VESIT

Connect

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Mr. Mrugendra Vasmatkar (Assistant Professor, Dept. of Electronics and Telecommunication Engineering)

Mr. Gopalakrishnan N (Assistant Professor, Dept. of Instrumentation Engineering)

Mrs. Asma Parveen I. Siddavatam (Assistant Professor, Dept. of Information Technology)

Driving Aatma Nirbhar Bharat Abhiyan with the Swadeshi Microprocessor Challenge

-Tanya Dubey

Under the **Aatma Nirbhar Bharat Abhiyan**, the **Minister of Electronics** and **Information Technology**, Government of India, in collaboration with **C-CAD, IIT Madras**, **MyGov** and **MakerVillage** organised the **Swadeshi Microprocessor Challenge - 2020**.

There is a growing need for Swadeshi Computer Hardware, that shall be part of every Smart Device deployed in different domains. It is not just the cost or embargo that drives the need for Swadeshi Computer Hardware, but also the dependence on external vendors, long term sustenance, quick enhancements to suit the ever-growing requirements, and most-importantly Security, which drives the Aatma Nirbharta in Hardware domain, as the only option.

Under Microprocessor Development Programme spearheaded by MeitY at C-DAC, IIT Madras and IIT Bombay, not only the family of industry-grade microprocessors has been designed from the scratch but also the computer hardware ecosystem around them has been evolved as a step towards meeting India's future requirements.

To provide further impetus to the strong ecosystem of start-ups, innovators & researchers in the country, MeitY announced Swadeshi Microprocessor Challenge made available by IIT Madras and C-DAC, powered by FPGA Boards of XILINX which is supported by CoreEL Technologies, to promote a culture of innovation and entrepreneurship.

By taking up complex designs in the country and innovating frugal solutions around home-grown processor ecosystems, it enabled the participants to cater to both global and domestic the requirements. The incubation support to the win-

Dr. P P Vaidya (Head, Department of Instrumentation)

ning teams was provided by an Incubator located at their geographical proximity coordinated by Maker Village. This is a step towards achieving self-reliance in the hardware domain.

"It has been an overwhelming experience to have been selected among the top 100 teams. Currently, we are working on Shakti Vajra and our project is called SwadeshiBMS. Shakti has 3 variants Pinaka, Parshu and Vajra, with Pinaka being weakest and Vajra being the strongest processor. We are working on making a battery management system for electric vehicles (bikes or cars). It is the most integral part of any EV and currently there is no one working on the same. Startups just import it from China. So we are developing a made in India BMS on a made in India processor.", explained Shubham Singh (D19A), a member of the team under the mentorship of **Mr. Mrugendra Vasmatkar** (Assistant Professor, Dept. of Electronics and Telecommunication Engineering)

Three teams from VESIT were selected in top 100 out of 6000 teams in Swadeshi microprocessor challenge-2020. Each semi-finalist got funded up to Rs. 100000/- (one lakh) for the creation of start-up and project expenses. The three teams from VESIT who secured a semi-finalist berth were:

Team 1:
1. **Dr. P P Vaidya** (Head, Department of Instrumentation)
2. **Mrs. Asma Parveen I. Siddavatam** (Assistant Professor, Dept. of Information Technology)
3. **Mr. Ajit T Patil** (ME Instrumentation)

Team 2:
1. **Mr. Mrugendra Vasmatkar** (Assistant Professor, Dept. of Electronics and Telecommunication Engineering)
2. Paarth Arkadi (D16A)
3. Vaibhav Ghaisas (D16A)
4. Amogh Gajre (D16A)
5. Shubham Singh (D19A)

Team 3:
1. **Dr. P P Vaidya** (Head, Department of Instrumentation)
2. **Mr. Gopalakrishnan N** (Assistant Professor, Dept. of Instrumentation Engineering)
3. **Mrs. Lekshmi Ajesh Kaimal** (Senior Research Fellow, Dept. of Instrumentation Engineering)

(L-R) Mr. Ajit T Patil (ME Instrumentation), Mrs. Lekshmi Ajesh Kaimal (Senior Research Fellow, Dept. of Instrumentation Engineering)

L-R Top-Bottom: Vaibhav Ghaisas (D16A), Shubham Singh (D19A), Paarth Arkadi (D16A), Amogh Gajre (D16A)

Bienvenue, Freshers!

-Mihir Pamnani

Every year, a new batch of ambitious young minds steps into our college premises with scores of aspirations about who they want to become. Their sheer presence and thought set a trail of whimsy amongst the crowd. Novel ideas, unique perspectives rejuvenate the conversations around. Seniors approaching new kids with college insights, freshers hunting for acquaintances to up the coolness quotient, it's all a young hunky-dory affair. The ambience of thrill and the unprecedented is parallel to none. And to further encourage the exchange between the students divided by years, it was only last year that the varsity introduced '**Induction Programs**' - an initiative determined to help freshers transition to college smoothly and to adapt quickly to what's and how's of novelty around.

Keeping up the streak, Student Council, this year executed numerous fun events and workshops for a span of two weeks, making sure each and every new student of the Engineering and MCA program feels welcomed to this new routine. The first week - 8th to 12th February - all the councils of the Student body : Cultural, Sports, Music, SoRT conducted their events alternately keeping the freshers engaged.

Meanwhile the VESLit Circle organized their segments in the following week - 15th to 18th February with their respective - Debate, MUN, Films, Quiz divisions on the shuffle. All the events were conducted virtually via Google Meet or Zoom meetings post the afternoon lunch breaks.

Sports Council

The two major events put up by the Sports Council were namely - Sports Hunt and Workout Session. The Sports Hunt event began with Sports Secretary, Archita Malgoankar welcoming and explaining rules to all FE's. The Sports Hunt was divided into 8 stages. Each stage consisted of basic physical exercises such as burpees, pushups, crunches and squats alongside fun games such as - 'Guess the Equipment' riddles, 'Dumb Charades', 'Guess the Emoji', 'Guess the Player', 'Guess the Voice' and 'Guess the moment'. The games progressed by putting a random group of students in teams of eight in different Google Meet rooms where they were further guided by two moderators of the Sports team. Meanwhile, for the Workout Sessions, the freshers were asked to perform a set of exercises twice with the moderators, first being the warm-up, followed by Burpees, lunges, jumping
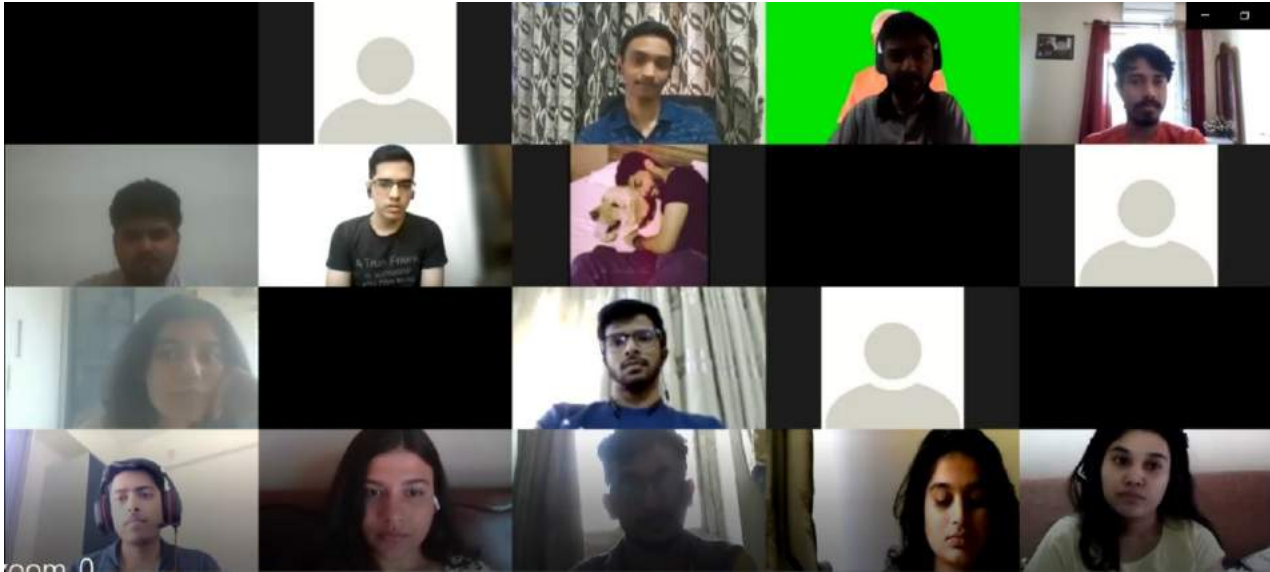

