COMPUTER SOCIETY OF INDIA

STUDENT BRANCH

TKM COLLEGE OF ENGINEERING

KARICODE, KOLLAM

ACADEMIC YEAR
2016-2017

CSI ACTIVITIES: 2016-'17 INAUGURATION REPORT

The inaugural ceremony of the CSI activities for the academic year 2016-17 in TKMCE was held on November 2, 2016 in the presence of Dr. D. Chithraprasad, (principal, VKCETcollege), Prof. Ansamma John (HOD, Department of Computer Science and Engineering, TKMCE), Prof.Nadeera Beevi (HOD department of MCA, TKMCE) and Prof. RehannaraBeegum .T Staff coordinator (Student Branch Counsellor).
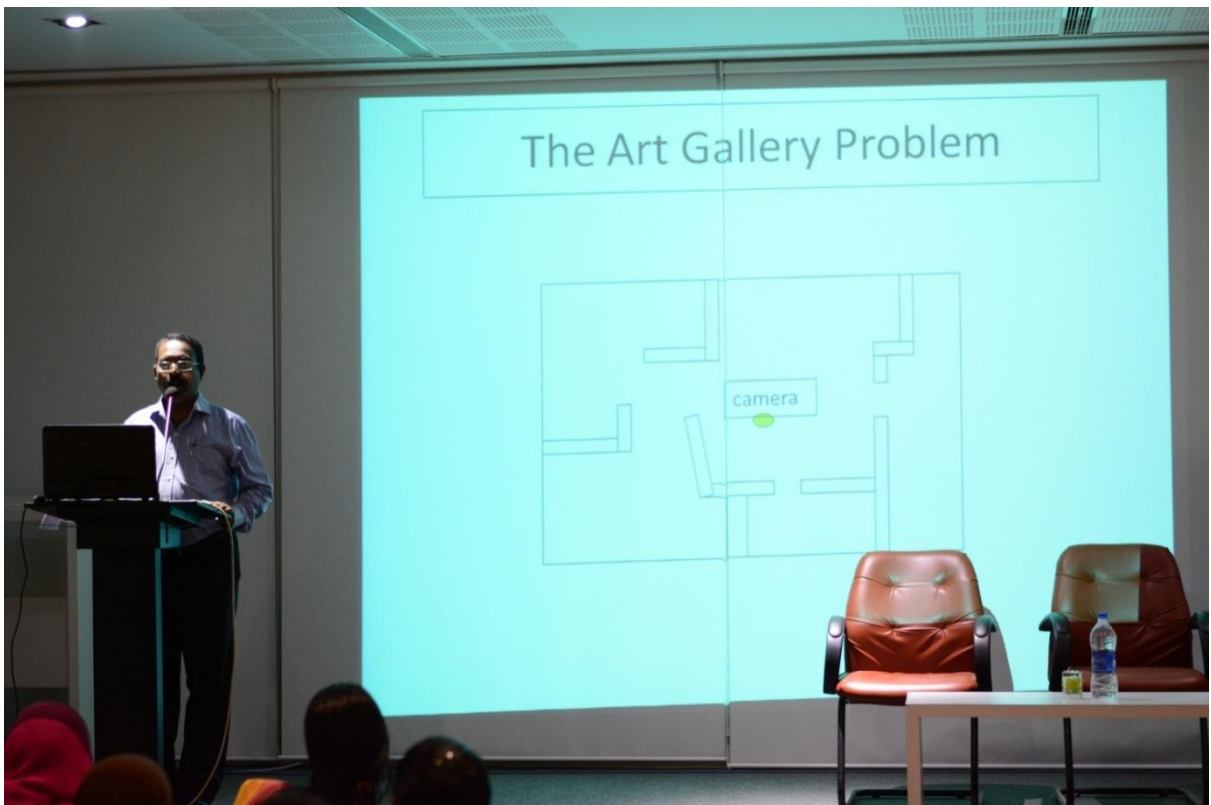
The meeting was addressed by Prof. Ansamma John.

Finally, the vote of thanks was delivered by the CSI student convenor, Mr. Gagan I V.

Expert Talk

Prof D Chithra Prasad also delivered an informative class on art gallery problem, related to computational geometry.

CODEHUNT:

CSI student chapter conducted a coding competition 'CODEHUNT' on the same day of Inauguration. The aim of the competition was to develop coding skills among students. Registration for the competition was made available through Google Forms. A total of 120 registrations was received. Both CSI and non-CSI members took part in the competition. Out of 120 students registered, 19 students were shortlisted for the final round. Judgement was based upon a number of problems solved and time spent on writing successful solutions, also include other factors (quality of output produced, execution time, program size, etc). The final round was conducted on 7th November 2016 at OS and Networking Lab around 4:00-6:00 pm.

