol of excellence in engineering education for the past five decades and had the last six years brimming with IEEE Student Branch activities of all kinds ranging from technical to managerial adventure to entertainment. IEEE SB TKMCE was formed on 22nd November 1986. It was the largest SB with more than 115 new members for the year 2013. We won the Region 10 Exemplary Student Branch Award for the third-best SB in the Asia-Pacific Region. We celebrated the Silver Jubilee of establishment in the year 2010. We have an active PES, RAS, CS, SPS, IES, CASS and IAS chapters, WIE Affinity Group, and a Special Interest Group SIGHT.

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## IEEE SB TKMCE ACTIVITY REPORT

### 1. ENCAMP'21

ENCAMP 2021 is a virtual camp organized by IEEE SB TKMCE exclusively for the first years to impart various skill sets to our students from documentation and communication to poster designing and video editing. The camp was subdivided into 2 phases wherein the students were taught various skill sets in the first phase and required to implement these skill sets in the second phase.

A promotional banner for ENCAMP 2021. The background is a dark blue night scene with a person standing on a hill, looking up at a starry sky. A large, glowing 'C' logo with a rocket inside it is in the center, with the word 'encamp' below it. The banner includes logos for IEEE SB TKMCE and IEEE, a quote about technology and campfire, event dates and platform, tracks for two phases, workshop topics, a registration link, and contact numbers for Dilber and Fayrooz.

 **IEEE SB TKMCE**  **IEEE**  
Advancing Technology  
for Humanity

*Technology is the campfire around which we tell our stories.*



**Feb 05-20 | Platform : Online**

**Tracks - Feb 05-07(Phase-1) | Feb 12-20(Phase-2)**  
Event Organization | Documentation | Video Editing | Poster Designing | Communication | Web Development

**Workshops - Feb 08-09**  
UI/UX | Proteus with Arduino | Python with Version Control

**Register : [forms.gle/QeYgDvecRPk6sLRf6](https://forms.gle/QeYgDvecRPk6sLRf6)**

Dilber : 9446452378 Fayrooz : 9074332873

## 1.1.PHASE I

### 1.1.1.WEB DESIGNING TRACK

**Date:** 5th - 7th Feb 2021

**Category:** Technical

**No. Of attendees:** 36

**No.of IEEE members who attended the session:** 34

**No.of non-IEEE members who attended the session:** 2

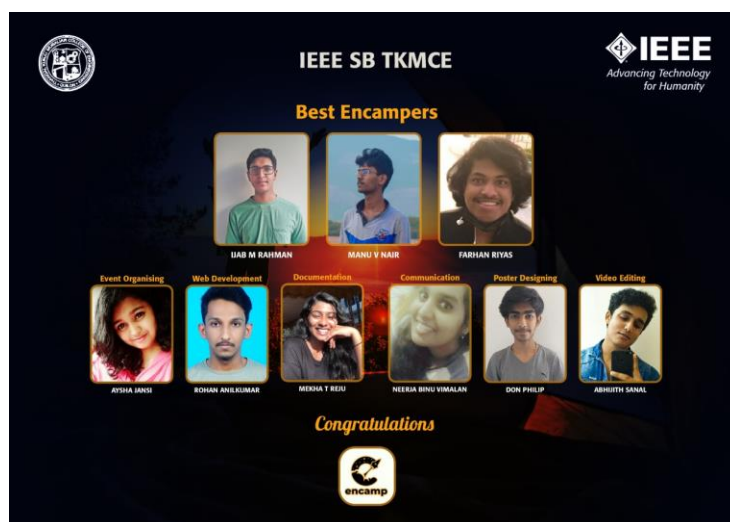
IEEE ENCAMP web track was organized for the students of TKM College of Engineering. The main objective of the event was to give a detailed idea about the basics of front-end development using HTML and CSS.

It was a self-learning event in which the participants were given access to the study materials of freeCodeCamp. The whole course was divided into modules and covered according to the schedule. The doubts were clarified by the mentors either personally or in the regular milestone check conducted online via Google Meet. The participants were given assignments for checking their understandability from the course. They were also assessed through a quiz and a project on CodePen. The event was made interactive by encouraging students to clarify doubts and by sharing their experiences.

Participants were marked based on their project submission, quizzes, and their activeness in the whole event.

The top scorers were:

Farhan Riyas	ECE
Devi Binoy	CS
Ashwin Binu Abraham	CS
Ann Mary Saji	CS
Akshay Satheesh	ECE



Rohan Anil Kumar	CS
Fathima Nooha Kottangodan	CS

At the end of the session, participants were confident enough to build a basic website.

#### *1.1.2.VIDEO EDITING TRACK*

**Date:** 5th, 6th, 7th February 2021

**Category:** Non-technical

**No.of attendees :** 32

**IEEE members:** 23

**Non-IEEE members:** 9

The video editing track began with interactive training sessions where the basics of video editing were explained by providing materials to build the fundamentals for the participants. During the first live session on 5th February, the students were introduced to the installation process. Also, they were given various problems to solve and strengthen the concept. A task was held after the training session after which, their doubts were all clarified regarding the task-organized, in a live session.

Students were further exposed to advanced concepts of video editing. The second task was assigned where students practiced editing good quality videos and their performance during the tasks was recorded on a scoreboard. Task submission and other activities winded up by 9th February.

Phase-2 of the Tracks requires students who attended the video editing track to create a promo video for a set of events listed by the members of the event coordinator track.

All participants had actively participated and amongst them, a few top scorers were

Farhan Riyas S1 CS

Abhijith Sanal S1 EEE

KB Sreehari Nampoothiri S3 Mechanical

#### *1.1.3.POSTER DESIGNING TRACK*

**Date:**5th-7th Feb 2021

**Category:** Technical

**No. of attendees:**32

IEEE members: 29

Non-IEEE members: 3

The poster designing track was a perfect platform that helped to gain the skills that are in high demand in the graphic designing industry. Phase one of the track was conducted from 5th-7th

February 2021. During phase one, students were asked to install adobe photoshop and respective links for installation were shared in the WhatsApp group. On February 5th a live session was arranged through google meet to introduce the software and its tools. Also, video tutorials, lectures, and other resources were provided through the WhatsApp group. Based on the resources shared, students were given tasks. They were asked to recreate any two posters from the set of posters shared in the group. Students actively participated and uploaded the posters in the google form. A session through Gmeet was then conducted on 7th February to clear the doubts and to give feedback.

The track was mentored by Nidhin BM and Sufiyan Yahiya. Nidhin is a skilled graphic designer and the design lead of IEEE SB TKMCE. He has done design work for many events in the college. Sufiyan Yahia is a graphic designer, video editor, and UI/UX developer. He is the co-founder of 'Designova'-a startup for graphic designing and branding. He is also the Design Head and Chief Marketing Officer of IEDC TKMCE.

A point system was there to find out the best camper where the criteria include active participation, task completion, and a well-planned poster. Based on the point system Manu V Nair of first yr EC is selected as design lead for phase two of the track.

#### *1.1.4.DOCUMENTATION TRACK*

**Date:**6th-7th Feb 2021

**Category:** Non-Technical

**Platform :** Google Meet

**No. of attendees:**

**IEEE : 8**

**NON-IEEE: 2**

Documentation is about communicating through various media and finding the best way to convey and preserve an idea, event, or process. As a part of ENCAMP 2021, IEEE SB TKMCE in collaboration with MUNSOC TKMCE conducted a documentation track exclusively for 1<sup>st</sup> year students. This was aimed at improving their writing and documentation skills to mold them to frame quality and professional write-up-s. The session was handled by Anu Francis.

The first day was an ice-breaking session. The attendees had an interaction via WhatsApp. They interacted, learned about each other and about the topics to be discussed in the upcoming days. Day 2 started with an introductory session. The main aim of the session was to prove that anyone can write. An activity was conducted in which the attendees had to create a story by connecting different elements and prompts which were given to them. The participation of the attendees in the activity was indeed remarkable. The second session of day two mainly involved polishing the writing skills of the attendees. They were given tips and strategies on how they can approach writing. They were given steps to increase their writing skills. One of the main topics discussed was tips for improving language and vocabulary. The session went on for 40 mins. At the end of the session, the attendees were given an activity on 'Creative writing', which they had to submit during the upcoming session.



Day 3 started with an interesting activity. The attendees were given an initial line out of which they were to create a story. All the attendees actively participated in weaving out a dramatic suspense thriller. The activity was conducted for a time duration of 1 hour.

The second session of day three was focused on write-ups. The tips and strategies to frame good and professional write-ups were taught to the attendees. An activity was conducted in which the participants had to re-phrase a poem in their creative way. A group activity was conducted where each group had to submit a well-framed write-up. At the end of the session, the participants had to submit a write-up on either of the two topics given to them. All the attendees showed excellent enthusiasm and submitted the given task on time.

#### *1.1.5.COMMUNICATION TRACK*

**Date:**6th-7th Feb 2021

**Category:** Non-Technical

**No. of attendees:**10

IEEE : 8

NON-IEEE:2

**Platform :** Google Meet

As a part of ENCAMP 2021, IEEE SB TKMCE in collaboration with MUNSOC TKMCE conducted a communication track exclusively for first year students. The track primarily aimed at improving their communication and presentation skills and with that molding them to host events in the future. The sessions were handled by Najma Nizar (director of IP & documentation wing) and Gayathri H (director of training) of MUNSOC TKMCE.

The first day of the communication track started with a brief introduction to the program and an ice-breaking activity. Some images were presented in the meet and the students were asked to speak about them. The session concluded within 20 minutes.

In the second communication session held by Gayathri H, the topic addressed was fear of public speaking. Attendees asked themselves why public speaking is important to them and how they can overcome the fear. At the end of which students were paired and given the task of speaking in only one language.

There are many people out there with excellent expertise in delivering their ideas effectively but when it comes to public speaking, there occurs a shortfall. This can be due to a lack of proper guidance and support. The session by Najma was very helpful to the attendees as they got to know about how to organize and structure their speech and important points to be noted while preparing it. Some tasks were assigned to the attendees for the following day and the session concluded by 9.20 pm.

Day 2 started with Najma and Gayathri collecting feedback from attendees. The attendees gave excellent feedback about the conduct of the sessions. The topic addressed was non-verbal

communication. The session was conducted by Najma, who masterfully explained the use of non-verbal communication and its importance. The students were given the task of attempting a line with different emotions. Since the session ended before time, another marketing activity was conducted for the attendees. Najma gave additional tips about pauses- fillers, delivering an interesting speech, etc at the end.

The session started with the attendees in pairs delivering a two-minute speech on a topic of their interest. They were evaluated and given proper corrections for improvement. The active involvement of the participants made the initiative fruitful. Healthy feedback was gathered from the group and phase-1 of the communication track of ENCAMP came to an end.

#### *1.1.6.EVENT ORGANIZATION TRACK*

**Date:** 5th - 7th Feb 2021

**Category:** Managerial

**No. Of attendees:**11

**No.of IEEE members who attended the session:** 10

**No.of non-IEEE members who attended the session:** 1

The main objective of the IEEE ENCAMP event track was to make the students capable of organizing an event by allowing them to conduct events.

The event consisted of five live sessions spanning over 3 days. The first one was an introductory session in which the rules and goals of the event were explained to the students. In the next two sessions, the students were given a detailed idea of event planning and coordination, important things to keep in mind while conducting an event, etc. At the end of the second session, the students were asked to come up with a plan and schedule to conduct a quiz competition, this task was completed by the students and they presented their ideas in the next session. The last session was an interactive talk by Dr Bijuna Kunju, chair of IA/IE/PELS joint chapter Kerala Section and advisor of IEEE PES/IES SBC TKMCE. She shared her experience of volunteering with the students.

The students were ranked based on their active participation in the discussions and the completion of the given tasks. 8 active students were selected to phase 2 of ENCAMP. The topper in the point table was selected as the lead coordinator.

#### **1.2.PHASE II**

The students who participated actively in Phase 1 of ENCAMP 2.0 were selected to host the second phase of the camp where they coordinated various events by utilizing the skillsets gained from the camp.

##### **1.2.1.TECTONIC – TALK ON AUGMENTED AND VIRTUAL REALITY**

**Date:** 21 February 2021

**Time:** 6pm to 8pm  
**Venue:** Google meet  
**Category:** Technical

IEEE SB TKMCE organized TechTonic - A technical talk on Augmented and virtual reality as a part of ENCAMP 2021 on February 21, 2021 (Sunday). The event was held online through Google Meet. The event had 41 participants. The event started at 6 pm. The introductory speech was given by Aiswarya PK. The session was handled by Aswin PS and Abhishek MT, both are TKMCE Alumni (EEE, Batch of 2019).

The speakers gave an introduction to the latest advancements in AR and VR and gave an outline regarding their final year project which was based on AR and VR. There was an interactive session where participants asked questions and received answers from the speakers. The event concluded at 8 pm with the vote of thanks delivered by Aiswarya PK.

### 1.2.2.CODE JAM

**Date** : 21 Feb 2021  
**Time** : 4pm - 6pm  
**Category:** Competitive  
**Platform** : HackerRank  
**Total registrations** : 24

'CODE-JAM' - a coding contest was conducted as part of IEEE ENCAMP phase II. It was conducted in 2 rounds through HackerRank. All participants were instructed to create an account in HackerRank before the event. Out of the total 24 registrations, 21 participated in round 1 out of which 5 were selected for round 2. A WhatsApp group was created for all the participants through which the instructions were conveyed. Round 1 consisted of 5 questions which were supposed to be done in 30 minutes. Round 2 consisted of a single question for 30 minutes. The participants were given the freedom to use the programming language of their choice. The questions for the contest were set by Nooha (web developer) and she was the judge for the same. The success rate for round 1 was 70.83 and for round 2 was 100. Judgment was done based on the time taken by each participant to complete the code. A cash prize of Rs 500 was awarded to the winner.

