CSI-SPIT

ANNUAL REPORT 2020-21

SHRI VASANT PATEL INSTITUTE OF TECHNOLOGY
Andheri (W)
Mumbai-58

Faculty In Charge: Prof. Kailas Devadkar

CORE COMMITTEE MEMBERS:

- **CHAIRPERSON**: Sarika Singh (TE COMPS)
- **VICE CHAIRPERSON**: Rishi Kaul (TE COMPS)
- **SECRETARY**: Rucha Kulkarni (TE IT)
- **HEAD OF FINANCE**: Shashank Patel (TE COMPS)
- **CREATIVE HEAD**: Luv Gupta (TE IT)
- **TECHNICAL HEAD:** Shubham Shetty (TE COMPS)
- **TECHNICAL HEAD:** Chirag Jain (TE IT)
- **HEAD OF EVENTS**: Deep Nayak (SE COMPS)
- **HEAD OF MARKETING:** Kushal Shah (SE IT)
- **HEAD OF PUBLIC RELATIONS:** Smrithi Agrawal (SE IT)

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Subcommittee Members:

- Marketing Team
  - Samkit Shah (SE COMPS)
  - Oindrella Ghosh (SE EXTC)

- Events Team
  - Kashish Jain (SE COMPS)
  - Keshav Thosar (SE EXTC)
  - Jai Joshi (SE IT)

- Tech Team
  - Bhavya Shah (SE COMPS)
  - Mihir Nikam (SE IT)
  - Ameya Ranade (SE IT)

- Creatives Team
  - Shria Srivastava (SE IT)

Coordinators:

- Omkar Rane (FE COMPS)
- Keyur Pancholi (FE COMPS)
- Aditya Kharote (FE COMPS)
- Jai Patel (FE COMPS)
- Vidhita Jagwani (FE COMPS)
- Pranati Bharadkar (FE IT)
- Rahul Shukla (FE IT)
- Sumedha Zutshi(FE IT)
- Aaditya Mehar (FE IT)
- Aditya Narayane (FE EXTC)
- Aarnav Joshi (FE EXTC)
- Tanya Anupam (FE EXTC)
- Kevin Xavier(FE EXTC)
- Vedang Ranmale (FE ETRX)
- Harshita Jogi (FE ETRX)

Aim

We are the C.S.I. Student Branch of Sardar Patel Institute of Technology. Formed in 2009, CSI-SPIT is an altruistic society in college initiating workshops, events and seminars to explore the cornucopia of information other than the regular curriculum offered by the university.

Objectives

As part of our endeavour to bring together and assimilate various aspects of technical and non-technical education, a number of seminars and workshops are conducted by professionals imparting knowledge to the students of the college. We also encourage member students to organize events by themselves so that it imbibes in them the skills of management, self-confidence and helps to exchange views and information, learn and share ideas. We at CSI-SPIT aim at exploring the acme within every individual so that they can realize their dreams.

Outcomes

As a result of our efforts, over the last 11 years, we have successfully created a committee of students that are enthusiastic and driven by the ambition to explore. We have positively impacted the members of CSI-SPIT through our workshops, seminars and non-technical events and fostered the spirit of helping one another learn something new.

EVENTS 2020-21

Date: 21/08/2020

Code Housie

Competitive Programming has been one of the cornerstones of the field of computer science and is slowly turning into a prerequisite for almost all Engineering students. In an attempt to help the students of S.P.I.T. get familiar with competitive programming but at the same time make the event interesting, fun and educational, CSI S.P.I.T. hosted its first event for the current academic year. This event consisted of a set of special Housie tickets which were distributed among all the participants. Each Housie ticket consisted of random numbers and each number was mapped to a problem statement. Whenever any participant successfully solves a problem statement, the corresponding number on the ticket could be ticked off. Just like a traditional Housie game, different prizes were allotted to participants who could complete an entire row of their ticket. This event witnessed a very good participation from all branches of the second year who were especially impressed by the idea of a fun technical event. The winners were awarded with cash prizes and certificates.

"This was by far one of the best ways to learn competitive programming and have fun at the same time!"