Tejus Mohan form R5 bags the first prize and Parth Suresh from R3 bags second prize.

COMQUEST:

Comquest, the technical quiz competition conducted by the Computer Society of India was conducted on 17th February 2017 at the Chemical Seminar Hall as a part of CONJURA 2K'17. The quizmaster was Akshay M, a 2nd-year Computer Science student and member of CSI. The quiz started at 12:00 pm with 9 teams, both at home and away. Four teams were selected into the finals after the prelims, each team scoring very close.

The final round consisted of four innovative rounds. Each round produced unexpected results, with negatives and positives playing with the scoreboard. After a nerve-wracking competition that tested the technical knowledge as well as their confidence in themselves, it was Gokul Suresh and Adhithya A. Rajan of TKMCE, who emerged as the winners. The second position was bagged by the duo of Sidhin S. Thomas from RIT and RichuShaji Abraham of CUSAT. Winners were presented with certificates and cash prizes.

WORKSHOP ON SECURITY TESTING USING PYTHON

Web security is one of the most sought fields in technology. Keeping in mind its importance this Conjura, a workshop on security testing using python was organised by the Computer Society of India, the student chapter of TKMCE at theFoss lab on 17th march from 9:30 am to 4:30 pm.

The workshop was conducted by Mr Francis Alexander, a freelancer famous both in India and abroad for his research-oriented talks and conferences. It mainly focused on the basic concepts of python from an application security perspective.

The first half of the session covered elementary python, including the various versions. It also familiarised the participants with strings, dictionaries, files etc.

Since practical knowledge helps to grasp the concepts better, the theory was followed by a set of exercises involving the basics of python.

The first half ended with a fun competition that was arranged to keep the participants interested and engaged. It involved hacking and breaking a password to get a key, the first one to crack it was Adarsh D of TKMCE and he was awarded a prize for the same.

The afternoon session revolved around the fundamental notions related to browsers and internet protocols. It provided the participants, various ideas for improving their vision about web security.

ACADEMIC YEAR
2017-2018

SHELL SCRIPTING WORKSHOP

CSI TKMCE Chapter marked the beginning of this year's activities with a workshop on Shell scripting for the 1st year Computer Science students. It was held on 6th and 7th January 2018. Two students of S6 Computer science, Aromal and Irene, were the resource people for the workshop. It was a collegiate level workshop in which around 20 students attended. It mainly covered the basics of bash scripting, which is useful to the students, as it was a subject to be learnt in the 4th semester(Computer Science).

PYTHON GAMING WORKSHOP

A 2-day Python Gaming workshop was conducted by CSI TKMCE Chapter for students of all branches on 3rd and 4th March 2018. Noufal Ibrahim, Founder of Lyceum was the resource person for the workshop. Around 40 students attended it. On the 1st day, the basics of python were covered. On the 2nd day, an introduction to gaming concepts followed by the development of a game made a positive impact on the students.

ACADEMIC YEAR
2018-2019

GAME OF TECH QUIZ

Game of Tech started its pioneer journey with an exciting quiz for all tech enthusiasts in TKM. The quiz was conducted by CSI TKMCE in association with TKMCE Quiz Club on 10th October 2018. A total of 25 teams (2 members per team) participated in the quiz which was held in the CS seminar hall. The quiz consisted of a quality set of questions, unique ideas and had a format to suit the theme. The host did a good job to make the program appealing and entertaining to all the participants. All the teams performed well. It was conducted in 3 phases. In the end, the team consisting of Amal and Vishnu bagged first place and the team consisting of Rasal and Salman bagged second place.

October 25th 2018
4:30 P.M.
Venue: FOSS Lab

GAME OF TECH

A technical quiz
brought to you
by CSI and TQC

TKMCE QUIZ CLUB

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Ashmy: +91 90612 25025

BLOCKCHAIN WORKSHOP

To equip the students with the basics of blockchain, a workshop was conducted by the CSI TKMCE Chapter on 11th November 2018. It was taken by Mr. Ananthapadmanabhan, Blockchain Developer, NetObjex. It was a collegiate level workshop wherein students from various branches attended. There were around 40 enthusiastic students for the workshop. The morning session mainly focussed on the theory concepts followed by a hands-on session in the afternoon.

CODING CLUB

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focussed on the theory concepts followed by a hands-on session in the afternoon.