#### Winners

First: Risal Rasheed  
Second: Praveen Krishna  
Third: Asher Mathews



### 1.2.3.JAM

**Date:** 22 February 2021

**Time:** 4 pm to 6 pm

**Venue:** Google Meet

**Category:** Competitive

IEEE SB TKMCE organized In a Minute - JAM for all the students as a part of ENCAMP 2021 on 22 February 2021 (Monday). The event was held online through Google Meet. A list of topics was made and the participants had to select a number and the corresponding topic was assigned to them. Afsal gave the introductory speech and the event started at 4 pm. The participants had to talk for a minute based on their topic. The event was judged by Gayathri and Anu. The event concluded at 6 pm. The winners were announced after a few hours. A cash prize of Rs. 500 was distributed between the first and second prize winners and the participants were given certificates.

Winner - Liyana Hashir (CE)

1st Runner-up - Devika Sujith (CSE)

2nd Runner-up - Maria George (ECE)

- C J Adithyan (ECE)



#### 1.2.4.NAMASTE INDIA - ELOCUTION

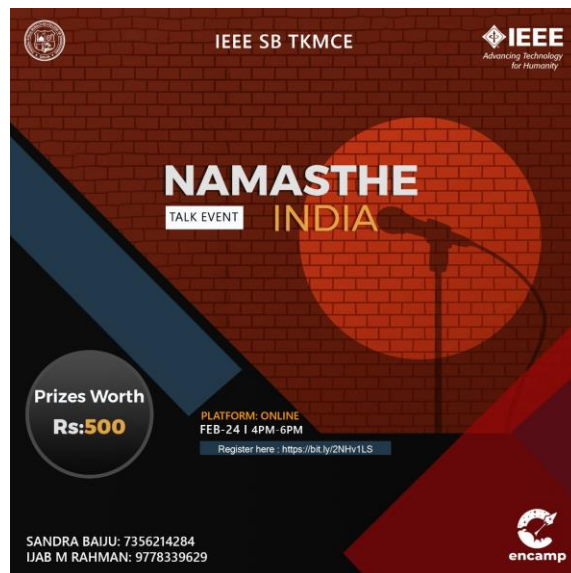
**Date:** 24 Feb 2021

**Time:** 4 pm to 6 pm

**Venue:** Google meet

**Category:** Competitive

IEEE SB TKMCE conducted Namasthe India, an elocution competition as a part of ENCAMP 2021 on 24 February 2021, Wednesday. The event was conducted online through google meet. The participants were expected to talk about a given topic for 1-3 minutes, only in Malayalam. All participants were given a bonus of 100 points before the event, from which two marks were to be deducted every time they used a word in English. Besides, a judging panel of two was also present for evaluation. Swathy and Abhinand from the third year were enrolled as judges. The event started with a small introduction by Sandra. The order for elocution was selected by spinning a wheel in which the names of participants were present. The event was coordinated by Ijab and Sandra. After the competition, there was also a small feedback session. The event concluded at 6 pm. The winners were announced after some time and a cash prize of Rs. 500 was distributed among the winners and the participants were given certificates.



Winner: Abdul Mujeeb Rahan (Chem)

First Runner up Jayalakshmi K. S (CSE)

Second Runner up: Ardra and Noel Mathew Varghese (ECE)

#### 1.2.5.ONLINE TREASURE HUNT- SNAPE'S SEARCH

**Date:** 24th February 2021

**Time:** 6:00pm-8:00pm

**Platform:** Google meet

**Category:**Non-technical

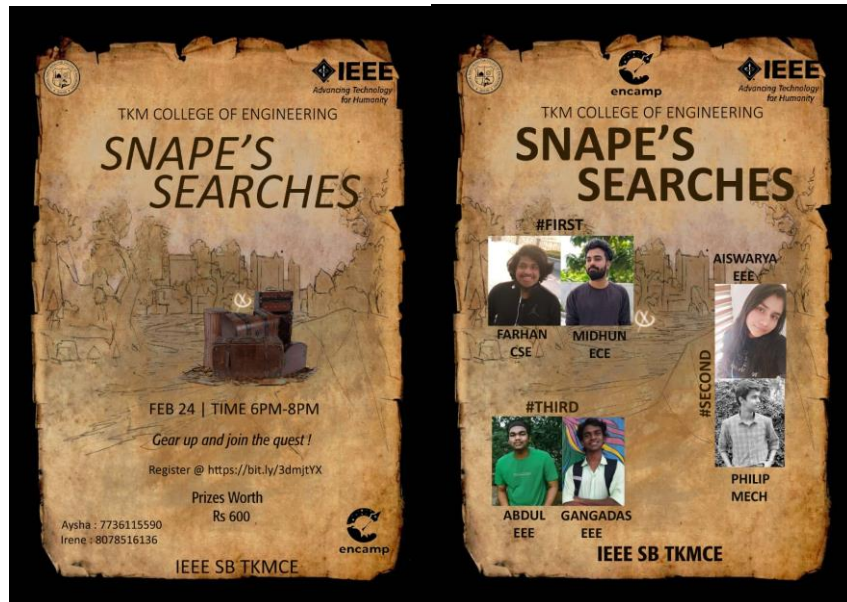
IEEE SB TKMCE conducted an online treasure hunt- Snape's Searches on February 24th as a part of ENCAMP 2021. The hunt was primarily based on movies. Out of 21 participants, 12 were filtered out after the first level of the hunt which was carried out as a time-bound quiz through google forms. For the subsequent levels, participants were sorted into 6 groups having 2 participants each. Levels 2, 3, and 4 were conducted via google meet. Level 2 was based on popular Malayalam movie songs and Level 3 was based on Hollywood movies. Level 4 had an interesting task, which involved grabbing clues from Instagram and the final submission was done through

WhatsApp. The event saw the active participation of students from various branches. A cash prize of Rs.600 will be divided amongst the winning team members.

Winner: Farhan Riyas and Midhun GG

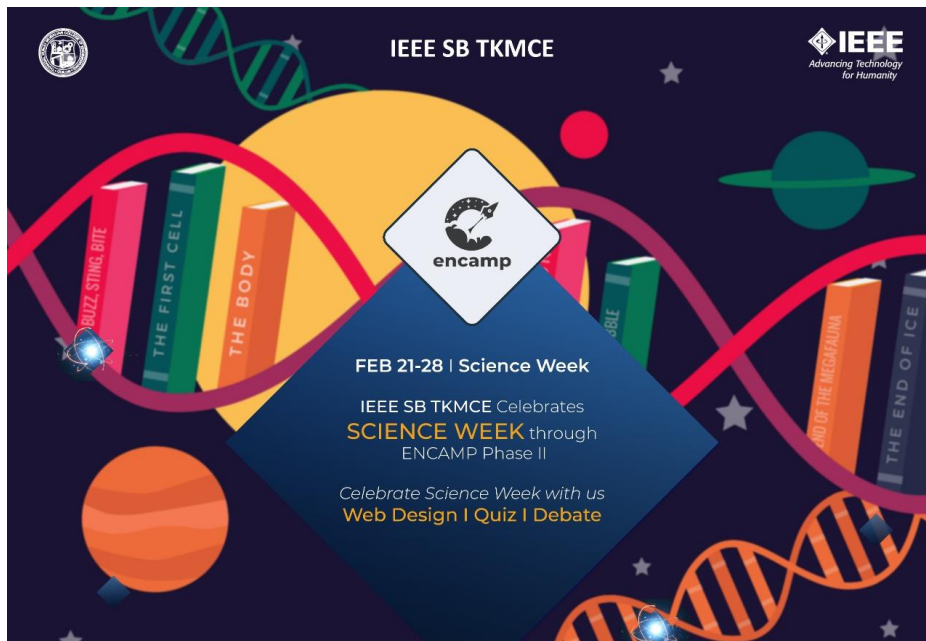
First runner up Aiswarya Poovathankandy and Philip Eldho Varghese.

Second runner up: Gangadas and Abdul Ahad



## SCIENCE WEEK CELEBRATIONS

As a part of science week celebrations, IEEE SB TKMCE conducted various events from website design contests to quizzes and debates. It was held as a part of Phase II of ENCAMP'21. The goal of the web design contest was to test the web designing skills of our student branch members as a training session for the same was conducted during ENCAMP. The goal of the debate was to test the communication skills of our students and promote the exchange of ideas in a formal setting and the objective behind conducting a quiz competition was to test the aptitude of our students in various domains of science and to enlighten them about topics they are unaware of.



#### 1.2.6.DIGIWEAVE - WEB DESIGNING COMPETITION

**Date:** 22-24 February 2021

**Venue:** Google meet

**Category:** Competitive

IEEE SB TKMCE conducted Digiweave, a web designing competition as part of IEEE ENCAMP phase II. The topics were provided to the participants through WhatsApp and they were first required to create the website's prototype. Prototypes created by the participants were displayed using google meet. The remaining time was used for the implementation of the website. The participants were constantly evaluated by the judges.

First prize: Fathima Nooha (CSE)

Second prize: Sreehari Rajan (CSE)

Third prize: Farhan Riyas, (CSE)





#### 1.2.7.LA PRUEBA - QUIZ

**Date:** 22 February 2021

**Time:** 6pm - 8pm

**Venue:** Google form, google meet

**Category:** Competitive

IEEE SB TKMCE organized La Prueba, a quiz competition as part of IEEE ENCAMP. The competition consisted of two rounds. The first round was conducted through a Google form link that was circulated among the participants at 6 pm. Participants had to answer 15 questions and were allotted 20 minutes. This round concluded at 6:30 pm.

The second round was conducted after filtering the participants. A total of nine participants were selected for the next round. There were 10 questions and participants were provided with a code for answering their questions in the google meet.

The session was concluded with the advice of TQC Club members, who were of great help in organizing the quiz section and IEEE coordinators. The winner was awarded a cash prize of Rs.500.

Winner: Philip Eldo Varghese

First runner up Akshay K





### 1.2.8. WAR OF WORDS - DEBATE

**Date:** 23 February 2021

**Time:** 6pm - 8pm

**Venue:** Google meet

**Category:** Competitive

**No. of participants:** 16

**No. of teams:** 4

IEEE SB TKMCE conducted the War of Words-a debate competition as a part of ENCAMP 2021. The Topic of the event was "Colonize Mars or Save Earth". Though it had 2 rounds, the first round was held separately for every two groups. Winners of the first round were selected for the final round. The event was controlled throughout by Gouri and Steffy. Each round was divided into three parts and concluded by questions from the judging panel which included Fida Fathima, Adarsh, and Mishal. The session was interactive and enthusiastic. Winners were given a cash prize of Rs.1,200. All the participants were given certificates.

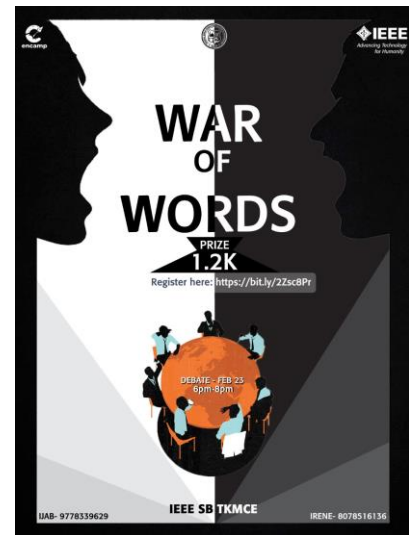
**Winners- Group 3**

Risal Rasheed(CS)

Anandu P(CS)

Sreejith(CS)

Arjun M S(CS)



## 2. AGM

**Date:** 12th March 2021, 7:00 pm

**Category:** Managerial

**Platform:** Zoom

**No. Of attendees:** 60

IEEE SB TKMCE organized an Annual General Body Meeting (AGM) to swear in the Executive Committee Members for the year 2021 and bid farewell to those who have served the student body with utmost sincerity and dedication. All the activities conducted during “the virtual year of 2020” were briefed.

The program under the presidency of Dr Sabeena Beevi began with the code of ethics(Loop video). It commenced with a welcome address given by Fayrooz Shahana Noufal Koya and ended with the Vote of Thanks by Chairperson Dilber P Shakir. The Annual Report and the Financial Report of 2020 were presented by Arundhathy Pradeep and Rahul Ramesh respectively. The highlights of the event included the installation of the new committee, Awarding ceremony for outstanding volunteers, and the best campers and felicitation by teachers. The members were congratulated for their sheer dedication and commitment to the activities of the SB.

## 3. TECHNOLOGIES IN-DEMAND – TALK SESSION

**Date:** 13th February 2021

**Time:** 7pm-8pm

**Category:** Technical, Talk session

**Online Platform:** Zoom

**No. of participants:** 60

IEEE SB TKMCE in association with the Department of EEE conducted an expert talk with the target audience as students pursuing final and pre-final years of B Tech, M Tech, MCA and their Faculty members. The session was handled by Mr Balagopal P K, an Electrical Engineer with over 30 years of industry experience in research, product development and business leadership in domains such as Energy, Renewables, Nuclear and Industrial Automation and the current Vice President (Industrial IoT products) at Gadgeon Systems based at Kochi. Through this session, the students were able to familiarize themselves with skill sets currently in great demand and faculty members upgraded their Industry based knowledge through this session as well. The interactive session was fascinating as the questions came from a mix of both faculty and students. We had alumni joining us from far-flung places like Australia as well. A lot of queries regarding the major technologies and skillsets we need to acquire to perform well in a workplace were clearly explained to the students and faculty as well.