Posters for the events conducted by Sports Council

jacks, shoulder taps, planks and squats. Towards the end of sessions, moderators had a little Q&A session with FE's where general questions regarding diet, fitness, sports equipment in college were discussed.

Music Council

In an attempt to break the ice amongst students while having some fun involved, the Music Council organized - 'Danger Word'. The game was conducted on almost all days in the afternoon breaks. To begin with, the students were distributed in groups of eight in the virtual meeting and were assigned to different zoom breakout rooms. Each

breakout room, further, had two moderators to ensure a smooth functioning ahead and the students were divided in four teams each of two students. To create a welcoming ambience, the moderators had put up some ice-breaker questions on slides leading to a fun chatter amidst freshers regarding their interests and perceptions. Following that, pairs of two teams went up against each other for the next segment. For the game, each time the moderator texted one of the team members two words in a private text exchange, out of which one was to be guessed by the other team partner by understanding a one-word clue and other was the danger word

Music Council Incharges conducting 'Danger Word'

- which if guessed would've cost them a point. The segment weaved a trail of laughter and interesting guesses in rooms and students got to know each other better. After the event, all the students were addressed by Music Secretary Sahil Salian and Music Incharges and volunteered moderators for a fun chat and feedback in the main meeting.

"I really enjoyed the Danger Word and the Virtual Octaves event which was conducted by the music council in the following week. It was something which I absolutely love which is music, it was really an amazing experience. I made new friends and had such a fun time with seniors who are the absolutely sweetest people ever." said Mansi Shah (D2A).
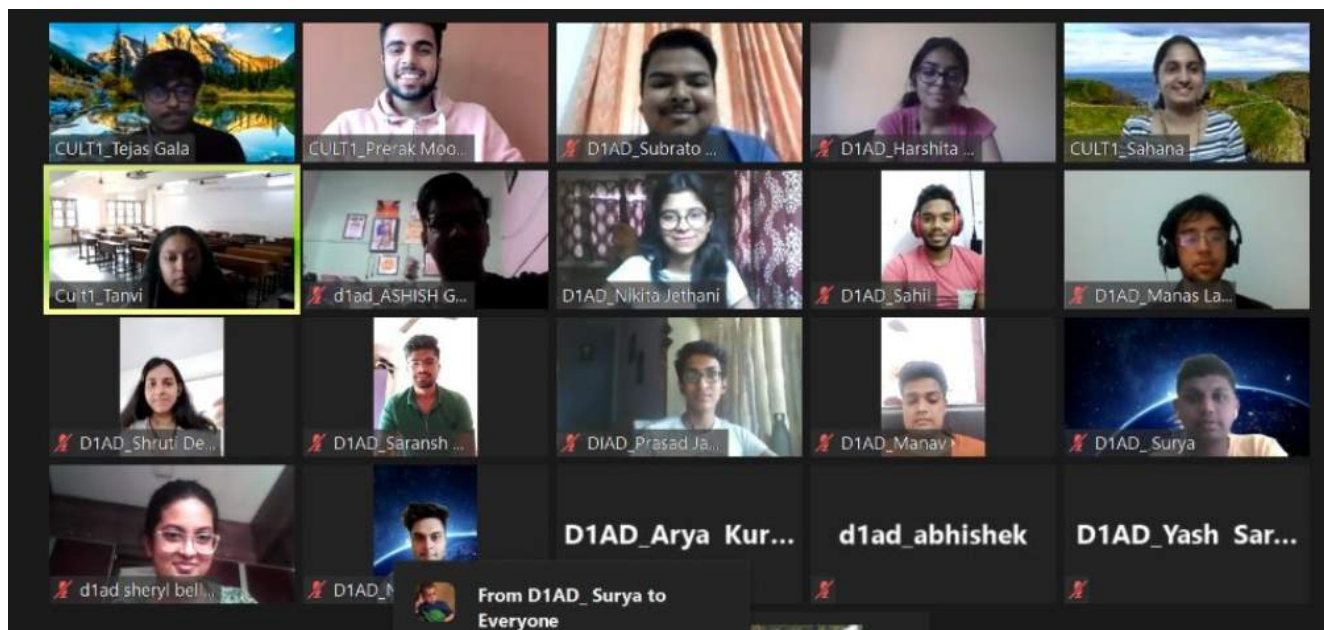
Cultural Council

The Cultural Council, which is known to draw some eyes for it's events, indeed again, to ruffle some feathers, conducted 'Spin the Wheel' - an event where students answered random questions off the board but with a twist. For the event, each class was allotted a breakout room and the segment began with a fun interaction amidst students which was initiated by the respective moderators. For each round, three random students were called upon and one out of the three was asked to lie while answering via a private text exchange by the moderator. After spinning the wheel virtually on the screen, questions such as "What's the craziest thing you've ever done?", "What's the strangest dream you've ever had" and few others were asked and the audience had to decide which one out of three on the aisle was lying. The polls were conducted with an online pollster namely mentimeter.com. The results and revelations led to a number of laughs and eye-rolls. The person asked to lie was also given brownie points, if the made up story answers had an interesting plot. After numerous rounds with the bunch of twelve questions, the event concluded with a candid chat about college and academics with Cultural Council Moderators.

SoRT Council

For the week, the two major events conducted by our Social Responsibility Team were namely - 'Think Fast' and 'Dumbate'. The events were organized alternatively on all the days. via Zoom Meetings. Now, for Think Fast, as the name suggests the students had to think fast and answer. The moderators asked some five random questions to each person in the breakout room, about anything and everything, and the freshers had to come up with an interesting and honest answer soon. The adrenaline was quite high throughout though the fun and revelations made it all worthwhile. For Dumbate, students were divided into teams. And then, each team was given a topic and an opponent team to argue against. The participants had to come ahead one by one and defend their stance with one liners until they fumble after which moderator asked them to swap, and then the next person in the team took up the spot. There were no language constraints and students were asked to freely express themselves. The winners weren't decided on content and arguments, but instead on which team ran out of words first. All in all, the events organized by the SoRT council were, indeed, delightful and thought-provoking at the same time.