- Kushal Shah, one of the participants of the event.

The event was a huge success and marked a good start of CSI S.P.I.T's academic year.

Introduction to Hackathons - A Webinar

Date: 20/09/2020

Hackathons have become the talk of the town in recent times and many Hackathons have helped numerous participants brainstorm their way through a problem statement and produce an actual usable solution in a limited period of time. However not everyone is familiar with the concept of a Hackathon, especially students who are in the initial years of their engineering course. In order to ensure that all the college students are familiar with the idea of a Hackathon and at the same time know how to perform efficiently in any Hackathon, CSI S.P.I.T organised the Hackathon Webinar. This webinar consisted of a panel of speakers namely Siddhesh Jadhav, Bhavya Meghnani and Darshan Patil who are Hackathon winners and have cracked multiple Hackathons. The speakers of this session guided all the participants by explaining each and every stage of a Hackathon. With the help of their experience, they provided useful insights to the participants and were able to convey the importance of participating in Hackathons and managing time and resources efficiently. In order to eliminate any kinds of doubts in the minds of the participants, the speakers were also given a sample problem statement where they went through their thought process and covered the ideation part of the problem statement followed by a brief idea on how they would manage their time and distribute work in their team. The webinar witnessed a strong participation of 80 attendees and was applauded by the participants who were able to get a clear idea about Hackathons through this webinar.

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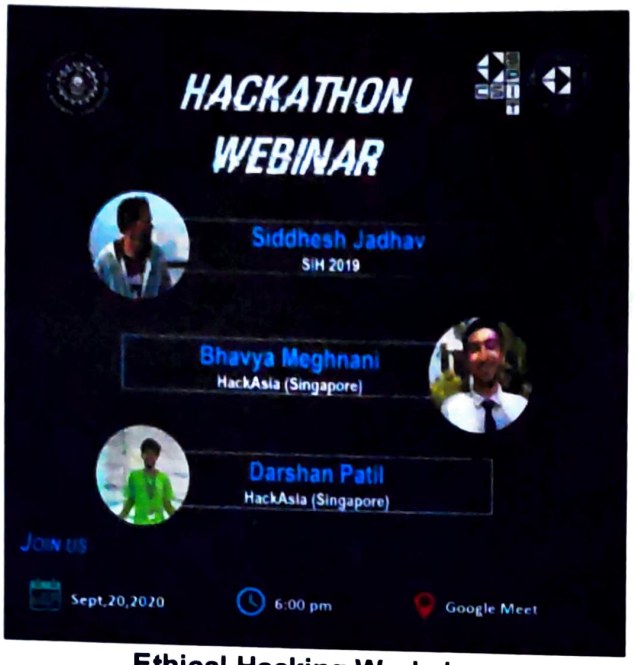

Ethical Hacking Workshop

Date: 10/10/2020

Cyber Security is one of the most important points to consider in a world where almost everything can be available at our fingertips. Keeping this in mind CSI S.P.I.T. organized the ethical hacking workshop led by Luv Gupta on 10th October. The workshop started by informing all the participants of the prerequisites required to make the best out of the workshop. The participants were first informed about the importance of Cyber Security and how it is becoming one of the major concerns of big tech giants. To expand on this topic, the speaker explained that the best way to tackle this issue is to put ourselves in the shoes of a hacker and learn what he or she is capable of. To demonstrate this point, Luv started a hands-on workshop wherein all the participants were guided through a step by step tutorial on how to gain remote access to any Android mobile phone. This demonstrated the vulnerability of the modern smartphone and how the privacy of any victim can be easily violated. Lastly the speaker highlighted important points covered in the workshop, especially the ones where the participants were informed about all the basic precautions they can take to protect their privacy. The workshop was a great success and witnessed a participation of 70 interested attendees who had a better understanding of the importance of cybersecurity by the end of the workshop.

SE Hackathon

Date: 06/12/2020 - 07/12/2020

The main purpose of the SE Hackathon organised by CSI S.P.I.T. was to help the Second Year students of the college get an experience of how a Hackathon works and there was no better way to do that than participate in one. Keeping in mind that this Hackathon would be the first Hackathon of a lot of students, CSI S.P.I.T. designed problem statements focused specifically in domains that were well adapted to the students.