ACADEMIC YEAR
2019-2020

CSI FIRST YEAR ORIENTATION

Unity leads to success and the members of CSI have done it with a lot of effort in a very less time. Around 51 students of first-year CS reached the hall by around 4:45 pm and the programme was started by 5:00 pm. In this programme, CSI Student Branch Counselor and CSI student representatives gave brief information about the benefits and also interacted with the students. Then it was the time for the activity session and students were divided into groups with the help of an activity. There were five groups containing around 10 people each. First, there was an ice-breaking session in which all of them were asked to say their group members' name and their own name such that one person says his name and the next person sitting near him the group that finished first was given points. In the second activity, each group has to draw something which represents a spot in the college and the other groups should guess it and three clues and 2 to 3 minutes were given for each picture. In the third activity, each group had to say technology-related words from A to Z. At the end, two students shared their view. Their feedback was highly positive and many were keenly interested in joining CSI.

Computer Programming Familiarisation Classes conducted by CSI SB TKMCE

The sophomore members of CSI SB TKMCE took up the initiative to offer classes on the basics of Computer Language and Programming to fresher students with special care given to those who, because of their Biology background didn't have the wherewithal to delve into Computer Science during their high-schooling.

The main aim of such an initiative was to bring about confidence and a sense of comfort with the programming languages and to inculcate a coding culture within them. Something that will go on to tremendously help them within their respective field. The classes were held after college hours, within campus premise, every day. They were taught basic programming principles and were given insight into the C language. The tutors put in a formidable amount of effort to make sure that the classes didn't alienate the newcomers but at the same making it interesting and challenging for students of Computer Science background so that it could help as a refresher course for them too. The tutoring helped students to really dissect the logic behind every code and create a solid underlying framework that they can further progress upon in the coming years.

The fresher students were also very interactive and keen on questioning and challenging the concepts taught within these classes so as to help themselves gain great acumen on the basics of Computer Science and Programming.

Prof. R. Venkitakrishna Iyer Memorial Award for Arjun M.S.

Mr. Arjun M.S of Tkm College of Engineering, Kollam was awarded with Prof. R. Venkitakrishna Iyer Memorial Award for his excellent performance in B.Tech (Computer Science and Engineering) under APJ Abdul Kalam Technological University, during the academic year 2018- 2019.

Computer Programming Familiarisation Classes (3 September 2019)

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QWERTY- An Idea Presentation Competition (30 October 2019)

QWERTY, an Idea Presentation competition was conducted by the CSI SB TKMCE as an opportunity to cultivate new ideas. The participants brought up a variety of futuristic developments that could define the "smart" in a smartphone. Ideas out of the ordinary were brought into the tech field, and the gap between imagination and reality was further thinned out. It was extremely challenging to choose the best out of them all. But Tapan Manu, a second-year student, and a CSI member came up with an idea that was worthy of the grand prize of ₹500. Even though a winner had to be chosen, all the other ideas were truly remarkable and CSI applauds them all.

VR Game (06 - 08 March 2020)

Everyone likes games. Games are more fun when we have a realistic experience. For the college techno-cultural fest, HESTIA 2020, CSI SB TKMCE organized a VR game. The goal was to cross a bridge without falling. It was one of the main attractions of the event with a large audience.

ACADEMIC YEAR
2020-2021

LOCALHOST – Online Tech Fest (07 to 20 August 2020)

The present situation of the pandemic is interrupting our normal life. Slowly things are switching to the virtual space. CSI SB TKMCE organized an online tech fest. There were one workshop and four competitions. There were nearly 500 registrations.

LOCALHOST – Blockhain Workshop (7 August 2020)