#### 4. MERAKI – Digital Painting Competition

**Date:** 1st March 2021 – 7th March 2021

**Platform:** Instagram

**Category:** Non-technical, Competitive

**No: of participants:** 5 (Non-IEEE participants)

To commemorate this year's Women's Day, IEEE WIE AG TKMCE conducted Meraki, a digital painting competition on the topic 'Women at the forefront of the fight against COVID-19', from 1st March 2021 to 7th March 2021.



All the entries were posted on the official Instagram page of IEEE SB TKMCE. The participants were judged based on creativity, originality, quality of their work, understanding of the theme and likes obtained for their work posted on the Instagram page of IEEE SB TKMCE. The evaluation was done by Ms Arya Mohan, an alumnus of TKMCE from the Department of Architecture.

Christeena Thomas (4th-year Architecture) and Aswin P (3rd year Civil) bagged the first and second positions respectively.

#### 5. HERA – Women's Day Celebration (WIE)

**Date:** 9th March 2021

**Time:** 3pm

**Category:** Motivational talk session, Hybrid event

**Venue:** Auditorium

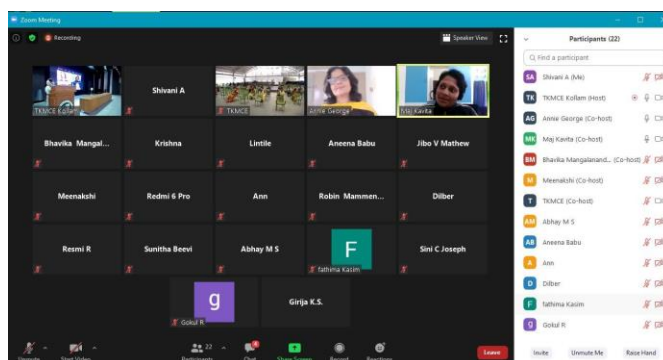
**Online Platform:** Zoom

**No: of participants:** 84

**No: of IEEE participants:** 35

**No: of non-IEEE participants:** 49

IEEE WIE AG TKMCE in association with Women Cell TKMCE organized HERA, women's day celebrations exclusively for first years. It was a hybrid event with our guests joining us via Zoom and the screen being shared in the college auditorium. The event began with an introduction by the MC of the day, Fida Fathima about Women's day. Prof. Sunitha Beevi K, Convenor of Women's Cell TKMCE gave the welcome speech. It was followed by the presidential address by Prof. Shahul Hameed, who shared his memorable experiences and pointed out the influence of his mother in his life.



The first talk was by Ms Annie George who works as a development professional in disaster management. Through her valuable words, she inspired the unbeatable women within us. The next session was handled by Maj. Kavita Nair P, former major of Pangode Military station and an alumnus of TKMCE. Her speech was filled with determination and enthusiasm, which were the two key factors that helped her to succeed in her endeavours. The last talk was by Ms Bhavika Mangalanandan IFS, who is a 2015 pass out from TKM College of Engineering. Her remarkable journey also ignited the spirit of excellence within our minds.

Prof. Reshna Ayoob, Staff in charge of WiE AG TKMCE delivered the vote of thanks. All the three speakers of the day were presented with a virtual memento by IEEE and this brought the formal session to a close.

The informal session consisted of programs by the Music Club of TKMCE where the singers and performers each showcased their talents.

## 6. ENERGETTE

**Date:** 29-30 March 2021

**Category :** Educational

**Platform :** Google Forms, WhatsApp

**No: of participants:** 60

Power and Energy Society IEEE SB TKMCE organized an online quiz competition on the topic of Power and Clean Energy as a part of PES Day Celebrations 2021. The quiz held on 29<sup>th</sup> and 30<sup>th</sup> March had participants from different colleges.

The quiz was organized by our PES day Ambassadors Gopi Krishna V(S3) and Gokul R ( S1). The quiz consisted of two phases. The participants that make it through the 1<sup>st</sup> phase qualify for the second phase. Phase one consisted of 20 multiple choice questions and phase 2 had tricky crosswords and MCQs. There were 114 registrations in which around 60 students actively participated. Guidelines and Instructions were provided through WhatsApp.



The first prize went to Anagha k Sasidharan (Government College of Engineering, Kannur), the second prize to Sreeparvathy (RIT Kottayam), and the third to Fathima Nooha Kottangodan (TKM College of Engineering).

## 7. LETSCODE CODING SERIES (WIE)

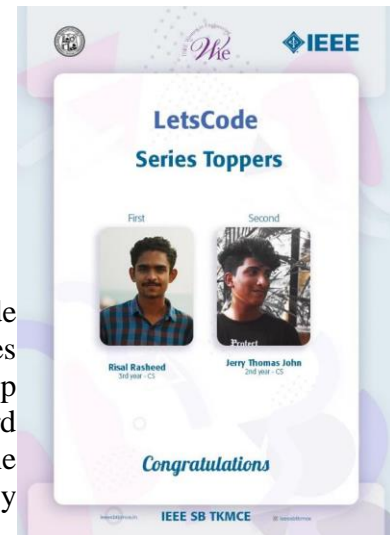
**Duration:** November 2020 to March 2021

**Platform:** HackerRank

**Category:** Technical, Competitive

**No: of participants:** 61

**IEEE WIE AG TKMCE** organized the first season of the LetsCode coding series from November 2020 to March 2021. The series consisted of four monthly contests on various topics and the top scorers of each month were awarded certificates. Risal Rasheed (3rd year CSE) and Jerry Thomas John (2nd year CSE) emerged as the series toppers with first and second positions respectively and they were awarded cash prize worth Rs.1300/-.



### 7.1 LETS CODE MARCH (WIE)

**Date:** 3rd April 2021

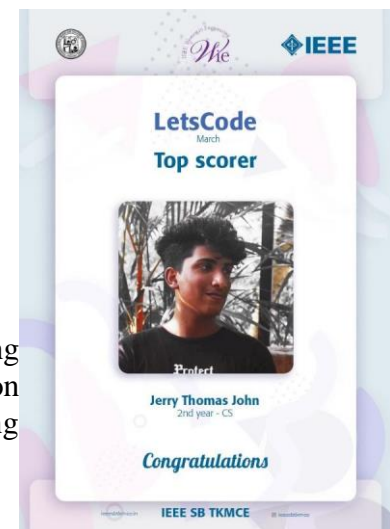
**Time:** 7PM - 8:30PM

**Platform:** HackerRank

**Category:** Technical

**No: of Participants:** 7

**IEEE WIE AG TKMCE** organized LetsCode March, a coding contest on the 3rd April 2021 at 7 PM. The contest was conducted on HackerRank. Around 30 students participated in the contest among which Jerry Thomas John (2nd year CSE) emerged as the topper.





## 8 . MAKING FIRST CONTACT - HOW TO CRACK GOOGLE SUMMER OF CODE - TALK (CS)

**Date:** 10 April 2021

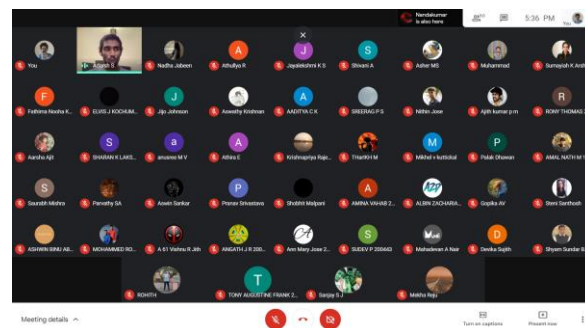
**Category:** Non- technical

**No. Of attendees:** 87

**No. of IEEE Members:** 50

**No. of non-IEEE Members:** 37

An Interesting interactive session with Adarsh S, a GSoC participant in 2018 who is now working as CTO in alert.ai shared his experience and tips with young aspiring engineers. The event had participants from all over India. The event also had a Q&A section where participants asked questions with Adarsh so they could get a clear view on how to crack GSoC.



## 9. INTRODUCTION TO MONGODB (IAS)

**-Webinar session by Nithin Jose**

**Date:** 23rd April 2021  
**Time:** 4.00-5.00pm  
**Platform:** Google meet  
**Category:** Technical  
**No. of participants:** 48

**IEEE IAS SBC TKMCE** in association with **IEI SB TKMCE**, on the 23<sup>rd</sup> of April 2021 organized an interactive session on "**Introduction to MongoDB** " handled by **Nithin Jose** (MongoDB Node js developer). The event was held online through Google meet and had a total of 42 participants.

The speaker raised the importance of databases in the modern world and explained the advantages of MongoDB over MySQL. The scalability, flexibility, performance of MongoDB over MySQL was well conveyed.

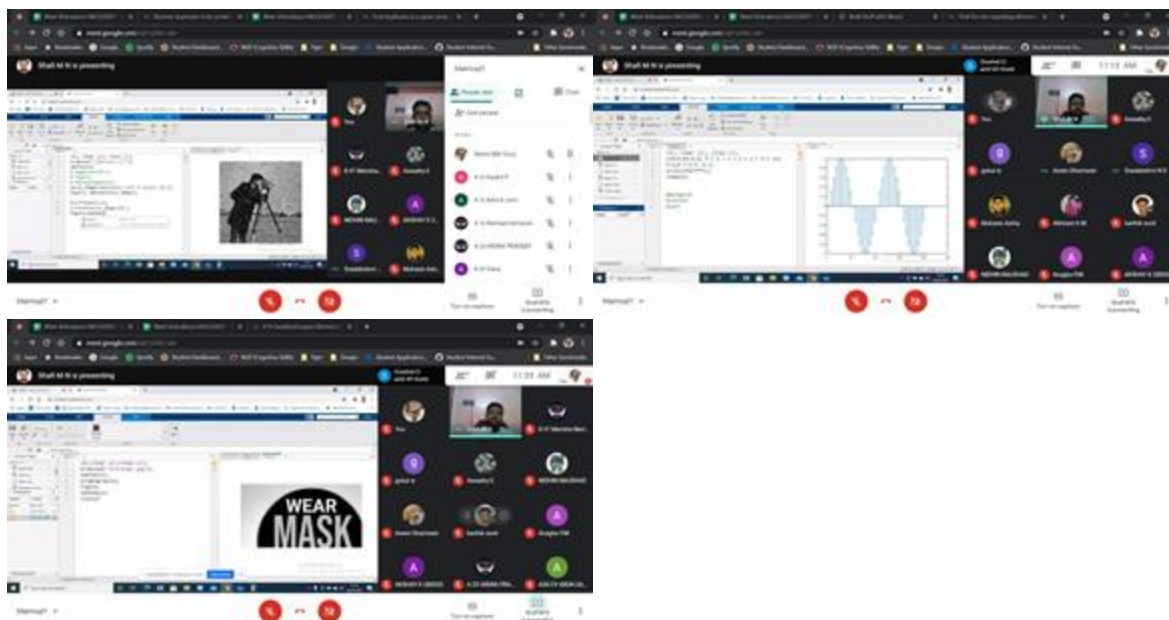
Then we had a glance through some of the well-known SQL and noSQL databases. The discussion on the history of Mongo DB's launch and its extensive usage in platforms like Aadhar added a bit of curiosity to the event. There was also a demonstration of database creation where features of MongoDB were well illustrated.

An interactive session was also held towards the end of the session where the speaker answered the queries from participants. The introductory speech and vote of thanks for the event were delivered by Nadha Jabeen. Altogether the session was intriguing and informative and developed really good feedback from its participants.

#### 10. MATRICA'21 (SPS)

**Date:** 24th April 2021  
**Category:** Technical workshop  
**No. of attendees:** 61

**Matrica'21** is a MATLAB workshop conducted by the SPS IEEE SB TKMCE. The session was handled by **Shafi. M.N**, Asst. Prof of ECE department of TKMCE. The workshop commenced with a welcome speech by Prof. Reshna.S.Ayoob, SPS Kerala Section Vice-Chair. As Shafi sir took over the session, he began with the basics of MATLAB and familiarized the tools with the students. He proceeded to the various basic image processing techniques that could be accessed using this platform. A hands-on project was also displayed and explained to the students. So towards the end of the session, he showed a simple project in the field of image processing. The session concluded with a talk from Dr Anzar SM, Head of SPS IEEE SB TKMCE. It was followed by the Vote of Thanks by Anagha PM, SPS Chairperson.



## 11. WEBINAR ON UAV(RAS)

**Date:** 16th May 2021

**Time:** 11 am - 1 pm

**Category:** Technical

**Platform:** Google Meet

**No. of attendees:**

**IEEE members:** 34

**Non-IEEE members:** 48

IEEE SB TKMCE RAS organized a UAV workshop for all the students of the college. The introductory speech was delivered by Alina Joy and she cordially invited Mr Thomas Kuruvilla. He was a TKMCE alumnus and is currently working as a robotics engineer at AMSL.

The session had an average of 82 registrations and 40 participants. The session covered the basics of UAV and UAS starting with the basic flight components. The speaker shared two of his recent builds with the students. He explained the different parts and their basic mechanics. He also introduced a simulation environment for aerial robotics through Gazebo. He answered the questions raised by the students at the end of the session. Pranav Muralidharan delivered the vote of thanks and Nidhin presented the memento virtually as a token of appreciation.