The Hackathon was scheduled on the 6th and 7th of December and witnessed a participation of 28 teams from the Second Year of S.P.I.T. which included all branches and had a team size of 3-4 students per team. The problem statements were released a day before the Hackathon in order to help the students and give them time to ideate their solutions.

The Hackathon was hosted on the AirMeet Platform and was the first virtual Hackathon organized by CSI S.P.I.T. The event was started with the humble words of Prof. Kailas Devadkar, the Faculty Coordinator of CSI S.P.I.T. This was followed by the commencement of the Coding round at 10 A.M. on 6th December. Two mentor rounds were scheduled on this day, wherein experienced seniors (Third Year students) and

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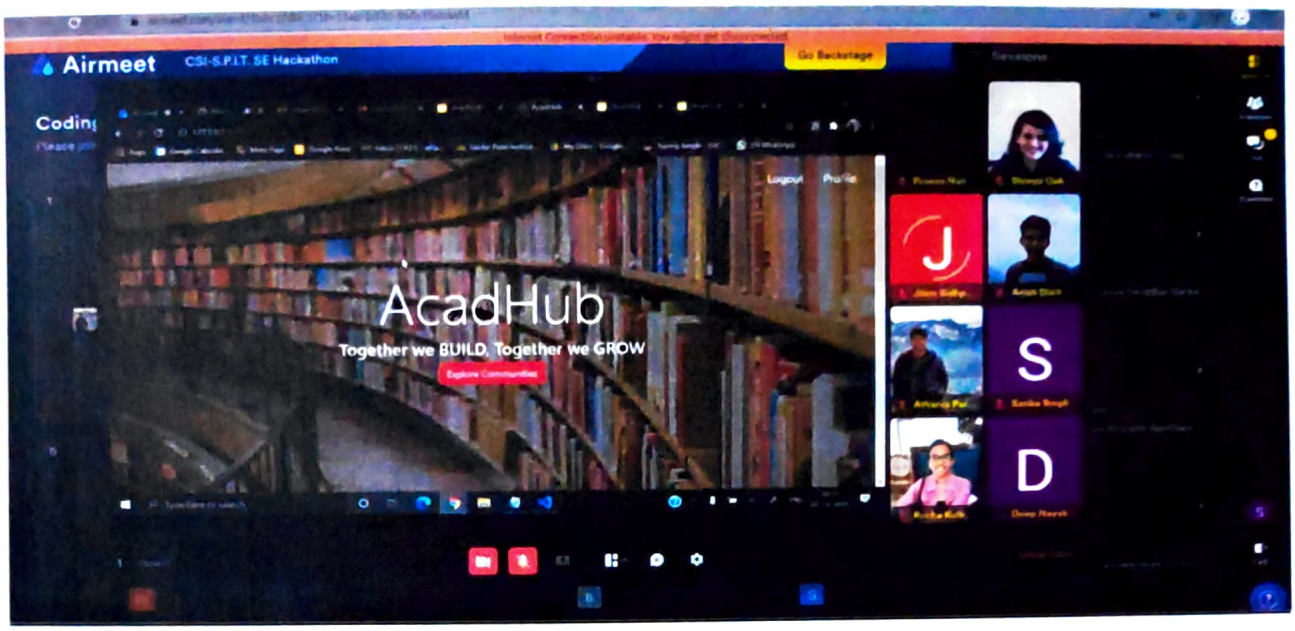
Hackathon winners personally went through the progress of every team and guided them on their future plan for the Hackathon.

The CSI S.P.I.T. team was constantly available for any doubts or difficulties that the SEs could face. The Coding round ended at 10 A.M. on 7th December and was followed by the presentation of different projects for the round 1 of judging. In this round, all the teams were given a chance to present their proposed solution and product in a stipulated amount of time and 5 teams out of the 28 teams were selected for the second and final round of judging.