VESLit Circle

The Literature Circle took up the entire following week and conducted a number of entertaining events with literary twists here and there. Two new events were organized everyday by one of the VESLit Divisions. For each event, the students were distributed in zoom breakout rooms in groups of 8-10 with two moderators.

15th February :

The events namely - 'Would you rather?' and the

Cultural Council concluding the 'Spin the Wheel' event

'Balloon Debate' were conducted wherein, for the former, two questions were asked to each student and an interactive discussion was encouraged after some interesting revelations. For the latter the eight students in breakout rooms were divided in two teams of four. Each team member was assigned a unique famous character and had to argue for his right and use of survival on the sinking hot air balloon.

16th February :

'Two truths and a lie' and 'Character DumbCha-

the students with some amusing insights about college. And the 'Guess who?' led to some fun discussions between students and moderators which stemmed from the embarrassing insights discovered during the event.

18th February :

To mark the end of Induction events, the circle organized two witty events namely - 'The Imitation Game' wherein students were divided into groups and had to enact and think upon fictional scenes between two absolutely unrelated famous charac-

SoRT Council addressing the students during the event

rades' were organized on the second day. The first event led to some interesting conversations since students guessed the lies amongst the three statements submitted by their peers. Meanwhile DumbCharades rejoiced the ambience with humor and some astonishing character guesses.

17th February :

For the third day, VESLit Circle entertained students with 'Grand VESIT Quiz' and 'Guess Who?'. The quiz certainly acted as an ice-breaker amidst

ters. The event saw the most unprecedented scenes such as Devdas and Captain America discussing love which led to such a trail of whimsy amongst the audience. While the other event was - '5-second excuses' where students had to come up with vague yet logical excuses to get out of awkward situations.

The VESLit Circle also conducted an amalgamation of events mentioned above for MCA first year students on the next Monday. All in all, the numerous entertaining events conducted across
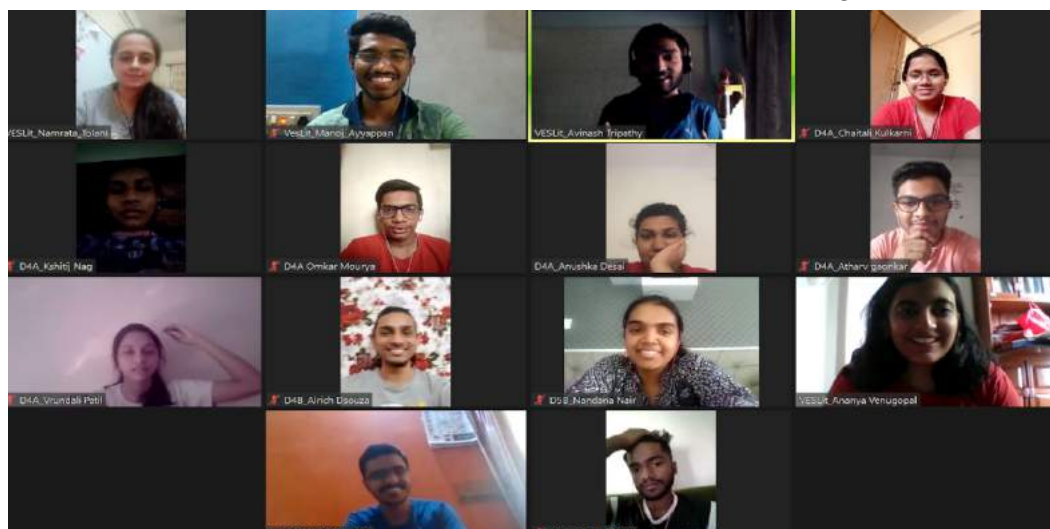
VESLit Circle Head, C V Ananya (D19A) and Deputy Head, Avinash Tripathy (D14A) interacting with students after the event

two weeks by the Student Body surely broke the ice amidst freshers, led to some amusing conversations, delightful interactions and hopefully made them feel at home with us."FE Induction events were the first and foremost set of fun activities which I experienced in college. The whole two weeks were amusing and I enjoyed a lot of the events conducted by our awesome seniors. It really made me feel that my decision of getting an admission into VESIT was worthwhile and it's going to be some amazing four years ahead." said Anuj Bagad (D2C).
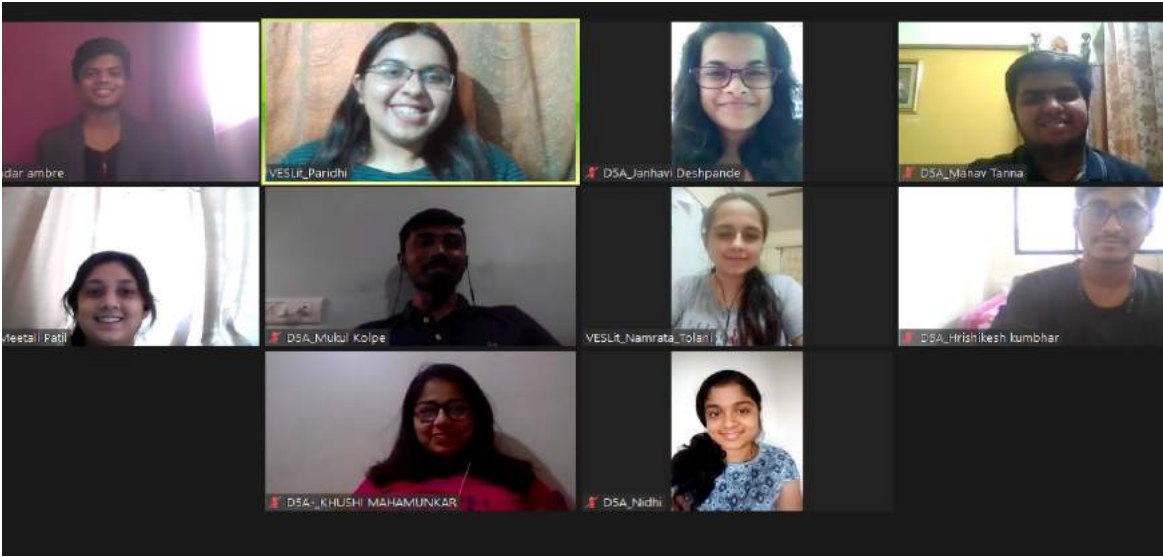
VESLit Circle Head, C V Ananya (D19A) and Deputy Head, Avinash Tripathy (D14A) interacting with students after the event

Councils

VPC Workshop : Through the Glass eye

-Kaushal Jagasia

To help students learn, enhance and understand the ideology behind the art of expressing stories through pictures, VESIT Photo-Circle (VPC) arranged a one-day online workshop on '**Basics of Photography**'. The workshop was held on 20th February 2021 at 4:30 pm on Zoom Meetings.

Chirag Kapoor (D14B) gave the introduction to the 180 participants who were enthusiastic about learning new photography concepts. **Naren Khatwani** (D17B), VPC's student in-charge, took the stage to explain the basics of using 'Manual Mode' on a camera. It was followed by **Jai Mulani** (D20) and **Gaurav Parwani** (D20) teaching the concepts of 'Exposure Triangle' and 'White Balance and HDR' respectively.