CSI SB TKMCE in association with Kerala Blockchain Academy conducted a workshop on blockchain. The workshop was divided into two sessions. The morning session began at 9:30 am and went on till noon. Topics on introduction and history of bitcoin, cryptographic concepts, digital signature for blockchain, features, use case, and adoption were covered. The afternoon part was a one and half hour hands-on session on Remix IDE, Metamask, and Ganache from 2 pm to 3:30 pm.
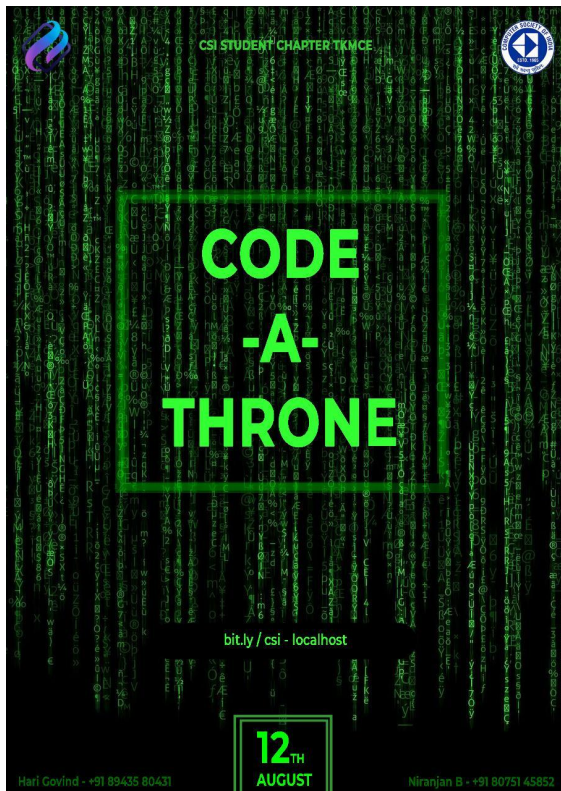
LOCALHOST – Pro Googling Competition (7 August 2020)

Progoogling is a competition to decode the given puzzle and google the answer effectively within the given time. It was one of the key attractions of the fest, with the largest number of participants.

LOCALHOST – Code-A-Throne (12 August 2020)

Code-A-Throne was a coding competition conducted as part of the fest. Students were given questions of different difficulty levels and were asked to give programming solutions within the time limit. There was a strong competition as the winner will be crowned the king of coding.

LOCALHOST – Techno Scrawl (14 August 2020)

Techno Scrawl was a technical article writing competition. The topic given was "How technology can be used to combat COVID-19?". Students were creative in crafting the article. The best article was selected based on the content, originality, and practicality of the ideas.

LOCALHOST – Exposition (20 August 2020)

Exposition was a project presentation competition. It was held in two rounds. First-round was to submit the abstracts of projects that are related to computer science fields. Then the top 5 shortlisted teams were allowed to present their projects online in front of the judges. The best project was selected based on the creativity, social relevance, and practicality of the project.

Special Interest Group (23 August 2020)

Different students will have different areas of interest. CSI SB TKMCE decided to organize students based on their interests. Thus we created special interest groups for different topics like programming, web development. Discussions and doubt clearance done in these groups.
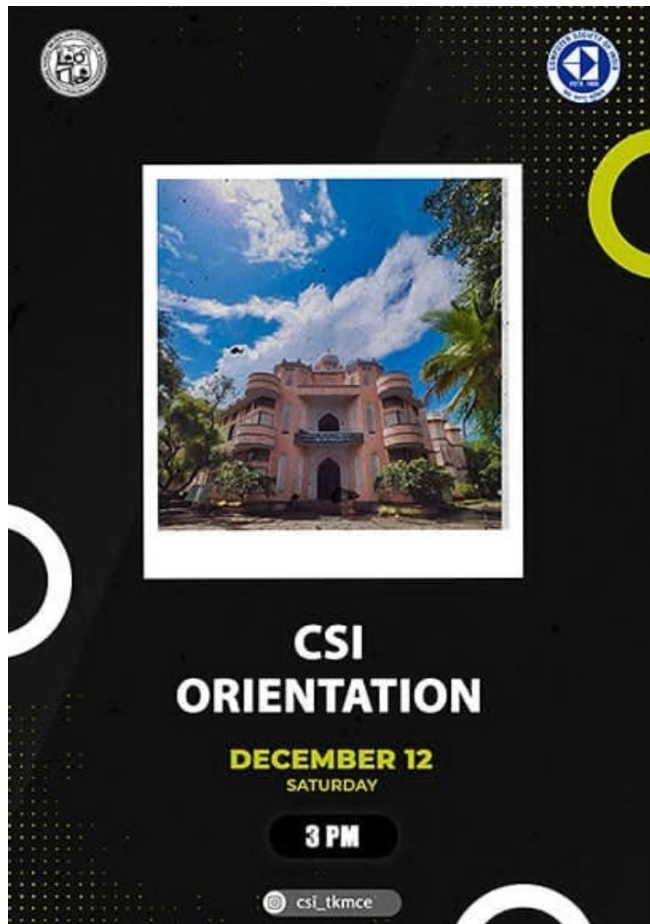
Prof. R. Venkitakrishna Iyer Memorial Award for Laveena Herman, Merin Shaju K. and Rinoy Kuriakose (25 August 2020)

Ms. Laveena Herman, Ms. Merin Shaju, and Mr. Rinoy Kuriakose of Tkm College of Engineering, Kollam was awarded Prof. R. Venkitakrishna Iyer Memorial Award for his excellent performance in B.Tech (Computer Science and Engineering) under APJ Abdul Kalam Technological University, during the academic year 2019- 2020.