## 12. APP INVENTOR (SIG, IEDC & IAS)

**Date:** 30 May 2021

**Number of participants:** 200

**Platform:** Microsoft Teams

**Category:** Technical



A workshop on App Inventor was organized by the Special Interest Group (SIG), an initiative by IEEE Industry Applications Society (IAS) and IEDC IR CELL, on 30th May 2021, Sunday.

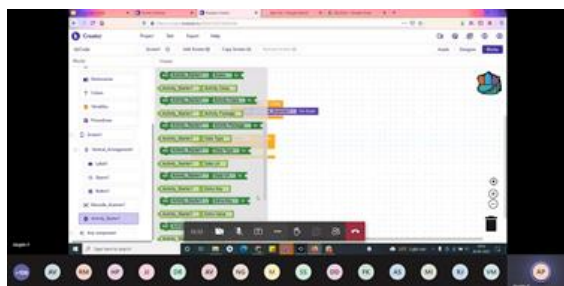
The workshop aimed at introducing a method of development of applications without using coding skills. The session was handled by Mr Abhijith Pradeep and Mr Krishnadas M.

The event unfolded at 9:30 am with a warm welcome note delivered by Mr Thameem. K. It was a full-day program, which was divided into forenoon and afternoon sessions respectively.

The first session of the day mainly focused on the introduction to Kodular, an App Inventor based on blocks. A detailed overview of its functioning and operation was thoroughly explained. The participants were asked to do the same along with the tutors so that they could follow concepts more thoroughly. The forenoon session extended till 12:30 pm.

The afternoon session commenced at 2:00 pm. This session involved discussions and practicing projects on different concepts which helped in exploring the inner concepts of Kodular and the ways to use them. The program was very interactive as participants were open to asking Dr all their queries directly to the tutors which made the session much more interesting and a successful one.

The event was concluded by 4:45 pm with a vote of thanks delivered by Mr Thameem. The session was coordinated by Mr Abhijith and Mr Krishnadas.



### 13. LINKEDIN PROFILE DEVELOPMENT AND OPTIMIZATION (IES)

**Date:** 4th June 2021

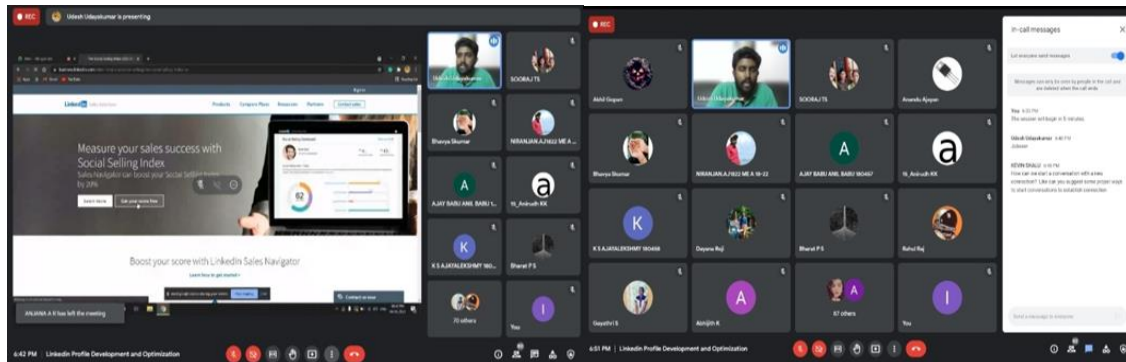
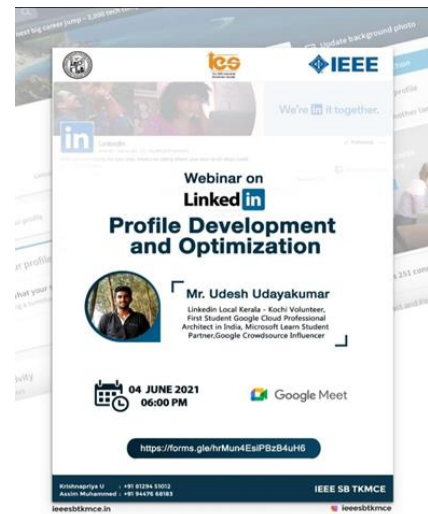
**Time:** 6.00-7.00pm

**Venue:** Google Meet

**Category:** Technical

IEEE IES SBC TKMCE organized a webinar on "LinkedIn Profile Development and Optimization " handled by Mr. Udesh Udayakumar. The event held online through google meet had a total of 78 participants.

The speaker explained the importance of keeping a LinkedIn Profile and maintaining connections through it. The guidelines starting from the creation of LinkedIn Profile along with its effective management was beautifully delivered. The speaker demonstrated his LinkedIn Profile and clearly explained how to make our profile brief at the same time impressive. His tips and tactics for enlarging its accessibility were indeed intriguing.



There was also an interactive session where speakers answered the queries from participants. The speaker also shared the details regarding his LinkedIn Profile and his YouTube channel towards the end. The event was concluded with the vote of thanks delivered by Assim Muhammad. Overall it was an alluring and remarkable session.

#### 14. YP TALKS(MATLAB)

**Date:** 6th June 2021

**Time:** 7:00 PM IST

**Topic:** Matlab Simulink

**Speaker:** Gitin Jacob George

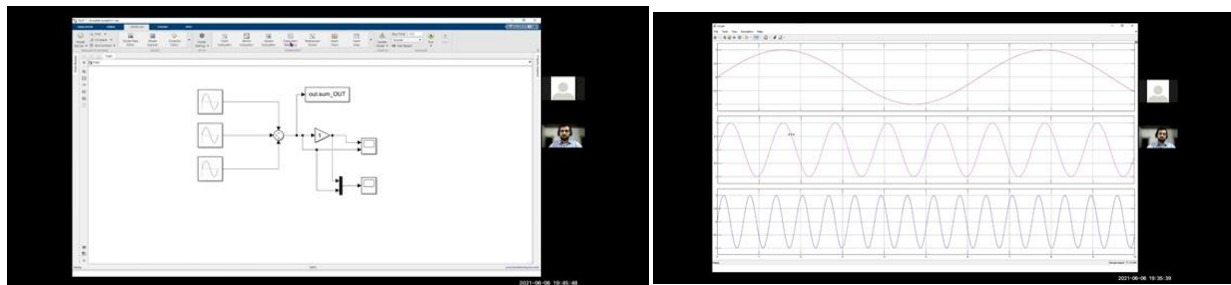
**Number of Participants**

- IEEE-17
- Non-IEEE-28



‘Techtriads 1.0’, a hands-on session on MATLAB was organized by IEEE SB TKMCE in association with IEEE Kerala YP as a COVID relief fundraiser event. The Session was conveyed by Mr Gitin Jacob George, CEO, DAFA Builders Pvt.Ltd wherein few projects were done after a basic introduction to the MATLAB environment. Projects included generating a sine wave model to develop mathematical equations using Simulink. Participants were allowed to interact with the speaker and clear their queries towards the end of the session.

Session Images:



#### 15. IEEE XPLORE TRAINING SESSION

**Date:** 3rd June 2021, 07:30 pm

**Category:** Technical

**Platform:** Zoom

**No. of attendees:** 80

A training workshop for discovering and using the enormous IEEE Xplore Digital Library was held by EBSCO in collaboration with IEEE SB TKMCE and Central Library TKMCE. The hands-on event began with EBSCO Information Services' Senior Training Manager, who was instrumental in guiding IEEE Members in their exploration of the IEEE Xplore digital library.

This webinar focused on improving IEEE supplemental item accessibility, getting the proper set of articles from over 5 million records, and receiving alerts on new content and journals. Furthermore, by recommending specialized search tactics, this webinar proved to be beneficial for interviews and placements. In a nutshell, the whole session concluded by witnessing the sincere participation of IEEE Members and dedicated coordination of the whole IEEE Team.

## 16. TECH SAVVY SCRIBE (SIGHT)

**Date:** 23rd April 2021

**Category:** Technical; Competition

**TECH SAVVY SCRIBE**, a technical writing competition was conducted by IEEE SIGHT SB TKMCE as a part of the Students Humanitarian Technology Conference organized by IEEE Kerala Section SIGHT in association with IEEE LINK on 23rd April 2021.

The competition was based on the theme ‘**Technology to Advance Humanity**’. The participants were asked to submit their entries via mail id before midnight of the same day. A total of 12 entries were received. The entries were evaluated by Mr. Ashik Mohammed Nazar. He is a respected alumnus of TKMCE and also Smart Mobility and Intelligent Transportation Systems Engineer at ARUP Campus, UK. The judging criteria were based on content quality, structure, originality and creativity. Each entrant was sent detailed feedback of their writing to their respective mail ids, to help them to improve their writing skills and also to get insights about technical writing.

Manisha Chandramohan from College of Engineering, Perumon and Sreelekshmi A from TKM College of Engineering, Kollam were selected as the winners securing 17.5 points out of 30. The event was beautifully coordinated by Babitha Teresa Sunny and Dilber of S6.

## 17. WIEVACITY – WIE WEEK 2021

### **17.1. UI/UX WORKSHOP AND PROTOTYPE DESIGNING COMPETITION**

**Date:** 1st May 2021 – 6<sup>th</sup> May 2021

**Category:** Technical

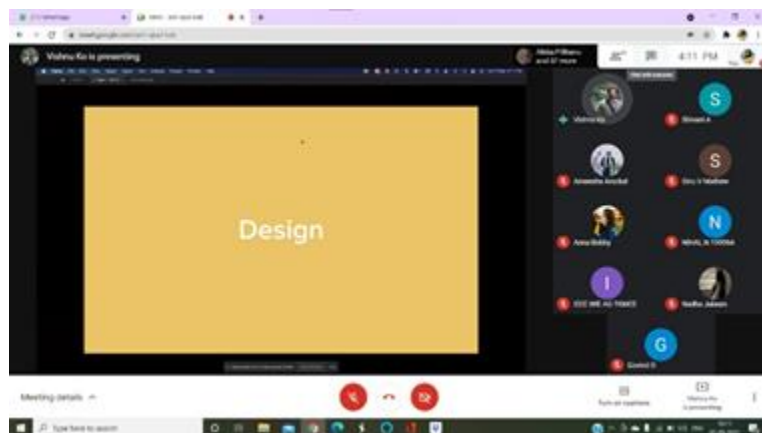
**No. Of attendees:** 70

**No. of IEEE members who attended the session:** 55

**No. of non-IEEE members who attended the session:** 15



As a part of WiEvacity - WiE Week 2021, WiE AG of IEEE SB TKMCE in collaboration with WiE AGs of IEEE SB MACE and IEEE SB LBSCEK conducted UI/UX Workshop and Prototype Designing Competition from May 1st 2021 - 6th May 2021. The 2-day workshop was held on 1st and 2nd May from 4 pm-6 pm and was handled by Mr Vishnu Ko, a UX designer at Zeta Suites. On the first day, the instructor introduced the participants to the UI/UX arena and the second day was a hands-on session using Figma.



The prototype designing competition was from 4th May to 6th May and the participants were asked to design the prototype of an e-commerce platform.

Aditya Vishnu of College of Engineering, Perumon emerged as the winner. The second and third prizes were bagged by Muhammad Shubin V and Abhishek Mohan, both from Mar Athanasius College of Engineering, respectively. The winners were awarded a cash prize worth 1.5K and the participants were awarded certificates.

## **17.2. CROSS SWORDS – DEBATE COMPETITION**

**Date:** 5<sup>th</sup> May 2021 – 6<sup>th</sup> May 2021

**Category:** Competitive/ Non-technical

**No. Of attendees:** 19

**No. of IEEE members who attended the session:** 12

**No. of non-IEEE members who attended the session:** 7



As part of WiEvacity - WiE Week 2021, WiE AG of IEEE SB TKMCE in collaboration with WiE AGs of IEEE SB MACE and IEEE SB LBSCEK conducted Cross Swords - a debate competition for the best debater. It was conducted in two rounds; the first round was on 5th May 2021 from 7:00 pm to 8:30 pm and the second round was on 6th May 2021 from 7:00 pm to 8:00 pm. Mr Akhil Sreekumar was the judge of the competition and the moderators were Ms Jamie Jacob and Ms Amitha J Augustine.

Merin Mary Josy of MACE emerged as the winner. Nebu Titus Thomas and G Nandagopal, of TKMCE, won the 2nd and 3rd prizes respectively. Winners were awarded prizes worth 1k and the participants were awarded certificates.

## **17.3. LET'S TALK. PERIOD**

**Date:** 8<sup>th</sup> May 2021

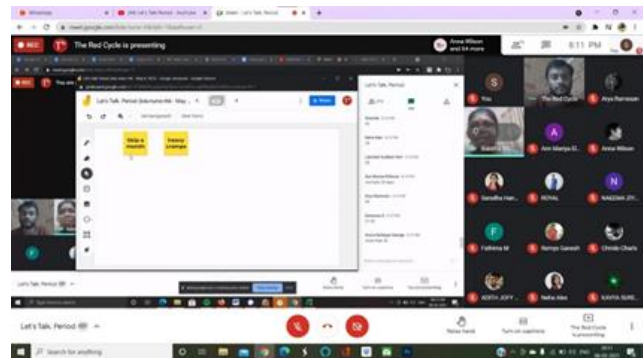
**Category:** Educational/ Non-technical

**No. Of attendees:** 71

**No. of IEEE members who attended the session:** 56

**No. of non-IEEE members who attended the session:** 15





As a part of WiEvacy- WiE Week 2021, WiE AG of IEEE SB TKMCE along with WiE AGs of IEEE SB MACE and IEEE SB LBSCEK in association with The Red Cycle conducted "Let's Talk. Period", a conversation on menstruation and beyond on 8th May 2021 at 7:30 pm via Google Meet. The session was led by Ms Babitha P S, Co-founder of Sustainable Menstruation Kerala Collective and Mr Arjun Unnikrishnan, Co-founder and Executive Director of The Red Cycle. The 2-hour interactive session helped break a lot of stereotypes and stigma around menstruation and it encouraged many girls to open up about their difficulties and experiences regarding menstruation. The session also dealt with menstrual health and its importance.