Gaurav Jagwani (D14B) and **Chirag Kapoor** (D14B) took the session forward by introducing 'Composition Techniques'. Pictures clicked by VPC members were used as examples for a better understanding of the participants. The next speaker on the list, **Aditya Bhoir** (D16B), shared his insights on the domain of 'Macro Photography'.

Speakers of the Event: (Top to Bottom, L-R) Naren Khatwani (D17B), Chirag Kapoor (D14B), Jai Mulani (D20), Gaurav Parwani (D20), Aditya Bhoir (D16B), Gaurav Jagwani (D14B)
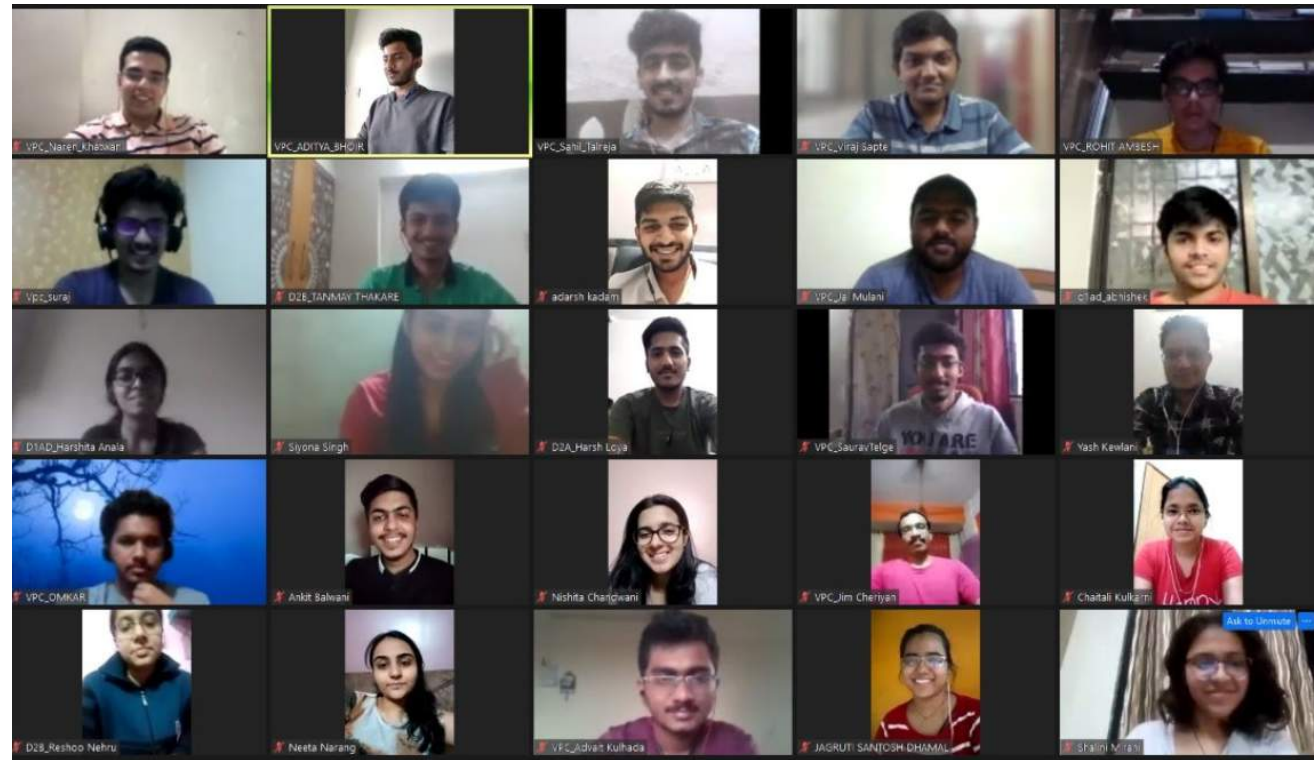
Various Composition techniques are explained by Gaurav Jagwani (D14B) with the help of pictures clicked by the PhotoCircle members

"We started a series of 'Basic Photography tips and tricks' on VESIT PhotoCircle's official Instagram handle to help everyone know more about photography in a comprehensive and intuitive approach with examples shown in the posts. The response received was astounding and it further motivated us to host a live workshop. We tried to ensure that the tips we shared were applicable in one's day-to-day life." said Aditya Bhoir (D16B), member of VPC.

In the last phase of the workshop, **Tejas Doke** (D19A) and **Sahil Talreja** (D17C) spoke in brief about 'Reflections' and 'Influencer Marketing' respectively. Students were able to gather knowledge about editing photos in various applications. **Viraj Sapte** (D16A) and **Rohit Ambesh** (D14B) were the coordinators for this event and also held a short Question and Answer session before **Gaurav Jagwani** (D14B) gave the conclusions for the day.

Virtual Octaves 2.0

-Siddhi Bhosale

With the beginning of the new semester the Vesit Music Council kept the balls rolling with their flagship event Virtual Octaves 2.0. Plethora of events conducted under it were:

Musical Misfit

This included three musical games namely Antakshari, Rapid Fire and Musical Charades. The teams for the event consisted of three members each. The first and second rounds were held on 13th February 2021, followed by the finals on 16th February 2021, for which 4 teams were selected out of a total of 28 teams that participated. The participation was open for FEs as well. The event was conducted on Zoom by hosts **Aarushi Sharma** (D10B) and **Trisha Gaur** (D9A) and streamed live on YouTube. The top two teams in this event were:

Winners: Team Euphoria (D2A)
Mansi Shah
Shrey Panchamia
Shreya Kukreja
Runner ups: Team INST (D3)
Rajnandini Verma
Lakshmi Sundaram
Tanvi Desai

Voice of Vesit

VMC's most awaited event for all the music lovers was held in two rounds. The first round was a submission round where participants had to submit their entries through a Google form, out of which 11 were selected. The selected participants had to perform live on 18th February 2021. The event was judged by **Monami Pal** (CMPN-2020) and hosted by **Raghuttam Parvatikar** (D10B) and **Yash Raje**
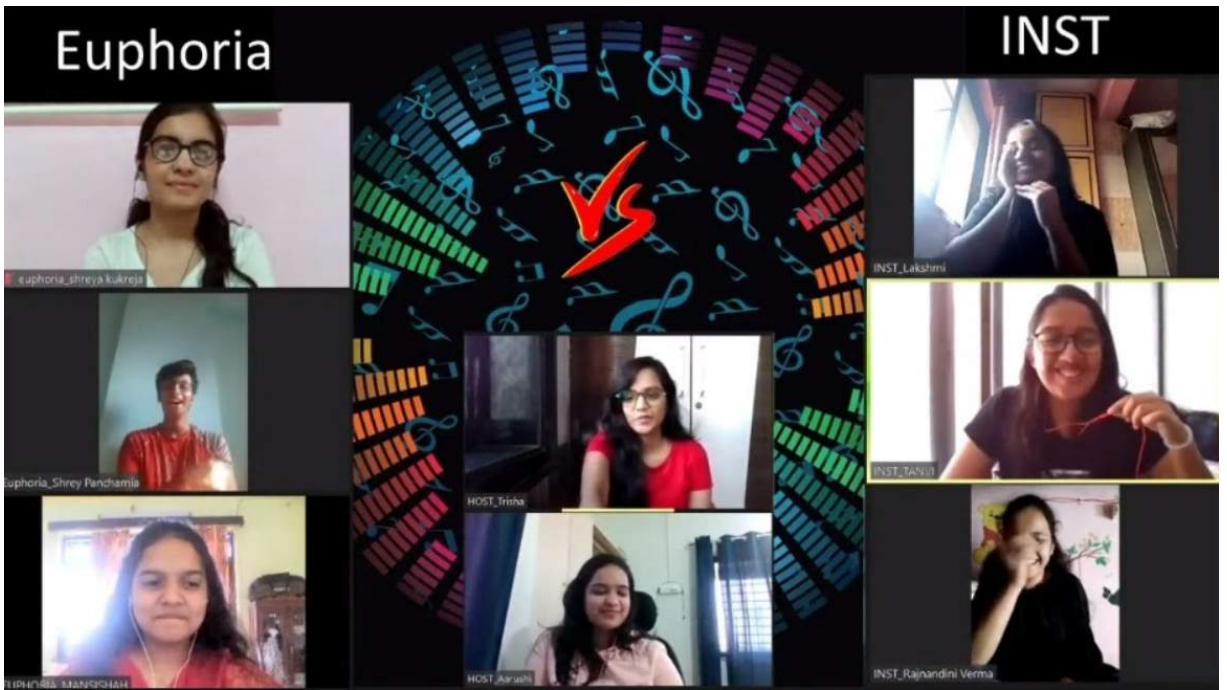
(L-R) The Winner Team Euphoria: Mansi Shah(D2A), Shrey Panchamia (D2A), Shreya Kukreja (D2A) and Team INST: Rajnandini Verma (D3), Lakshmi Sundaram (D3), Tanvi Desai (D3) along with hosts Aarushi Sharma (D10B) and Trisha Gaur (D9A)