CSI FIRST YEAR ORIENTATION (12 December 2020)

An orientation for the first-year students was arranged for 12 December 2020. The major focus of the orientation was to introduce the newcomers to CSI and the benefits of joining CSI. After the introductory session, an ice-breaking session was conducted through Discord.
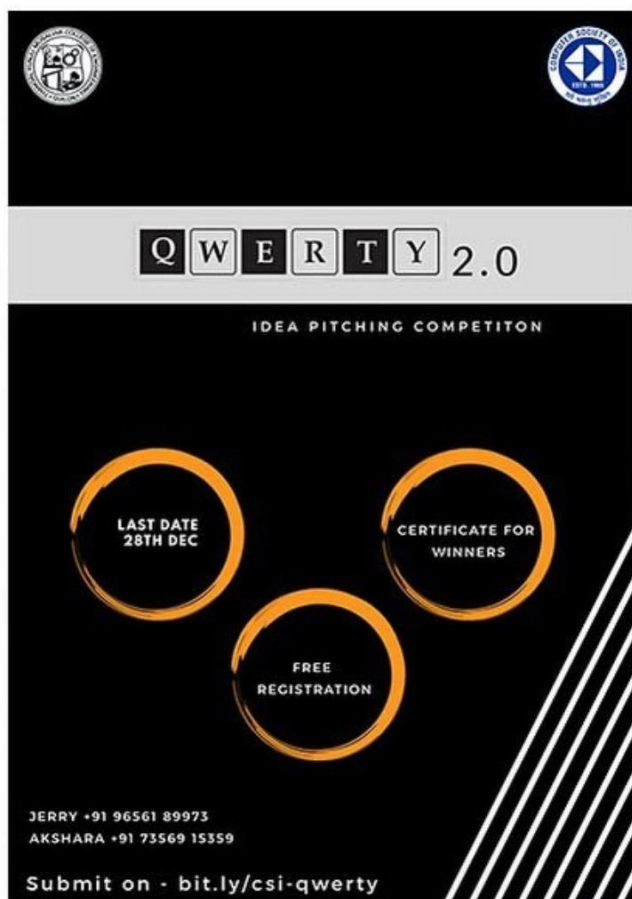
C Programming 101 (17 Decemeber 2020)

CSI SB TKMCE conducted an introduction to C Programming for students from non-computer science backgrounds in the first year. The events included topics from very basics. The topics explained in detail. The goal was to remove the fear of programming in students and giving a general introduction to programming.

QWERTY 2.0- An Idea Presentation Competition (28 December 2020)

The second edition of QWERTY was conducted. This time the problem statement was "How can we use technology to assist in the distribution of COVID-19 vaccines?". Out of several entries, Haneen Mohammad of the first year was declared as the winner. Sahana Jabin and Mikhel V Kuttickal were declared first runner-up and second runner-up respectively.

A Walk Through CSI (21 April 2021)

Conducted a webinar on the benefits of CSI in association with CSI SB GECBH. Dr Achuthsank S Nair, Chairman of CSI Trivandrum Chapter, Dr Biji C L, Chairperson of SAC Trivandrum Chapter, Ms Josna V R, Branch Counsellor of GECBH were the notable speakers. Student members of CSI SB GECBH also shared their experiences. It was mainly focused on freshers.

LOCALHOST – Online Tech Fest (24 April to 1 May 2021)

The present situation of the pandemic is interrupting our normal life. Slowly things are switching to the virtual space. CSI SB TKMCE organized an online tech fest. There were two workshops and three competitions. There were nearly 600 registrations.

React Js Workshop(24 April 2021)

CSI SB TKMCE conducted a workshop on React Js as a part of LocalHost Techfest 2021 on 24 April 2021. The workshop also marked the official inauguration of LocalHost 2021 by Dr Ansamma, HOD Computer Science and Engineering.

The workshop got an overwhelming initial response and seats filled up quickly. The workshop was handled by Milan Shah, a student at TKM College of

Engineering and a CSI member. The event was conducted in two sessions. In the morning session, the basics of React Js was covered and the afternoon session dealt with a hands-on session.