In this round all teams presented their solution to a panel of judges and tried to explain the feasibility of implementation of their ideas in the real world. After a competitive round of presentations, team Confusion was declared as the winner of the SE Hackathon. The event was a huge success, and all the participants appreciated the initiative taken by CSI S.P.I.T. to help the second year students grow.



S.P.I.T. Hackathon

Date: 13/02/2021 - 14/02/2021

CSI S.P.I.T. organized the first virtual S.P.I.T. Hackathon which is a National level Hackathon organized every year by students of Sardar Patel Institute of Technology, Andheri. Around 200 teams from across the country applied for participation in this Hackathon and after a tough round of shortlisting, 65 teams were selected for the Hackathon. Teams from all over the country had participated in the 24 hour Hackathon which was held on 13th and 14th February, 2021.

CSI S.P.I.T. utilized the AirMeet platform to host the Hackathon in a virtual environment and also made use of WhatsApp groups and Discord channels to communicate with all the participants. The problem statements for the Hackathon were released on the eve of the Hackathon and a preference form was also floated along with the list. Based on the availability of problem statements, the teams were allotted different problem statements. The event was kickstarted with the warm greetings of Rishi Kaul, the Vice Chairperson of CSI S.P.I.T. followed by an enlightening speech by Prof YS Rao, the Vice Principal of S.P.I.T. This was followed by an informative and motivational speech by Priyadarshan Patil , the COO of Neebal Technologies. He informed all the participants about the technological achievements of Neebal Technologies and how it is the right place for any aspiring computer engineer. This was followed by a welcome speech by Sarika Singh, the Chairperson of CSI S.P.I.T, where she declared the event open.

The Problem statement allotment was revealed at 9:30 A.M. and the participants started coding at 10:00 A.M. The CSI S.P.I.T. team was available on all communication platforms, 24x7 for any doubts or concerns of the participants. Two mentor rounds were

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held in the course of the Hackathon and in these rounds experienced professionals from Neebal Technologies guided the participants and provided clarity on any doubts they had. After an exhausting 24 hour coding round which ended at 10 A.M. on 14th February, the participants were asked to upload all of their source code on GitLab. This was followed by the first judging round wherein all teams presented their work to the judges and answered any questions asked by the judges. Out of 65 teams, 13 teams qualified for the second round, where all the teams presented their solution in front of a panel of judges. After a very competitive round of presentations, the winners of the Hackathon were declared at 8:00 pm on 14th February and team Kepler-452b bagged the first place in the Hackathon.

The top 3 winners were awarded with cash prizes of

Rs. 35,000 – 1st Place

Rs. 25,000 – 2nd Place

Rs. 15,000 – 3rd Place

These cash prizes were given along with goodies provided by Devfolio and GiveMyCertificate and Certification Vouchers from Sybgen Inc.

The S.P.I.T. Hackathon was a huge success and the CSI S.P.I.T. team looks forward to holding more such events in the future.