#### 17.4. KNOW YOUR RIGHTS

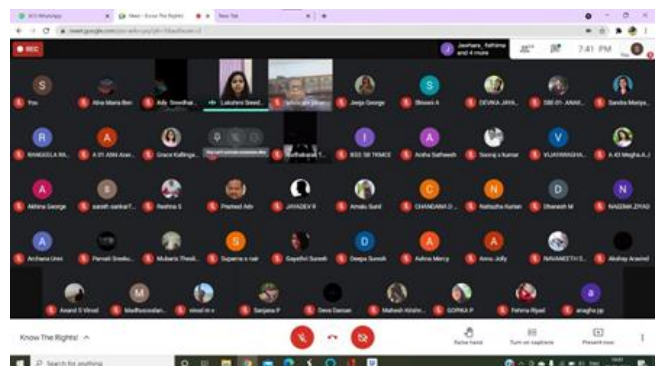
**Date:** 9<sup>th</sup> May 2021

**Category:** Educational/ Non-technical

**No. Of attendees:** 60

**No. of IEEE members who attended the session:** 40

**No. of non-IEEE members who attended the session:** 20



As part of WiEvacity - WiE Week 2021, WiE AG of IEEE SB TKMCE in collaboration with WiE AGs of IEEE SB MACE and IEEE SB LBSCEK conducted 'Know Your Rights', an awareness session on the legal support entitled to women in India, on 9th May 2021 at 7:30 pm via Google Meet. The session was led by Ms Lakshmi Sreedhar, Advocate, High Court of Kerala. The 1-hr session saw the participation of around 60 attendees actively interacting with the speaker via chat box and voice chat. The session primarily explained the legal side of most issues faced by women in our country.

## 18. YP TALKS - INSIGHTS ON APPROACHING PLACEMENTS

**Date:** 6th July 2021

**Time:** 7:00 PM IST

**Topic:** Insights on Approaching Placements

**Speaker:** Mr Althaf Muhammed

**Number of Participants**

IEEE-32

Non-IEEE-61



**IEEE SB, TKMCE** along with **IEEE PES SBC, TKMCE** in association with **IEEE YP Kerala Section**, conducted **YP Talks**, an interactive session on 'The Insights on approaching placements.' The speaker for this session was **Mr Althaf Muhammed** who is a successful system engineer at Infosys.

Mr Althaf began the session by mentioning the different types of companies that exist in the industry and the importance of choosing companies properly for better learning experiences. He then gave an idea regarding how students should prepare for their interviews.

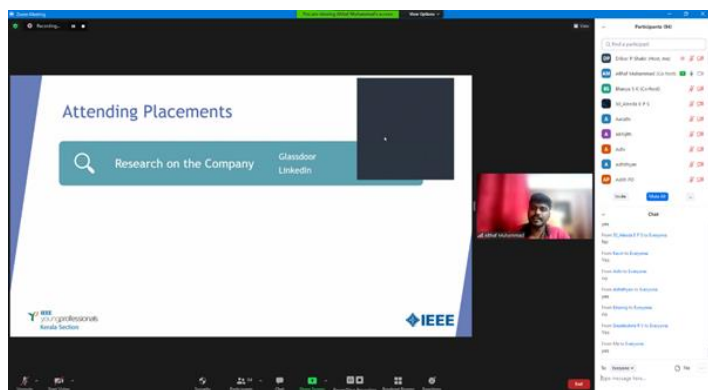
Then, he spoke about the things to keep in mind while attending placement sessions. He advised students to research the company before attending their placements and also highlighted the



importance of appearance and resume. He continued the session by talking about the different levels of placements and how students should prepare for each of these levels.

The next session dealt with job hunting through job portals and communities as well as performing

well in competitions conducted by the companies. Towards the end of the session, he emphasized the importance of trying until you get to the goal you want to reach. He ended the talk by clarifying the doubts students had about placements and companies.



enlightening session.

## 19. VSPEAK

**Date:** 27th June 2021 - 14th July 2021

**Category:** Competitive

**Platform:** Instagram

**No. of entries:** 34

IEEE SB TKMCE conducted an online discourse based on the topic of Deep Fakes as a competition titled VSpeak. The event was organized in the loving memory of Devassi K Joseph, a dedicated and exuberant IEEE Volunteer.

Participants shared their thoughts on Instagram and on receiving feedback from their fellow competitors, added on more of their thoughts on the platform.

The competition was carried out smoothly with a total of 34 entries. Ardra Ajith bagged the first prize while the second and third positions were bagged respectively by Aparna Anil and Milan Ninan Ittyepie. Winners were provided with attractive cash prizes and certificates.



## 20. BSNL HUMANITARIAN PROJECT \_ INSTALLATION OF FTTH IN REMOTE AREAS

**Date:** 2nd - 5th September 2021.

**Category:** Humanitarian, Technical

**No. of volunteers:** 9 student volunteers (TKMCE)

**No. of IEEE volunteers :** 5

**No. of non-IEEE volunteers :** 4

IEEE SB TKMCE organized an outreach programme in five tribal settlements of Kannur in association with IEEE SIGHT Kerala Section and Department of EEE, TKMCE. The project was aimed to set up a High-speed internet connection by Fibre to Home technology FTTH to these five villages with acute necessity. This project provides a facility for online education to 200 needy students of these areas.

A project funding of Rs 2,22,305/- from the Kerala section and an additional amount of Rs 80,509/- from the Department of EEE contributed to the programme. All the equipment and devices were purchased and payments were made by the Section directly.

The students of ST settlement colonies in Kannur were identified to be facing difficulty with online education with the lack of proper internet facilities. So the proposal included five ST settlement areas for extension of internet facility through BSNL (FTTH) Fibre to Home technology. The colonies included are

- 1) Chalil colony under Kolayad Panchayath
- 2) Panniyode Colony
- 3) Puzhiyode Colony
- 4) Kolappa
- 5) Kaniyoor colony under Chittariparamba Panchayat

The project was aimed to establish connectivity through common facilities like Anganvadi, Community Hall etc.



established to the five settlements of the Kannur district successfully. The project paved a way for solving the needs of those students who are still out of the bounds of network connectivity. Natives, Forest officials, and BSNL officers gave their utmost dedication to the implementation of the project.

The major success of the project was that, from planning to execution, most of the work was done by student volunteers with the help and support of TKMCE faculties and BSNL executives. As a further step, UPS has been allocated to relevant centers where regular shortages in the power supply are experienced.

FTTH connections have been



To facilitate future projects, another team from TKM College of Engineering will be sent to examine further improvements required and implement the same.

## 21. RECEVOIR 5.0

**Date:** 3rd - 5th September 2021

**Time:** 9 AM - 8 PM

**Platform:** Google Meet, Microsoft teams

RECEVOIR 5.0 was a 3-day technical extravaganza held virtually by IEEE SB TKMCE to build up the skillset of our students. Multiple workshops were held over 3 days to give a basic idea about AR/VR, GitHub, and Chatbots. A soft skills workshop was also conducted to help the students gain insights on networking, personal branding, financial literacy, and design thinking. Mini informal sessions were held as an ice-breaking activity at the beginning of the event. A total of 110 participants registered for this event.



### **Coordinators:**

Abhiraj R

Nadha Jabeen T

## **INAUGURAL CEREMONY**

**Date:** 3rd September 2021

**Time:** 4:00 PM - 5:00 AM

**Platform:** Microsoft teams

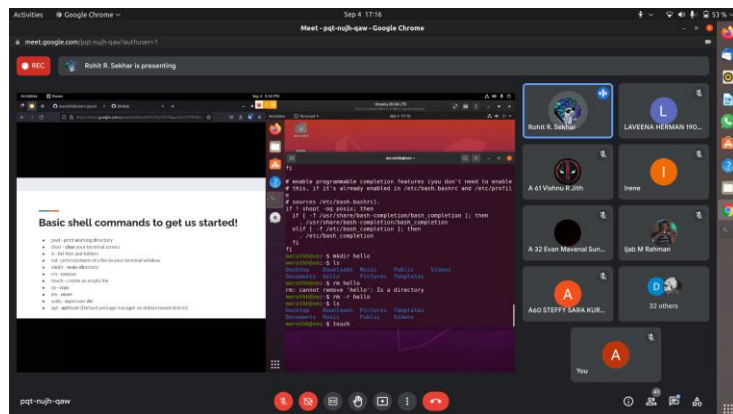
The beginning of RECEVOIR 5.0 conducted by IEEE SB TKMCE was marked with an inaugural ceremony. The session was conducted online through the Microsoft teams platform. Dr Bijuna Kunju, chair of IA/IE/PELS joint chapter Kerala Section and advisor of IEEE PES/IES SBC TKMCE officially inaugurated the ceremony. The gathering was welcomed by Dr Sabeena Beevi, branch counsellor of IEEE SB TKMCE. The felicitation session included Prof. Sunita Beevi, Chair Professional Activities Committee, Kerala Section, Dr Imthias Ahamed TP, Prof. EEE Dept, Prof. Shyba S, Associate Prof. EEE Dept, and Prof. Reshna S, Associate Professor ECE. The session was anchored by Nadha Jabeen T. On behalf of IEEE SB TKMCE and all the students, years Gopi Krishna V delivered the vote of thanks.



## Shivani A

**Platform:** Google meet

## Number of non-IEEE Members:5



Akshara Jayachandran

IEEE SB TKMCE organized a Git and Github workshop as a part of Receiving 5.0. The introductory speech was delivered by Laveena Herman. The session was handled by Rohit R

Sekhar, TKMCE alumni, who is presently working as an AOSP engineer at /e/. The session covered various topics like managing and collaborating on a project on Github. The participants were introduced to basic shell commands. Clear instructions were given on configuring git on your system and working with repositories. The session covered various topics along with hands-on experience in versioning projects. The vote of thanks was delivered by Akshara Jayachandran.

**Platform:** Google meet

### Participants:

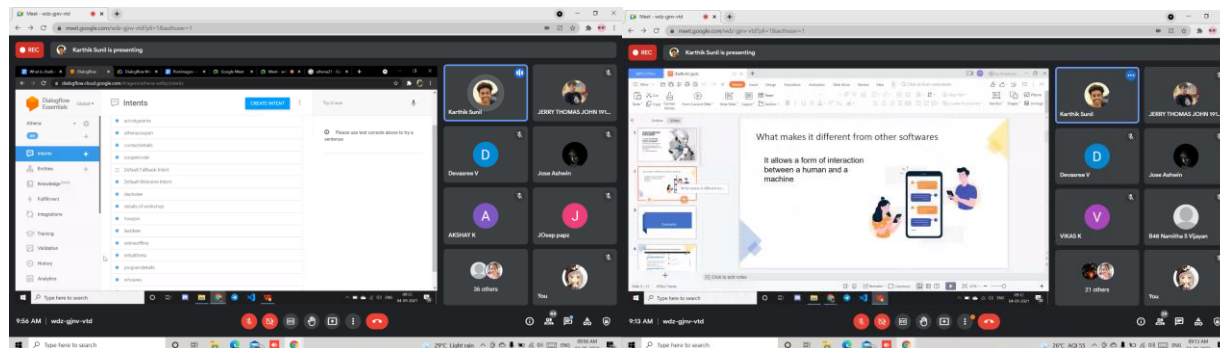
Number of IEEE Members: 43

Number of non-IEEE Members: 3

**Coordinators:**

Jerry Thomas John

Haifa Hamsa



A two-day-long workshop on “Chatbot using AI” was conducted by IEEE SB TKMCE as part of RECEVOIR 5.0. The workshop on 4th Sept was handled by third-year Mr Karthik Sunil, a flutter intern at Tatos Technologies Pvt.Ltd, while Mr.Sooraj TS, an Innoviz Think for TKM winner and python enthusiast led the workshop the next day. After the basic understanding of Chatbots, participants were introduced to the NLP platform Dialog Flow on the first day. A telegram echo bot was developed with the aid of python and VScode on the second day, thus providing hands-on experience. All queries from participants were dealt with during the session itself. The event had active participation from 1st and 2nd-year students.