Ek Main Aur Ek Tu

This was a duet-singing contest for students who have soulful voices and want to take this talent to the next level. This event gave contestants a chance to enjoy their time and set the virtual stage on fire. The participants had to submit their entries on Google form by 16th February 2021. There was no language bar for the singers. The time limit was 3 minutes and multiple entries with different participants were allowed.

The **winners** of this event were:
Jennifer Kumar (MCA) and Muskan Otari (MCA2)
Varun Bhatt (D14A) and Divya Singh (D11B).

Instrumental Face-off

In this event, the participants were required to upload a 90 to 180-second performance in video format showcasing their talents as an instrumentalist. They were also allowed to submit multiple entries with different instruments. Further, beatboxers could show their talent as a competitor as well. The contestants were judged based on their style, i.e how they show their individuality or originality in the performance, sense of scale and notes, dynamics of the performance, rhythm sense, and overall presentation.

A total of 7 participants were selected for the final round. The final round was hosted by **Yash Raje** (D10A) and **Dhruv Wankhede** (D9A) and judged by **Chinmay Warang**(EXTC - 2019) on Zoom and streamed live on YouTube on 21st February 2021. The **winners** of this event were:
Ian Sequeira (D12C)
Vishwajit Waskar (D16B)
Arunim Chakraborty (D1-AD) and Abhishek Mokal (D4B)

The zealous Voice of VESIT participants along with Vesit Music Council

(D10A) on Zoom. The **winners** of this event were:
1. Arunim Chakraborthy (D1AD) and Sudipa Majumdar (D9A)
2. Vaishnavi Harihara (D11B)
3. Anushka Rajwade (D16B) and Sanika Indulkar (D11A)

The soulful singing Winners of Ek Mein aur ek Tu : Jennifer Kumar (MCA) and Muskan Otari (MCA2) Varun Bhatt (D14A) and Divya Singh (D11B)

The enthusiastic winner Ian Sequeira (D12C) of Instrumental Face-off along with hosts Yash Raje (D10A) and Dhruv Wankhede(D9A) and judge Chinmay Warang (EXTC-2019) with Sahil Salain (D14).

Societies

UI/UX Workshop by IEEE

-Arnab Saha

Riding along with the protean nature of technology and gadgets, the aesthetics and the experience that come along with said technological feats, also are seeing a significant boom in growth. Capitalizing on this growth, the IEEE-VESIT excogitated a thorough online workshop for the interested students within our college for the domain of UI/UX which stands for User Interface and User Experience respectively, ensuring all eager students leave the webinar at least an inchoate prospect of successfully being a UI/UX designer.

The UI/UX workshop was the first of their series of events under **Women in Engineering (WiE)**, although the workshop did remain open to all and gender exclusive. Conducted on the 6th of February,2021 under the time constraints of 11:00 am to 1:30 pm, **Mansi Kasar** (D14B) and **Saummya Kulkarni** (D19B) from the IEEE-VESIT council, took up the mantle of successfully instructing and conveying their knowledge and experience over to the domain to the workshop's attendees. They followed a structured layout, with a flow including three interrelated and interconnecting, different tabs/screens for a website called 'Woment'. The project carried a central theme of being 'A website for women professionals to help them connect with mentors, learn new skills through courses, and interact with other professionals on the Community of the website.'

With the help of an online design tool, Figma, Mansi Kasar elucidated upon the UI aspects of the project in hand, while Saummya Kulkarni covered the UX pointers of the project. Netting over 100 concurrent attendees for the workshop, the

Speakers of the event: (L-R) Mansi Kasar (D14B) and Suammya Kulkarni (D19B)

duo started off the session by familiarizing the participants with the rudimentary aspects and tools revolving around the Figma software, explaining all of the tools and their applications. Upon familiarising the same, the session moved onto covering exactly how the said website was supposed to be structured together, while simultaneously presenting real advice and tips that they garnered over their tenure as UI/UX developers.

The didactic session was then topped off by putting forward a competition planned for the participants to ensure they successfully inculcated the skills they learned upon attending the workshop, whilst also serving the purpose of providing them with a real-life experience of being able to understand UI/UX development independently. With strong attendance, IEEE-VESIT certainly deems the workshop a success, as stated by Vanshika Dangi from D14B, who said "The UI/UX workshop conducted by IEEE was very informative. The basics of design thinking were covered meticulously by the organizers followed by an introduction to the designing platform Figma. The instruction style was easy to follow and the instructors were kind enough to wait for everyone to be on track before starting a new topic and resolved all the doubts. I had fun creating a basic front-end website. All in all, it was a very well conducted workshop and I look forward to more such sessions."

CSI VESIT's Introductory Guide To NodeJS!

-Bhavesh Lohana

With the rise in modern web development technologies, NodeJS is fairly popular in the industry. To help students improve their competency in today's technologically driven world, CSI-VESIT organised a two-day NodeJS workshop. The workshop was held on 6th and 7th February 2020 from 11 am to 1 pm. It was conducted online on the Google Meet platform, with over 100 students participating in this two-day workshop.