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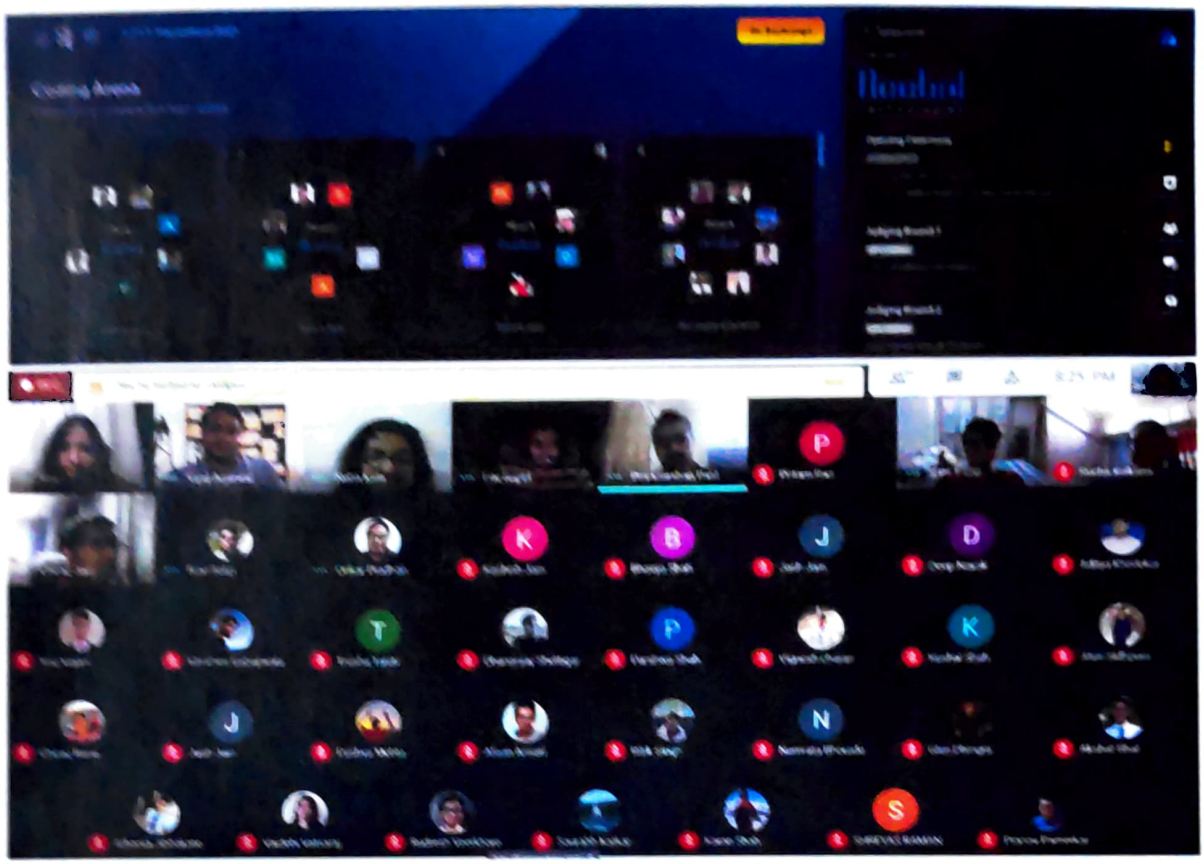

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C Workshop

Date: March to May 2021

Stepping into an engineering college can be an overwhelming experience. With new people around and multiple avenues to explore, students often find themselves confused. To help ease this transition, CSI believes in helping out first-year students through their annual C-workshop. Keeping up with this tradition, the workshop was held in this academic year as well.

The idea behind this workshop is to help students get familiarized with programming. Many first-year students do not have programming experience and require more attention and practice to learn. Our second-year subcommittee members take up this task and organize sessions to teach their juniors programming in C language. In these sessions, they try to cover the syllabus of SPA and hold doubt solving sessions. Assignments are also provided for additional practice.

These workshops have proven to be beneficial, not only because of more attention to each student, but also because they encourage the juniors to talk to seniors, who can guide them from their experience, and learn from them.

Workshop Structure-

This year, 6 sessions were held. The sessions were held over the weekends. Each session was attended by an average of 50 students, and at the end of each session, doubts were cleared and next week's assignment was given. The topics covered included-

- Datatypes and operators
- Branching and iterative structures
- Functions
- Arrays
- Strings
- Pointers
- Structures
- Recursion

These topics were covered in the sessions that lasted for 2 hours. 3-6 subcommittee members (second year students) were always present to teach and clear the doubts of the attendees.

The first-year coordinators played a big role in bringing people to the workshop and conveying the needs of the students. This helped us tailor our program to suit the needs of the students.

This year, having gone virtual for the first time, for the entire academic year 2020-2021, we introduced a lot of new events like the SE Hackathon, the Hands-On Ethical Hacking workshop. Our flagship event - The SPIT Hackathon was a grand success. The Core team for the year 2020-21 is proud to have overcome all challenges posed by the pandemic and is glad to have been a part of this journey!

We leave the reins to the incoming committee members for the year 2021-22 to take CSI- SPIT to greater heights!

Signing Off,

Team CSI-SPIT, 2020-21.

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