A total of 65 students from different branches and colleges had taken an active part in the workshop. Through the online presentation, the attendees could understand and absorb more knowledge and information regarding React Js. The event was a success in a nutshell and ended fruitfully. The session proved to be an informative and inspiring one for all participants. The whole event was pleasantly coordinated by Nithin and Jerry.

Python Workshop(25, 26 April 2021)

As part of LocalHost Techfest 2021 organised by CSI SB TKMCE, a Python workshop was conducted on 25th and 26th April via Google Meet. The event focused on providing a strong foundation on various aspects of Python.

The workshop took place over two days and was handled by Ajith PM and Risal Rasheed, students of TKM College of Engineering. After elucidating the basics of Python on the first day, Ajith handed over the session to Risal Rasheed, who took the session to even deeper levels.

The workshop was attended by 51 participants from different branches of different colleges and received positive feedback. The event covered important topics like Python basics, OOP using Python, Database Connectivity, Numpy and OpenCV. A doubt clearing session was also arranged at the end of each session.

The workshop as a whole was extremely interactive and interesting. E-certificates were provided for all active participants. The event was beautifully coordinated by Reethu and Swathy.

In short, the workshop was marked to be an exemplary one in terms of coordination, active participation of attendees and overall structure.

Enigma-Treasure hunt(24 to 27 April 2021)

Enigma was a four-day long online treasure hunt conducted by CSI SB TKMCE as a part of LocalHost techfest 2021. With a registration count of 302, Enigma became the most popular and most participated event of CSI LocalHost 2021. Every participant actively tried their best the four days and positive feedback was obtained from all the participants.

A website was developed for the same. 20 questions from different genres and styles were to be solved. Clues were provided via Instagram page and WhatsApp group. Each clue paved the way to the next one and participants thoroughly savoured decoding the hints.

Enigma paved the way to boost thinking and logical reasoning skills. It was a fun event for the participants. The event was well coordinated and organised.

The first one to complete all the challenges was declared as the winner. Gautham Karun from the School of Technology and Applied Sciences, Kottayam was the first one to solve all the riddles. A cash prize of Rs.500 was awarded to the winner.

Code-a-throne(28 April 2021

CSI club organized an energizing coding competition Code-a-throne as part of the Localhost Techfest 2021. This program was conducted in order to brush the skills of the coders as well as to enhance the competitive coding expertise of the students.

The competition was conducted in Hackerrank and consisted of five questions, ranging its level from easy to hard. The greatest challenge for the participants was time management as they were required to complete the competition within two hours. This demanded fast-paced coding and accuracy from the participants, a subtle quality that has to be equipped for a bright coding future. The logical thinking of the participants also had a great say in exhibiting their competitive coding skill in this competition.

In a nutshell, the CSI club witnessed the active participation of 128 contestants and the organization of the competition was highly commendable. Winners were

finalised on the basis of points collected by participants. The first prize was bagged by Hari Krishnan, from CET, Trivandrum and the second prize by Adithya Benoy, from SCTCE, Trivandrum. Cash prizes worth ₹500 were provided to the proud winners. The competition proved to be fruitful with the sincere participation of the contestants and neat organization of the competition.

Exposition(5 June 2021)

Exposition, a project presentation competition, was organized by CSI SB TKMCE, as a part of LocalHost Techfest 2021. The participants could compete individually or via a group with a maximum limit of 3 members and they were free to choose their topics of interest in the field of Computer Science and submit their abstracts within the mentioned time.

This competition was conducted in two phases. In the first phase, the participants were required to submit their abstracts within May 1, 2021, and the first phase witnessed the participation of 15 teams. After the detailed analysis of

abstracts of the 15 groups, 5 of them were successfully selected for the second phase.

All the five teams were required to present their projects through a google meet and the presentations were examined thoroughly. The first prize was bagged by Tapan Manu, Sreejith A, Sujith V I, who outstood the other teams with their " Electronic Voting Machine" idea presentation. A cash prize of Rs 1000 was awarded to the winners.

In short, the overall competition conducted by the CSI club was effective in terms of unveiling the ideas of participants and providing a platform to expose their talents.

Placement Preparation

Smart learning is better than mugging up too many theories. As the placement opportunities came closer and the tension among the students increased, CSI TKMCE organized a set of events as part of

their major event: Placement Preparation. This event was exclusively for CSI members.

Gaining skills is necessary. However, converting those skills into real-world applications is the most important and this is what the industries and companies search for inside an aspirant. The main objective was to give the participants a basic idea about the concepts and type of questions that can be asked along with giving them a time-based experience. This event was completely a self-evaluation program.