On the first day of the workshop, the students were introduced to the basics of JavaScript which is the foundation of NodeJS by **Pooja Koshti** (D12A), **Etisha Mathurvaishya** (D12C) and **Pratik Vartak** (D10B).
The session primarily focused on the following concepts:
- Data types
- Functions and operators
- Displaying an output on web pages using JavaScript
- Conditional statements, Error handling and JSON files
- BOM, DOM, Drum Kit Application site

On the second day, the workshop proceeded to make use of NodeJS as a platform to build server-side applications. The second session was taught up by **Aishwarya Sahu** (D17A) and **Mcvean**
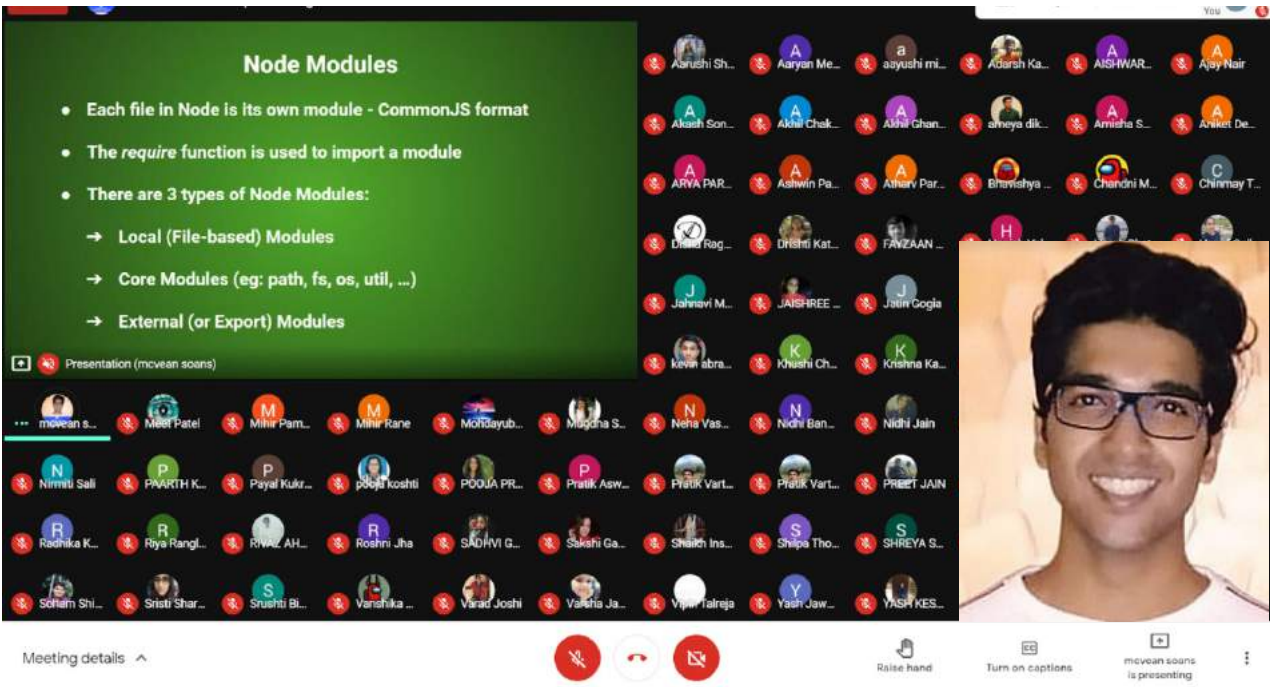
Mcvean Soans (D9A) introducing Node modules to the participants on the second day of the workshop

Soans (D9A) who covered the topics on:
- Basics of NodeJS and NPM.
- Networking essentials
- Express.js
- Sample web application(ToDo List)

Riya Ranglani (D7C) said, "The two-day workshop really helped me brush up my Javascript concept. And, the projects built like Drum Kit site and ToDo list were so interesting to develop. Every minute of the workshop was worth it, smooth pace introduction to NodeJS and in-depth explanation of every concept. Can't wait for the next one!".

ISA IOT Kit Launch

-Vaidyanathan N

The ISA-VESIT launched its very own **IoT Kit** on the 9th of February, 2021. This kit has been specially designed by ISA to provide students with **hands-on experience** on hardware components. IoT stands for Internet of Things, a system of interrelated, internet-connected objects that can collect and transfer data over a wireless network without human intervention.

The interested students were asked to place their orders via Google forms. Payments were supposed to be made online to complete the transaction. This launch was largely awaited and 51 ISA-VESIT members and 1 professor from VESIT purchased the kit. This IoT kit that was available solely to members of ISA, was delivered to the customers at their doorsteps. Courier services were utilized to complete this part of the process.

The COVID-19 pandemic situation has put engineering students in a rough spot. Inability to perform real-life practicals has forced students to settle for online simulators. The time slipping away, and the situation not getting any better has culminated in students missing out on valuable practical knowledge. This IoT kit is the remedy for the solution since students now don't have to wait for the colleges to reopen and can perform a variety of experiments while staying at their homes.

ISA-VESIT offered the students two options. The Generic kit contains a breadboard, jumpers, resistors, LED, LDR, an MPU sensor and a NodeMCU Board. The second option or the Premium kit contained all the components of the Generic kit in addition to a PIR sensor, DHT11 sensor and an Ultrasonic sensor.

The locations of students whose kits had been delivered on their doorsteps

The IoT kit delivered to one of the members

ISA-VESIT has planned on conducting multiple workshops to educate its members about the use of the variety of components provided. This knowledge will be put to test when they will be asked to create different projects using these components. ISA-VESIT successfully conducted its first IoT workshop on the 28th and 29th of February, 2021.

"The kit contains a variety of components such as sensors that can be used to make detectors or alarms. Since a lot of my subjects require a deeper knowledge of sensors, this kit will help me a lot in my academics as well", said Shikha Negi (D8).

IEEE's Blockchain Workshop

-Manasi Nerurkar

IEEE VESIT turned up with an innovatory, "**Blockchain Workshop**", the record-keeping technology behind the Bitcoin network. In recent years, the tremendous amount of data available and the need of decentralized transactions calls for "Blockchain as a service" for simpler integration. The workshop on this topic was conducted on February 14, 2021 on Google Meet. The workshop was open to all, free for the IEEE members with a paltry sum of Rs. 20 for non-members. The

Blockchain Technology Workshop Poster

Speakers of the event: (L-R) Alisha Punwani (D17A) and Abhinav Sharma (D12A)

one day workshop was divided into two sessions from 11:00 to 12:30 pm & 1:00 to 2:30 pm. The sessions were conducted by **Alisha Punwani** (D17A) and **Abhinav Sharma** (D12A).

The workshop primarily covered the basics of blockchain, ethereum and solidity. The participants were made accustomed to the novice technology, filling them in on the difference between a blockchain and a digital ledger, the workflow of blockchain and accountability in terms of security & transparency. The speakers shed light on some

keywords such as immutability, decentralization and distributed trust.

The next point of discussion was Ethereum, an open-source computing platform, along with its associated cryptocurrency, ether. Solidity, an object-oriented, high-level language was introduced for the implementation of smart contracts. It included the basic syntax, smoke test, deployment of smart contracts using Truffle.

After getting clued up on the basics, the participants engaged in an interactive and hands-

on experience by creating a real-world application - an election system. The Truffle framework was used for compiling the solidity codes and writing data to the blockchain. A virtual blockchain tool, Ganache, which provides Ethereum cryptocurrency for performing transactions on Ethereum blockchain, proved as a useful asset for the project. Furthermore, a chrome extension named 'Metamask' was used which aids in easy communication of web applications with Ethereum blockchain.