### 21.3. AR/VR WORKSHOP

**Date:** 05-09-2021

**Category:** Technical

**Platform:** Google Meet

**Participants:** 49

Number of IEEE Members: 40

Number of non-IEEE Members:9

**Coordinators:**

Nithin Jose

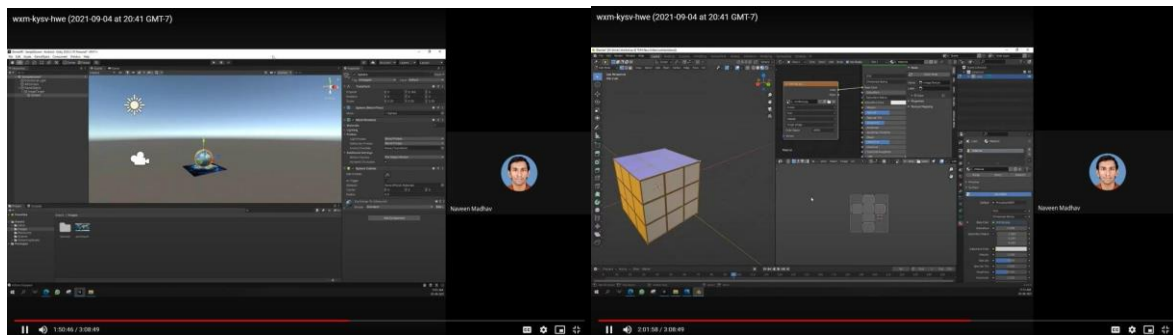
Rohit Karunakaran

Anjali Menon

A session on AR/VR was conducted by IEEE SB TKMCE as a part of Recevoir 5.0. The session started with a welcome speech by Nadha Jabeen. Naveen Madhav BM, an AR/VR Developer currently in his fourth year at Cochin University of Science and Technology, served as the session's mentor. The session covered the fundamentals of AR/VR, as well as a simple hands-on project based on AR using Vuforia. Attendees were required to install and configure the Unity game engine, Blender for 3D modeling, and the Vuforia SDK before the event.

Issues while unity installation and setup were cleared initially. The session was an eye-opener to the future. The session was successful in instilling in the audience a spirit of innovation and creativity. A doubt clearance session was also arranged at the end.

A feedback form was circulated in the end and the responses were resounding. Links and resources for further studies were also provided. The event was well co-ordinated by Nithin Jose and Rohit Karunakaran.



## **21.4. SOFT SKILLS WORKSHOP**

**Date:** 4th and 5th September 2021

**Category:** Managerial

### **Coordinators:**

Nadha Jabeen T

Shivani A

## **SESSION 1: NETWORKING AND PERSONAL BRANDINGSESSION 1: NETWORKING AND PERSONAL BRANDING**

### **Participants:**

Number of IEEE Members: 45

Number of non-IEEE Members: 5

IEEE SB TKMCE conducted the Soft skills workshop exclusively for those who aspire to thrive in their occupational skills.

The workshop was carried out by Farha Kareem, currently working as co-founder of Meet Resume and SDE at Amazon. She kickstarted the session by sharing her experiences and citing the principles that led to her essence of success. She illustrated the advantages of indulging in networking with influential people and described the impacts people could adhere to throughout their journey.

Diving into her experiences, she showcased her immense potential through the chances she could take. She enrolled for the Google Assistant Action Competition at GHC and got shortlisted for the event in Bangalore. Being a Google Dev speaker, she got a lot of opp and this solemnly favored in bagging the placement from Amazon.

One of the main highlights she pointed out is to stick to the opportunities and face their difficulties to flourish beyond our expectations. She also stressed the right exposure to each platform to articulate the gap between passion and achievements.

The workshop concluded with an interactive questionnaire session and ended smoothly. In a nutshell, building a connection must be established before meeting prominent experts from our fields of interest and social media can be utilized for such a purpose.

## **SESSION 2: FINANCIAL LITERACY**

### **Participants:**

Number of IEEE Members: 41

Number of non-IEEE Members: 4

Soft skills workshop was resumed from 4 pm-5 pm by Farha Kareem and she focused on financial literacy that comprises passive income and secondary income generation. She highlighted the importance of being financially stable from a younger age, which results in establishing an immense value for education and efforts.

Stock investment is also an option for those who look forward to building an income and has to be done precisely when selecting the companies in which we have to invest in. She advised us to divide the money, learn about the companies and their stock markets and spend on the returns after investing our money.

She also stressed the importance of getting into the right internships and fetching experience with skilled people. Lastly, the session ended with multiple questions from the participants and she provided the right answers based on her views.



Farha Kareem's podcast link was also shared among the attendees and this was also a perfect way of making a secondary income. Overall, the session proved to be fruitful to the participants with many insights and advice from the speaker.

### SESSION 3: INTRODUCTION TO DESIGN THINKING

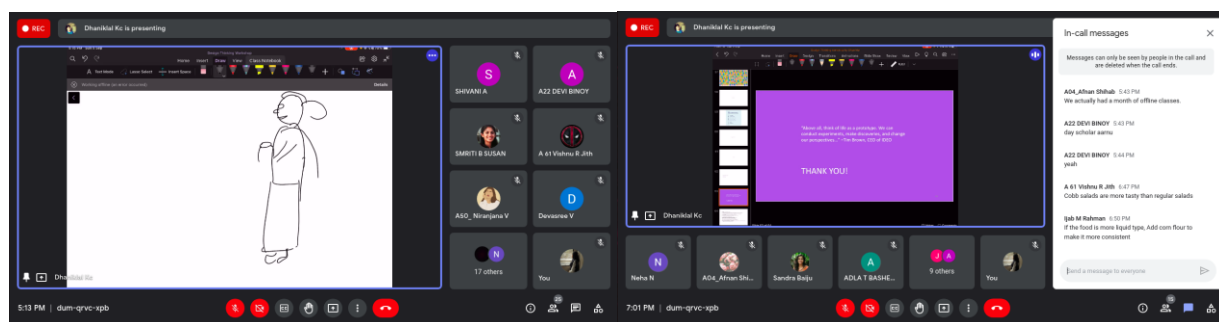
#### Participants:

Number of IEEE Members: 23

Number of non-IEEE Members: 2

As part of RECEVOIR 5.0, an event brimming with technical and non-technical programmes exclusively for the students of TKMCE, IEEE SB TKMCE conducted a session on 'Introduction To Design Thinking'. The session was conducted through the google meet platform on 5 September 2021 from 5 PM To 7 PM. The keynote speaker of the session was Mr Dhaniklal K C, Product Designer, alumni of TKM College of Engineering and then pursued M.Des in Product Design and Engineering, Centre for Product Design and Manufacturing, IISC Bangalore.

The session focused on the concept and importance of design thinking which is an iterative process to tackle a set of problems. After elucidating the practical application of design thinking through an example based interactive activity, he also took the participants through one of his digital product based projects which were helpful. Participants were required to constantly interact with the host throughout the session and hence the session was extremely interactive and interesting. The event was a grand success and ended fruitfully. An award was presented to the speaker as a token of gratitude for the wonderful session followed by the event.



## 22. BEI RICORDI (IEEE DAY CELEBRATIONS)

**Date:** 06 October 2021

**Time:** 7.00 pm - 9:00 pm

**Category:** Informal

**No.of Attendees: 35**

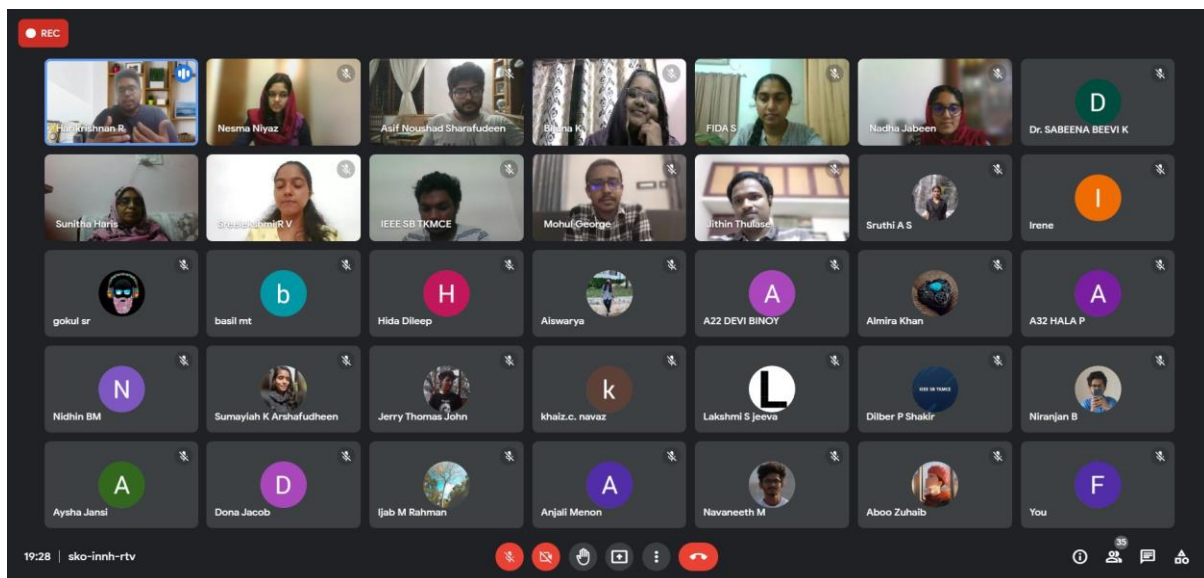
As a part of IEEE Day celebrations 2021, IEEE SB TKMCE conducted Bei Ricordi, an experience-sharing session with previous Execom members. The event was quite enticing and everyone seemed to enjoy themselves.

The event was moderated by Nadha Jabeen, a third-year representative of the student branch. Sabeena Beevi, Branch Counsellor of IEEE SB TKMCE kickstarted the event with a welcome address and shared her experience with the Execom. Bijuna Kunju K, chair of IA/IE/PELS joint chapter, and Sunitha Beevi, Mentor of the student chapter also gave best wishes to everyone and shared their experiences with IEEE.

Cherishing old days and sharing their memories as IEEE members, time flew away quickly. Previous Execom members including Asif Noushad Sharafudeen, Hari Krishnan R, Jithin Thulase, Sebin Sabu, Sruthi AS, and a few others were present. They mentioned how IEEE is like a family for them and the talk became emotional at a point while reminiscing their good old memories. The occasion was filled with bliss and was very captivating.

Benefits of joining IEEE and tips to boost membership and participation were discussed as well. The session ended with a vote of thanks given by Sreelakshmi RV, vice-chair of IEEE SB TKMCE.

**Screenshot of the meeting:**



## 23. SNAPCHAT LENS STUDIO WORKSHOP

**Date:**8th October 2021

**Time :**7 pm - 8:30pm

**Category:** Workshop, Educational, Technical

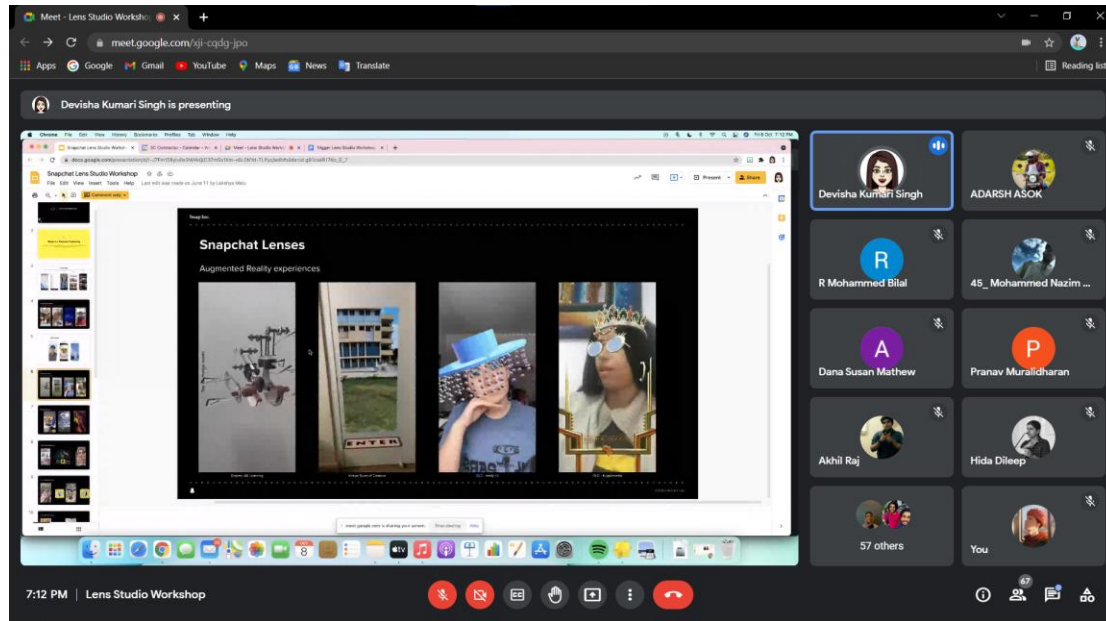
**Venue:** Google Meet

**No.of attendees:**67

IEEE SB TKMCE conducted a Snapchat Lens Studio workshop, as part of IEEE Day celebrations. The workshop was conducted by people working with Snapchat and it proved to be very beneficial in empowering all the attendees to become Lens creators.

Moreover, in the era of filters, IEEE introduced such a platform to aid in creating, publishing, and sharing lenses with millions of snapchat users across the globe. This workshop also proved instrumental in exploring Lens Studio and helped in building an augmented reality experience through this software.

The workshop was coordinated smoothly and handled to its fullest potential, befitting the attendees with an enlightening session.



24.

## FUSION360 WORKSHOP



**Date:** 9th October 2021

**Category:** Technical

**No. of participants:** 40

**No. of IEEE Members:** 15

**No. of non-IEEE Members:** 25

IEEE PES SBC TKMCE in collaboration with IEEE IES SBC TKMCE organized a hands-on workshop on Fusion 360 for the students.

The event was held online through Google Meet. The event started at 6 pm and had a total of 40 participants. The opening address was delivered by Anu Francis and she cordially welcomed Mr Abhinav Rajeev, who is currently working as a product designer at DIY Guru.

The speaker covered various topics from Fusion360. The session covered the basics of modelling strategies and tips. Proper sketching strategies were also discussed. The suspension system of a

bike was designed and rendered. This was later made into an animated video. He also taught the participants to make an analysis report with all the details.