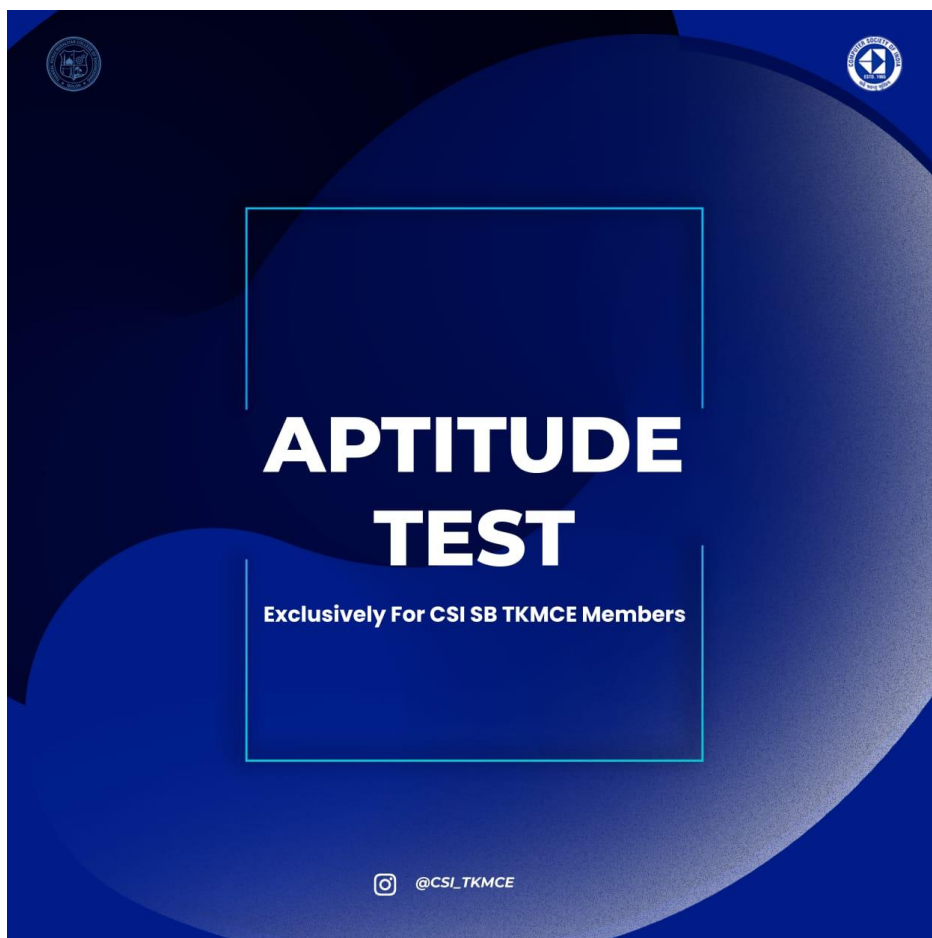This event was sub-categorized into 3 key events which are very important for placements:

· Aptitude Test

· Coding Skills

· Professional insight on how to approach placement offers

1. APTITUDE TEST:

Aptitude tests were conducted every week for CSI members. The main objective was to test their aptitude skills and the time taken to attempt a question. It also gave them an idea about the type of questions that may be asked by different companies. The questions were taken from previous question papers. This event was coordinated by Mr. Amal Nath and Ms. Meenakshi Nair

along with their team of volunteers: Mr. Arun B Chandran, Ms. Devi Binoy, Mr. Surya, Ms. Mekha and Mr. Tony Augustine.