The workshop engaged the participants in a great learning experience, the speakers left no stone unturned while resolving the queries. The sessions received highly positive feedback from the participants. "The workshop was greatly impactful. I got to know a lot of new terms associated with blockchain technology which were a bit difficult to grasp in the beginning but yet interesting. The election system created through blockchain helped familiarise a bit with the basic idea behind blockchain. And overall the workshop gave a good kickstart to start exploring blockchain more." said Saritha Tharakan (D6).
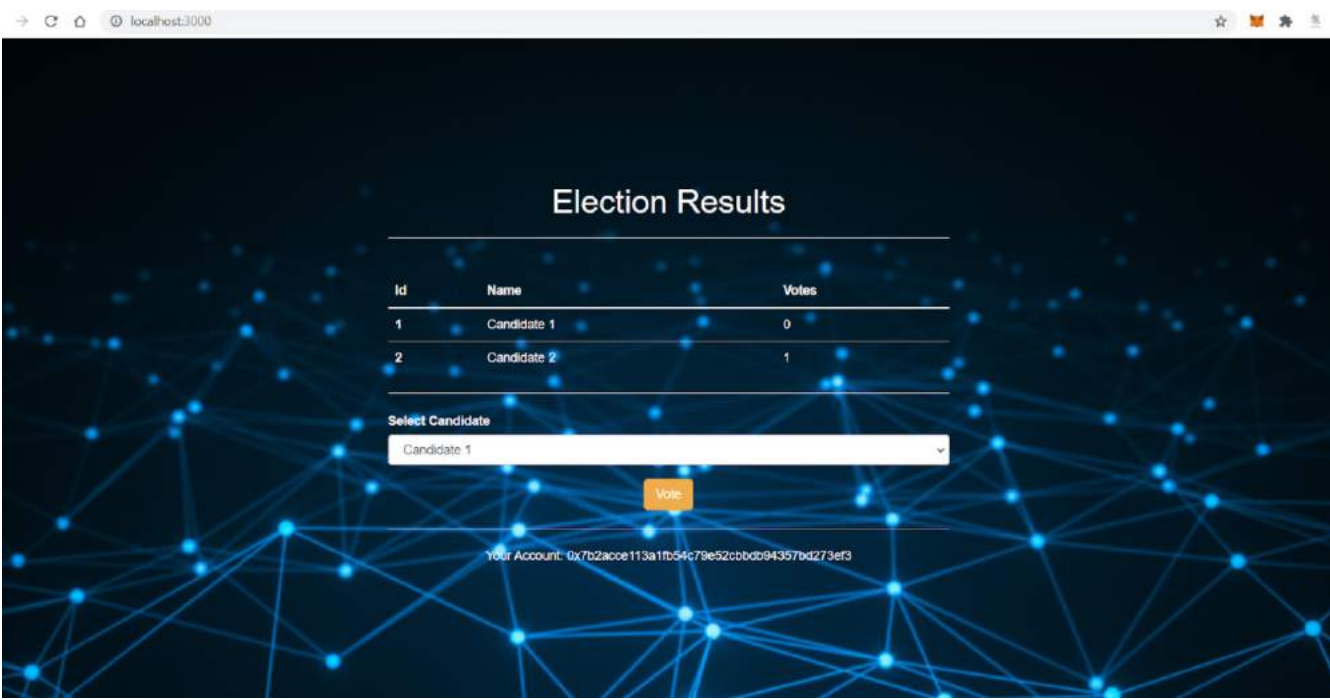
Results of the blockchain based election system

Hidden Cipher

-Sristi Sharma

CSI-VESIT hosted its first mega-event **Hidden Cipher** organized by council 2020-21. The event was conducted over a span of two days - the 13th and 14th of February, 2021. The first three rounds were held on Day 1, wherein the two teams that ranked last were eliminated in each round. Round 1 was a pictorial round - the teams had to guess the correct word from the two pictures that were displayed. Each correct answer rewarded 50 points and the wrong answer didn't carry any negative marking. Teams had to answer within a time limit of two minutes, and unanswered questions weren't passed.

Round 2 was a buzzer based round. Participating Teams had to figure out the word from the vivid image presented to them. Leaders from the teams were placed on buzzers. The leaders had to buzz as soon as they could, allowing their team the chance to answer. Teams were awarded 50 points for the correct answer, whereas in case of a wrong answer or no answer 30 points were deducted from their total score.

In Round 3, the participants were shown emojis which signified the word related to technology. Since this was a buzzer based round as well, team leaders had to buzz to get the chance to answer. The answering team was given an option to take up 3 hints for each question. Each correct answer, without any hints taken, carried 30 points. However, each hint taken would cost 6 points from the team's total score. Hosts for Day 1 of the event were **Neeharika Nagori** (D7B), **Sristi Sharma** (D10B), **Nupur Jeswani** (D10B) and **Mcvean Soans** (D9A), who made sure that the event is conducted smoothly and fairly.

Semi-Final and Final were held on Day 2 of the event. From Day 1, the top 10 best scoring teams were battling in the semi-finals against each other. The semi-final round was a betting round, where two teams were pit against each other to place bets. The team which won the bet was awarded the pool amount. From here, the top 6 teams took to the next and final round of the event.

The final round was a relay round, where the coordination and skills of each teammate could be decisive. Each team member was assigned a single task which they had to complete under the specified time limit. The teams were provided with

R-L; Winning Team Members Yash Jawale (D7B), Gourab Bank (D7B), Ruturaj Wairkar (D7B)

a quadratic equation to solve and provide the roots of it to their team. These roots were the keys to decipher a coded word given to the team.

Finally, from the decoded word, a team member had to make out as many smaller words as possible. If those words were objects, another team member had to click photographs with those objects and post them on their Instagram story. Points were awarded for the number of words made out, and pictures posted.

After hours of highly competitive play, the ones who emerged victorious were:
1st: Yash Jawale (D7B)
　　Gourab Bank (D7B)
　　Ruturaj Wairkar (D7B)
2nd: Prithviraj Chavan (D7B)
　　Vipin Talreja (D7B)
　　Priyal Agarwal (D7B)

Poster for CSI-VESIT's HIDDEN CIPHER

R-L; Runner Up Team members Prithviraj Chavan (D7B), Vipin Talreja (D7B), Priyal Agarwal (D7B)

ISA Financial Independence Workshop

-Gaurav Govilkar

ISA-VESIT organized its **Finance Workshop** for the students of the third and final year on 13th and 14th February, 2021 between 5pm to 6.30pm. The workshop was conducted by **Mr. N. Gopalkrishnan** (Assistant Professor, Department of Instrumentation Engineering) on the online meeting platform Google Meet. The workshop brought a plethora of skill sets that are required for achieving financial independence.