Questions raised by the students were answered at the end of the session. The session came to an end around 7:35 pm. The event was coordinated by Krishnapriya U and Navaneeth M. The session received a good response from the participants.

## 25. PES ARTICLE WRITING COMPETITION

**Date:**11- 18th Oct 2021

**Category:** Non- technical

**No.of attendees:**15

**No. of IEEE members who attended the session:**13

**No. of non-IEEE members who attended the session:**2

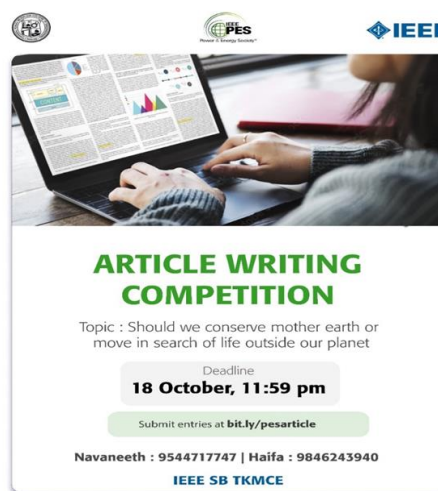
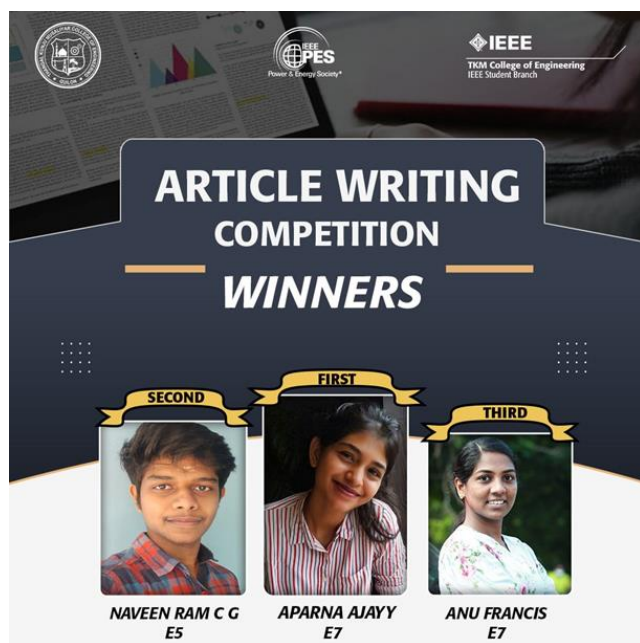
**IEEE PES SBC TKMCE** conducted an article writing competition where the participants were able to share their insights and views on the topic ‘Should we conserve mother Earth or move in search of life outside our planet?’ within a word limit of 400-750 words. The program was conducted through online mode. The participants were asked to use only English language for their article and they were requested to submit their entries in the google link provided within a period of one week. The posters and write-ups of the competition were shared through college whatsapp groups so that all the students got to know about the event. The submission deadline for the same was 18th October 2021, 23:59 IST.

The purpose of the competition was to encourage the students to enhance their thinking and writing skills and all the participants showed great passion and commitment to their work and put everything in with great competitiveness. There were more than 15 entries and they were judged on the basis of novelty, creativity and originality and the winners were selected.

First position-Aparna Ajay (E7)

Second position-Naveen Ram C G(E5)

Third position-Anu Francis(E7)



## 26. INTO THE VOID (SPACE WEEK)

**Date:** 12<sup>th</sup> October 2021

**Time:** 7:00 pm – 10:00 pm

**Venue:** Online (1<sup>st</sup> round- Google Form; 2<sup>nd</sup> round: Google Meet)

**Category:** Educational, Competitive

**No: of participants:** 19

**IEEE Members:** 7

**Non-IEEE Members:** 12

As part of the Space Week 2021, IEEE WiE AG TKMCE in collaboration with TKM Quiz Club conducted “Into the Void”, a quiz competition based on the theme “Women in Space, Astronomy and Sci-Fi” on 12<sup>th</sup> October 2021. The event was conducted in two rounds. The first round was a test inclusive of 20 questions. The test started at 07:00 PM and 20 participants attended the quiz which was conducted via google forms. The session was completed by 07:30 PM. Top five participants qualified for the next round. The final round was an online quiz conducted via google meet which started at 08:30 PM. There were two sections: Pick your poison and Shoot at sight. In the former, qualified participants were shown 10 questions and were made to choose their marks and they were given marks based on their answer. The latter had 5 questions and each question carries 10 marks for the right answer. The participants were asked to identify the description of famous personalities (women successful in the field of astronomy). The session was concluded by 10:00 pm.

**Winners:**

**1st prize:**

Sreelakshmi K V



Christ college of Engineering, Irinjalakkuda

**2nd prize:**

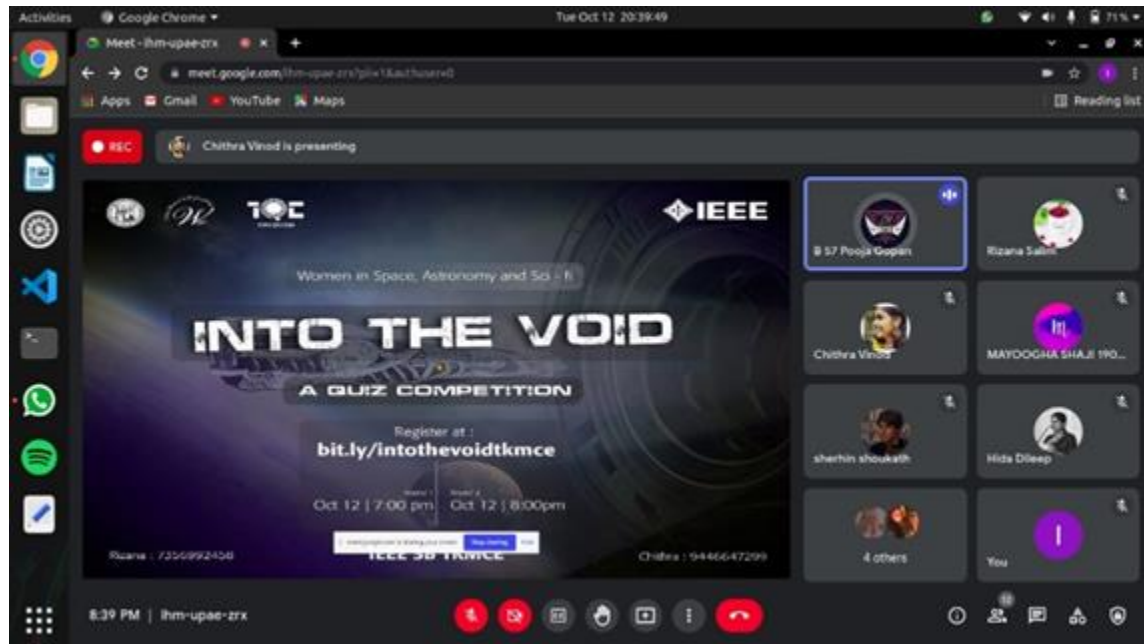
Sandra C Nair

Christ College of Engineering, Irinjalakkuda

**3rd prize:**

Akhil Raj Nair

TKM College of Engineering, Kollam



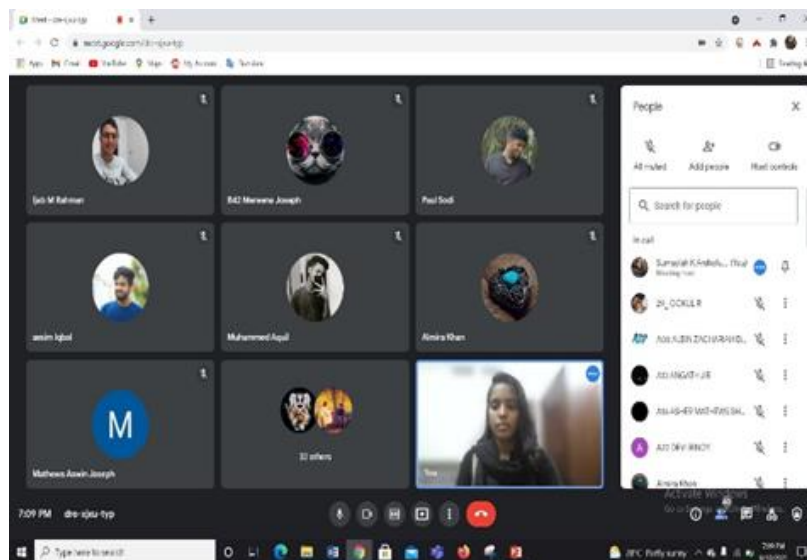
## 27. AN INSIGHT INTO IEEE XTREME

**Date: 10th September 2021**

**Time: 7pm**

A Webinar, providing detailed information on IEEE Xtreme 15.0 was conducted by the IEEE SB TKMCE, on 10<sup>th</sup> September 2021. The speaker was Ms. Sumayiah K Arshafudheen, the IEEE Xtreme 15.0 Ambassador from the TKMCE Student Branch. With the aid of a PowerPoint presentation containing all information regarding the IEEE Xtreme event, the speaker explained the history, technicalities, and features of the event. The webinar lasted for 30 minutes and had about 48 participants. The webinar was followed by a doubt clarification session. The feedback of the participants regarding the webinar was positive. The session concluded by 7:35 P.M.





## 28. XTREME KICKSTARTER (IEEE XTREME COMPETITIVE CODING)

**Date: 10-10-2021**

**Time: 10 am - 10pm**

**Participants: 42**

As a part of the pre-events of IEEEEXTREME 15.0, the IEEE SB TKMCE, along with the IEEE CS SBC organized 'Xtreme Kickstarter', a mini IEEEEXTreme Mock. The competition involved a 12 hour coding challenge. A cash prize of 2000 rupees was fixed for the winners. The event was coordinated by Sumayiah

and Niranjan, members of the student branch. The competition was hosted on HackerRank. A total of 12 challenges were provided to the participants to complete within the 12 hour window. The winners of the challenge were as follows:

1. Team - Data Pirates of TKM

Fathima Nooha Kottangodan  
Almira Asif Khan  
Lubeib P

2. Team – Mongoose

Jishnu M  
Al Ameen  
Allen Zac Cherian

The winners were awarded with cash prizes as well as achievement certificates and the participants received Participation Certificates.



## 29. DIGITAL TWINS \_INFORMATICA (COLLAB)

**Date:** 12<sup>th</sup> October 2021

**Time:** 7:00 pm – 10:00 pm

**Platform:** Google Form , Google Meet

**Category:** Educational, Competitive

**No: of participants:** 40

**IEEE Members:** 15

**Non-IEEE Members:** 25

Women in computing of IEEE computer society chapters of TKMCE kollam, MBCET Trivandrum, CCE Irinjalakuda and CETkr organized a webinar 'Demystifying Digital Twins' as part of INFORMATYKA

on 2-10-2021 at 11 am. There were 40+ participants present in the meeting. The meeting was for IEEE and non IEEE members. The webinar was hosted by Nandha 2nd year, computer science engineer at TKM College of engineering. The webinar was held by DR.N.Arunachalam who is associate professor of Dept mechanical engineering at IIT MADRAS. He talked about industrial models, revolutions, etc. It was an interesting session.



## 30. PANEL DISCUSSION ABOUT CAREER GUIDANCE

**Date:** 9<sup>th</sup> October 2021

**Category:** Educational

**Time:** 4:30pm – 6pm

**No. Of attendees:**

**No. of IEEE members:**

**No. of non-IEEE members:**

**IEEE Education Society (EdSoc) Kerala Chapter** organized a Panel Discussion as part of the IEEE Day celebration on Saturday, 9th October from 4.30 PM to 6.00 PM IST. The discussion was on the topic 'Career Guidance for Engineering Students' and was moderated by Dr. Chithra Prasad, Former Professor & Head of the Department of Computer Science and Engineering, TKM College of Engineering, Kollam. The panelists for the discussion were Er. Satish Rao, Retired Engineer from Caterpillar India Pvt. Ltd, Bangalore, Er. Shinto Joseph Director, South East Asia Operations, LDRA India and Er. Saj Kapoor, Senior Director (Engg.), Wireless Communication Chip Development, Analog Devices, Bangalore. The event is organized in association with IEEE ES SBC AVVP AMRITAPURI, IEEE ES SBC CE PERUMON, IEEE ES SBC NSSCE PLGT, IEEE SB CE ADOOR, IEEE SB MEAEC PTMNA, IEEE SB TKMCE

KOLLAM, IEEE SB SJCET PALAI, IEEE SB RSET KOCHI, IEEE SB MACE KTMLM, and IEEE SB ASIET KALADI.



## 31. INFINIT

**Date:** 15<sup>th</sup> December 2021

**Category:** Competitive

**No. Of Participants:** 49 (15 IEEE + 34 NON\_IEEE)

**Venue:** TKM College of Engineering

**InfiniT**, an offline treasure hunt involving puzzles and games was conducted by **IEEE SB TKMCE** on 15<sup>th</sup> December 2021 exclusively for 2<sup>nd</sup> years. Participants were randomly grouped into teams of four each, thus constituting 10 teams. Event began with the first task at college ground by 5:00 PM. Each task had hints for subsequent tasks. With intriguing tasks focussed mainly on logical reasoning and teamwork, the event was a plethora of

fun and adventure. Scores were awarded and deduced based on performance in each task. Feedback from participants at the end of the event reflected their enthusiasm. Winning team was presented with the prize of 'Spiderman-no way home' tickets by IEEE chairperson Dilber P Shakir and Joint secretary Muhammed Basil. Event concluded by 6:45 PM.