The quiz was created with the help of Google forms and the timer was set on the basis of difficulty levels. Every week, on Friday, a new quiz of 30 questions was released. The detailed answer key was mailed to every participant. Feedback was also taken from them.
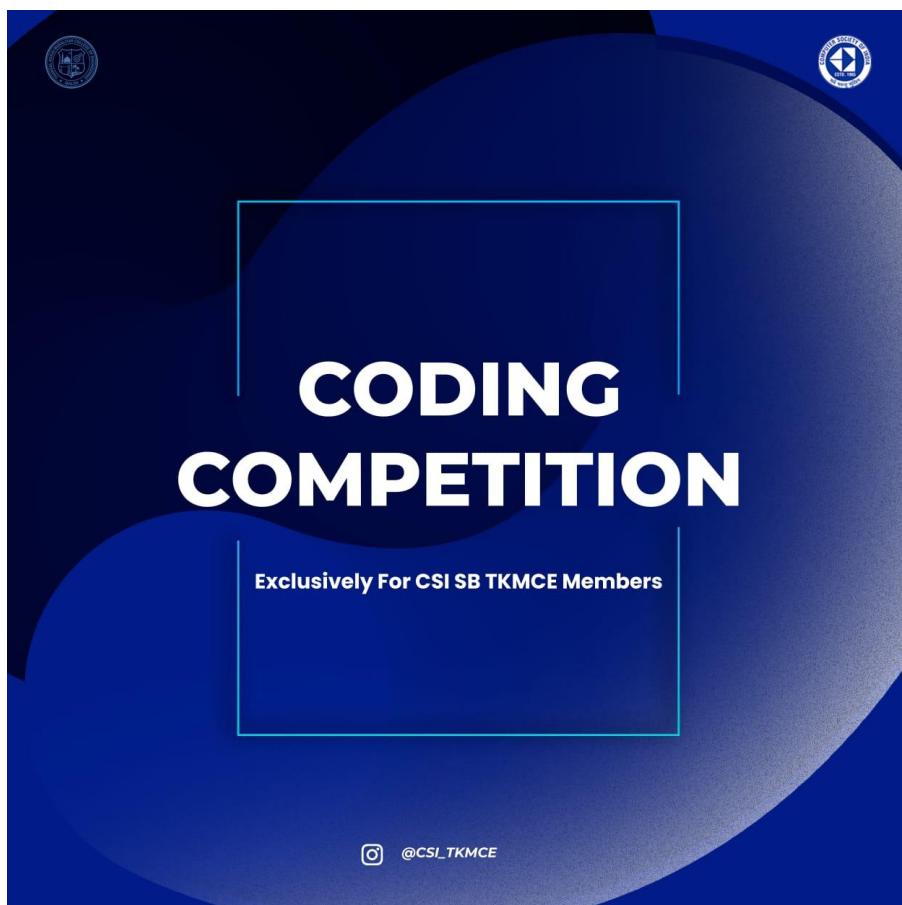

2.   CODING SKILL TEST

Just like Aptitude tests, Coding Skill Test was conducted for CSI members. The main objective of this event was to help the

participants be in touch with the algorithms and program syntax. It was conducted for practice and to train the students to code within the time duration. Hackerrank was used to upload the questions. The questions were chosen from different competitions and company interviews. This event was coordinated by a team of 7: Mr. Ajith Kumar P M, Mr. Niranjan B, Ms. Fathima Nooha, Ms. Almira, Ms. Diana, Ms. Michel and Mr. Kiran.

The questions were released every week and was active for 24 hours. Feedback was also taken from the participants.

3. Professional insight on how to approach placement offers

Topic: How to prepare for placements

Date: 26th June 2021

Time: 11pm – 12pm

The Computer Society of India, Student Branch, TKMCE conducted a talk on **How to Prepare for Placements** as a part of its Placement Training Program. The talk was presented by **Mr. Arun R Nair** the Director of Projects at Pelatro.

During the session, he spoke about the industry, the kind of life we lead in the industry. He also highlighted the importance of projects as well as the relevance of computer programming.

Last but the most important, he also gave students an insight on how to prepare for interviews by giving them a step-by-step procedure for preparing for the interviews they would be facing in the future.

The session was really informative and valuable for all the students who attended it as it helped them get a clear idea on what they should do to prepare for some of the most important tests of their life.

TechVo

Date: 19 June 2021
Time: 5:00 pm - 6:00 pm
Platform: Google meet

Blockchain is the foundational technology that powers cryptocurrencies. Its relevance in the current world is irreplaceable. As part of TechVo, a weekly talk series conducted by CSI SB TKMCE, an interesting session on Blockchain was organized. The talk was handled by Risal Rasheed and Nithin Jose.

The session proved to be an informative and inspiring one for all participants. The event was coordinated by Ameesha and Jijo Johnson.

Alan Turing Birthday

Date: 23 June 2021
Time: 4:00 pm - 4.30 pm
Platform: Google meet

As a tribute to Alan Turing, a pioneering mathematician and the father of modern computer science, CSI SB TKMCE conducted a small talk session on 23 June 2021, Wednesday. The talk was led by Almira Asif Khan, a first-year student at TKM College of Engineering. The session mainly focused on the life and achievements of AlanTuring and ended in remembrance of his greatest inventions and contributions to the field of technology.

The session as a whole was extremely interactive and interesting. In short, the talk was marked to be an exemplary one in terms of coordination, active participation of attendees, and overall structure.