Winners:

- Roshan - Mech
- Adithya Krishnan S- Mech
- Dino Reji Varghese-EEE
- Govind-EEE

## 32. ENCAMP 2.0 (Phase 1)

**Date:** 17th - 19th December 2021

**IEEE SB TKMCE** conducted ENCAMP 2.0 for the first year. The event focused on imparting skills like documentation, video editing, web designing, poster designing, event organizing, and communication, to the students. Each of these tracks was held separately with the clear supervision of seniors and mentors.

### 32.1 INAUGURATION

ENCAMP 2.0 started with an inaugural function on 17th December 2021. The inaugural address was given by Dr. Bijuna Kunju, Chair IE/IA/PELS, Kerala Section, and felicitation by Dr. Reshna. The function was attended by the participants of ENCAMP 2.0 as well as the Execom members.

## 32.2 EVENT ORGANIZING TRACK

**Date:** 17th - 19th December 2021

**Category:** Managerial

**No. Of attendees:**23

**No.of IEEE members:** 2

**No.of non-IEEE members:** 21

The main objective of the IEEE ENCAMP 2. Our event track was to make the students capable of organizing an event by allowing them to conduct events.

The event track consisted of two offline sessions spanning over 2 days. The event track began with a briefing about events, the role of event organizers and essential factors to be considered in event organizing. The session then included a few activities in preparing proposals for demo events and budgeting. Later the session also covered topics of basic tools like OBS studio (YouTube & Facebook live streaming) & excel.

The session was taken by Abhiraj R, program coordinator of **IEEE SB TKMCE**, and the students were given a detailed idea on event planning and coordination, important things to keep in mind while conducting an event, etc. At the end of DAY 1, students were grouped into teams of four and given a task to come up with a plan and schedule to conduct an event at the college. They were asked to prepare a presentation of the same and present their event idea to the audience on the next day.

DAY 2 began with the event presentation of the students. Each team actively participated in the event and was given critical feedback by the coordinators. Aysha Jansi and Irene Boney, 2nd-year student representatives of **IEEE SB TKMCE** mentored the students for the presentation session and helped them by giving suggestions on how to improve their event. Nadha Jabeen, 3rd-year representative of **IEEE SB TKMCE** introduced tools like Zapier, Mail Chimp, survey hearts, etc that helps in automating the flow of event coordination, to the students. The event track concluded with a feedback session from a few of the students.

The students were ranked based on their active participation in the discussions and the completion of the given tasks. 11 active students were selected to phase 2 of ENCAMP 2.0.





### 32.3 DOCUMENTATION TRACK

**Date:** 18th-19th December 2021

**Category:** Non-Technical

**No. of attendees:** 11

**No. of IEEE members:** 3

**No. of non-IEEE members:** 8

The documentation track began with an ice-breaking session followed by a creative writing session. The mentors shared a presentation on the different types of writing, tips, and tricks to write creatively. Fun ice-breaking activities like adding descriptive words for a given word were included. The session adjourned with assignment of writing tasks which the participants were required to complete before the next session.

Day 2 dealt primarily with technical content writing. During the workshop, the students were efficiently mentored by Nesma Nujum Niyaz, 4th year ECE student, .Mekha T Reju and Fathima Nooha Kottangodan, students from 2nd year CSE Dept. and members of the IEEE documentation team.

The documentation track concluded with a feedback session with the participants.



#### 32.4 POSTER DESIGNING TRACK

**Date:** 18-19 Dec 2021

**No. of attendees:** 11

**No. of IEEE members:** 3

**No. of non-IEEE members:** 8

**Resource Person:** Nidhin BM

As part of ENCAMP 2.0, a unique camping experience covering essential skill sets exclusively for the first years, **IEEE SB TKMCE** organized a workshop on poster designing track for two days which was on 18th and 19th of December 2021 from 11 am to 1 pm.

On the first day of the workshop, all the attendees were given a brief introduction to the topic of poster designing as most of them were completely new to the field. All the participants were instructed to install adobe photoshop before the session and the software was provided to those students who were unable to download it by the track coordinators.

The introduction session began with the familiarization of various tools used in Adobe photoshop which lasted for about 1-2 hours followed by which they were given their first task which was to recreate a poster that was given to them and to upload their work through the link provided.

On day 2, a brief review of task 1 was given and after that, the participants were made to design a poster on their own incorporating all the tools introduced to them on day 1 and the required

corrections and suggestions were given to each one of them. The resource person for the track was Nidhin of the final year.

The event saw active participation of about 11 students out of which 3 were IEEE members. The event was organized and coordinated by 3rd years and volunteers by 2nd years with the help and guidance of the **IEEE SB TKMCE** core team.



### 32.5 WEB DESIGNING TRACK

**Date:** 18th - 19th Dec 2021

**Category:** Technical

**No. Of attendees:** 53

**No. of IEEE members:** 7

**No. of non-IEEE members:** 46

**Resource person:** Aboo Zuhaib Gasil CP

The main objective of the event was to give a detailed idea about the basics of front-end development using HTML, CSS, and JS.

The 1st day began with the basics of HTML and CSS under the guidance of mentors Athul Babu and Nithin Jose. Employing live coding and on-time doubt clearance, participants were able to build a successful CSS design project. Under the training of mentors Abu and Aravind Krishna, essentials of JS were covered on the 2nd day, which enabled the participants to create a JS Task app.

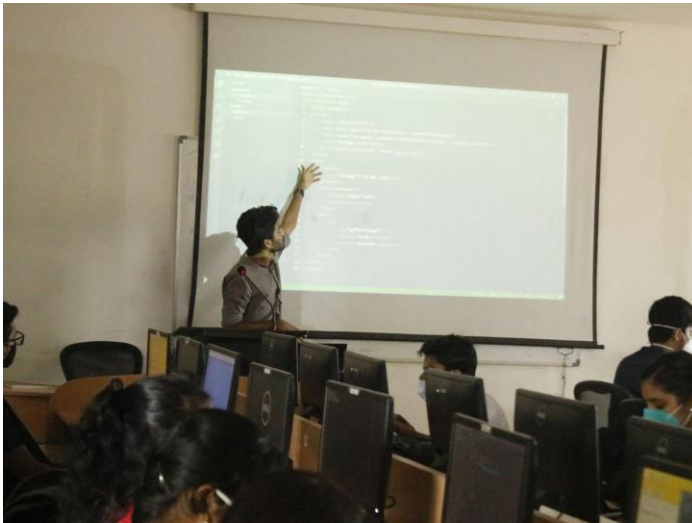
A talk on “What next in web development?” by Niranjan B and Ajith enlightened the participants and provided encouragement to promote their interests. Provision of study materials and routine milestone checks ensured better understanding and active participation.

Participants were assessed on the basis of their project submission, quizzes, and their activeness in the whole event.

The top scorers were:

- Elizebeth Shaji
- Prakeerth Jisha Madhu Prakash
- Devika P Girijan
- Ashin Khalam
- Akhila
- Hashim Biju Mohammed.

At the end of the session, participants were confident enough to build a basic website.



## 32.6 VIDEO EDITING TRACK

**Date:** 18 - 19th Dec 2021

**Category:** technical

**No. Of attendees:** 12

**No. of IEEE members:** 9

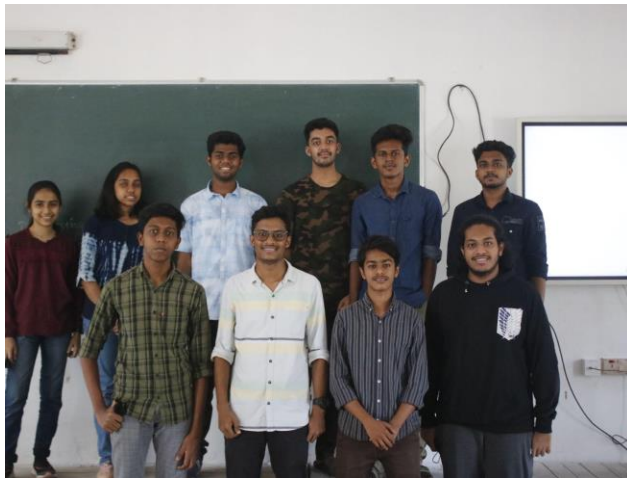
**No. Of non-IEEE members:** 3

**Resource Person:** Dilber P Shakir, Sinadin Shibin

Students were taught the basics of premiere pro editing software through the usage of live tutorials and examples. During the first day students were taught to use panels, tools, sequence, and basics of masking and were tasked with a mini assignment using the topics covered during the session.

During the second day advanced topics like keyframe animations, usage of default and downloadable effects and presets, and motion graphic templates were taught to the attendees.

A feedback session was also conducted towards the end of the workshop.



## 32.7 COMMUNICATION TRACK

**Date:** 18 and 19th Dec 2021

**Category:** Educational

**No. Of attendees:** 26

**No.of IEEE members:** 2

**No.of non-IEEE members:** 24

**Resource Person:**

-Nesma Nujum

-Manu M Johnson



Day 1: An interactive session where the participants were provided with an introduction to the art of public speaking, with emphasis on the usage of eye contact, body language ,etc. The mentor also dealt with eliminating stage fear.

Day 2: Participants were provided with papers to draw some random pictures within a specific time interval. They were asked to exchange the papers with each other to develop a JAM session which ended up as a vibrant event filled with fun and excitement. Points were given to the participants based on their performances.



### 32.8 INFORMAL SESSION

IEEE ENCAMP 2.0 intended to provide a full camping experience. After attending their respective tracks, games and cultural programs were arranged on both days of the camp. ENCAMP 2.0 ended on the 19th of December with a musical night and many among the participants showcased their talents too.







### 33. IDEA PITCHING RAS

**Date:** 20th January 2022

**Category:** Technical

**No. of attendees:**

**IEEE members: 12**

**Non-IEEE members: 8**

IEEE SB TKMCE RAS conducted an Idea pitching contest based on robotics and automation for all the students. The event was conducted in two rounds. The participants had to submit an abstract by 8th January. The best abstracts selected in round 1 were shortlisted for the pitch deck presentation in round 2 which was conducted on 20th January 2022.

5 teams participated in total and 3 of them implemented their ideas using basic ML concepts. One of the teams implemented the ideas using the basics of robotics and the other one brought in more innovation using concepts of IoT and sensors.

Team Beta Tech, whose members are Abhiram K M, Muhammed Hisham V, Adarsh S Kumar, and Aswin Sankar P D from 3rd year electronics department were declared as the winners. The team presented their ideas on Early Heart Disease detection using Machine Learning.



## 34. IEEE PES MEMBERSHIP DEVELOPMENT

**Date:** 8<sup>th</sup> December, 2021

**Time:** 7PM-8PM

**Platform:** Google Meet

IEEE PES Kerala Chapter in association with IEEE PES SBCs of TKMCE, JCET, GECT, MBCET and KMCT organized a session to improve the membership of the society. It was organized as a part of LEAP- Live, Learn, Lead, an initiative by IEEE PES Kerala Chapter. The membership



development session was conducted on 8<sup>th</sup> December, 2021. There were around 40 registrations and around 25 of them attended the session. The platform for the session was Google Meet.

The session began at 7:00 PM and ended at 8:00PM. The session was handled by Muhammed Rashid KK, Membership Development Coordinator, IEEE PES Kerala Chapter. He spoke about the importance and benefits of PES. The session went very smoothly and the participants were quite satisfied with all

the information they received. The session received great feedback.

## AWARDS & ACHIEVEMENTS

### 2021-22

- Sunitha Beevi K - 2021 IEEE Women in Engineering Inspiring Member of the Year Award
- 1st prize PROCOMM-Project presentation competition organized by IEEE ComSoc Kerala Chapter.
- Anandu Ajayan (S6 EEE) presented paper titled "AUTOMIZER - An Automatic Sanitizer Dispenser", Guided by Prof.Sunitha Beevi K on International Women in Engineering Conference on Electrical and Computer Engineering (WIECON-ECE)
- Best project on 5th National Level IEEE Project Competition - (Navaneeth M, Swathi PV, Jithin J, Jasim Ali M) Selected for oral presentation in the IEEE sponsored International Conference on Communication, Control and Information Sciences ICCISc-2021
- (Navaneeth M, Swathi PV, Jithin J, Jasim Ali M) Selected for oral presentation in the IEEE sponsored International Conference on Communication, Control and Information Sciences ICCISc-2021
- (Shikin VC, Shwetha S, Samyuktha Subodh VP) Selected for oral presentation in the IEEE sponsored International Conference on Communication, Control and Information Sciences ICCISc-2021
- Our students bagged the first prize for PROCOMM-Project presentation of 200USD for PROCOMM - Project Presentation Competition organized by IEEE ComSoc Kerala Chapter (Shikin VC, Shwetha S, Samyuktha Subodh VP) - Team Innovators

- (Anandu Ajayan, Kevin Shalu) Won a funding of \$400 for the project titled “Monitoring of covid-19 affected persons of kottamkara using an indigenous sustainable Oximeter”, from Asia Pacific IEEE Humanitarian Activities committee.
- All Kerala 4th rank in membership.
- Received funding of \$150 from IEEE Region 10 for being ranked among the top 50 PES Chapters in the world.
- Prof. Sunitha K - Selected as regional representative of IEEE Region 10 WiP
- Dr. Anzar SM - Published paper titled “Random Interval Attendance Management System (RIAMS) : A Novel Multimodal approach for post-covid virtual learning” in IEEE Access.
- Anjali Menon KR - 2021 Outstanding Student Humanitarian Volunteer