Poster for the ISA 's Financial Independence Workshop

Mr. Gopalakrishnan N (Assistant Professor, Dept. of Instrumentation Engineering)

Poster for CSI-VESIT's HIDDEN CIPHER

The prime objectives that were covered in the workshop included:
- Mutual Funds
- Share Market
- Entrepreneurship skills
- Finance Management

The workshop was divided into two sessions on each day. On the first day , the basics of financial planning and its various aspects were elucidated. This was followed by explanation of a simple yet important topic of 'Inflation'.The students were then introduced to numerous investment assets and their pros and cons were highlighted.
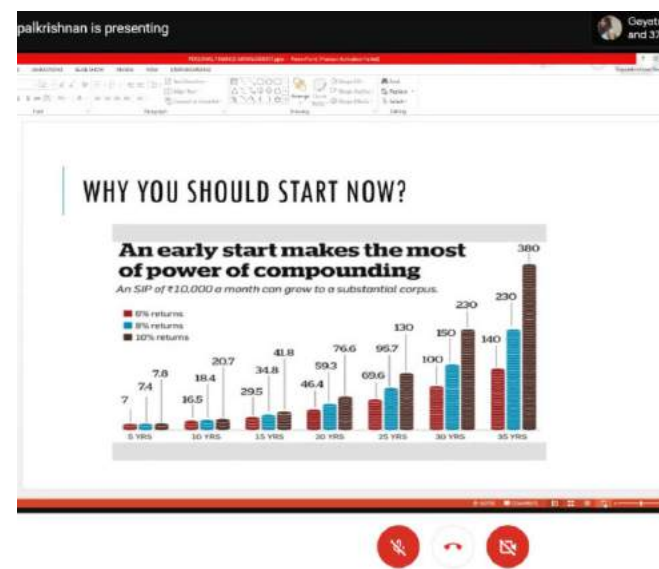
On the second day of the workshop, the students were briefed about equity markets and their several investment strategies were discussed upon. The focal point of the day was a live technical analysis of equity markets on the website Investing.com.

This session was a great opportunity for the students to interact with **Mr. N Gopalkrishnan** and imbibe how the world of finance works. The constant exchange of questions and answers made the event lively and engaging for the participants.

VESIT Voice

-Atharva Gupte

Two months into the year of 2021, and things have already started to change. Right now it's more important than ever to stay at home, and keep practicing all the precautions while going outside. While the month might have passed in a jiffy, VESIT made the most out of the start of the new semester with hope, harmony and hardwork.

Our students reached the semi finalist stage in the Swadeshi Microprocessor Challenge and were in the top 100 out of 6000 teams that the competition included. Adding to the list of firsts we also saw the Induction Program for the freshers taking an online turn. With various councils, circles and student bodies welcoming the newbies to VESIT. Student bodies also organized various new workshops for the new semester continuing the streak of meticulous organization and hard work for the successful virtual completion.

VESIT Music Council's flagship event, Octaves also joined the band of the virtual events and brought the buzz of the auditorium back with some incredible musical and instrumental performances. The technical societies jumped on the events as soon as the semester started and imparted knowledge and practical skills by conducting workshops from Financial Independence and Blockchain to IoT and NodeJS. As always we have added some excellent musings and expressions which will make up for some light reading and an absolute visual treat.

In the VESIT Diaries we interact with Mr. Chirag Makhija who is a student at IIM Calcutta and an incoming management trainee at Byjus. We talk to him about his life at college and his dream journey of pursuing an MBA from one of India's most prestigious B-Schools.

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"The way to get started is to quit talking and begin doing."

- Walt Disney

In Loving Memory of Mr. Chaitanya Kulkarni

Mr. Chaitanya Kulkarni left for his heavenly abode on the 25th of December 2020. We recount the stories and memories of this incredible student, friend and brother who with his everlasting enthusiasm, warmth and energy, positively impacted the lives of several people.

Chaitanya did his HSC from Saraswati Bhuvan College of Science, Aurangabad and graduated with a Bachelors' in Engineering - Instrumentation from VESIT (Batch of 2019). At VESIT, he was the Head of Tinkerer's Lab (2018-2019), Publicity Officer at ISA-VESIT (2018-2019), Personality of the Year (2016-2017) and was a part of the VESIT Drama Club (2015-2019) where he represented the college and received various accolades for the same. Chaitanya or CK - what everyone lovingly called him, was very passionate about Mathematics and also played the harmonium flawlessly. He loved to express himself both on paper and on the stage and gave us so many engaging stupendous performances during Utsav and Illusions.

Chaitanya was known for his infectious cheerfulness and the way he supported and uplifted everyone around him. His presence, energy and pure love touched the lives of many, some of whom have expressed their gratitude, thoughts and appreciation towards him posthumously.

Rahul Ghorpade (Batch of 2020 - Instrumentation)

"In August 2016, I moved to the hostel and bumped into a guy with a 'tika' applied on his forehead, who seemed to be an introvert. Little did I know that with time, I would have created such a bond with this person, that by my final year, some of my close friends even started calling me 'Chota CK' or him as 'Bada Bhai' and me as 'Chota Bhai'. I would always refute this, but on the inside, I knew how much it meant to me, still does, and always will.

Think of any adjective you can and I would tell you its relevance with this man (except for physical exercising which was scheduled to start by March-end every year since 2017). Humorous, patient, calm, foodie, caring, fanatic are few to name amongst the many things he was. From his attitude to handle failures to his caring nature towards any living being or even his courage to quit a 3-month-old job to pursue his passion - Acting. He always left everyone awestruck with his confident yet unorthodox decisions and thoughts, and that is what made him 'CK'.

The best thing about him was he didn't do anything intentionally to keep everyone happy, but everyone around him was happy because of what he did in his way, with no second thoughts on his mind. This quality is the rarest of the rare which he quite beautifully possessed. He also could uphold a conversation with anyone in any aspect. Let it be music, dance, literature, cricket, politics, or his all-time favourite - Drama.

An institution in himself, the aura this guy had at the tender age of 24, will forever remain unmatchable for me. To further avoid more memory-flooding for this column, someday I would definitely bring forward his complete saga, which I witnessed through my eyes, in front of the world! Someday! Till then, I would say he was - A man to be cherished and celebrated, forever!"

Akshit Kuloo (Batch of 2019 - Instrumentation)

"1706! An emotion! The imperfect mix of four guys with a perfect understanding!

I remember it was our first internal test and while I was adjusting my bag near the podium, a guy joined me and said, 'Ohho, Exam saathi mast clean shave haa' (Oh! A clean shave for the exams, ha?) And I was thinking, "Do I even know him? Nah"

Few days went by and with God's grace (it was not the same feeling back then), we were at the same desk, and guess what? We chose politics as a topic of discussion where one wasn't a supporter of the ruling party and the other was a supporter. Despite this, I felt that there was a connection. And it only became stronger with a mutual love for music, series and many more things. It was this connection that indulged us in becoming roommates along with two more idiots and 1706 being the flat number. He truly was a gem of a person who made everyone around him happy and cheerful.

A packet of talent and knowledge. The man who could make the stage look beautiful, an AR Rehman aficionado. One who could make you laugh at any point in life. That's what he was! His persona is something that can neither be defined and nor achieved by anyone! Can you imagine the whole amphitheatre shouting only one name?

I just cannot say goodbye to him at any point in my life, because the bond that we had was beyond the mortal world. I feel he is with me every day and helping me to make it through. I just want to say that I was blessed to have him in my life. Thank you for everything, CK.

I can say rest in peace but knowing him he is not resting, he is trying to make another part of life more fun."

Mr. Chaitanya Kulkarni

Himanshu Mahajan (Batch of 2019 - Instrumentation)

"CK is not just a name. He was, is, and would be a feeling for everyone who knew him. I remember every single moment spent with him from day 1. We have infinite memories together. He was not just a writer, rapper, 'dramebaaz', singer or an artist but a complete package of happiness, care and love.

Even though I can't believe that he is not amongst us anymore, his presence is always here with me. I am sure wherever he goes, he will always spread happiness, kindness and love as he did here. CK had a personality that always made everyone happy just by staying around. I have learned so many things from him like how to be optimistic, how to handle failure skillfully and diplomatically.

One couldn't fathom the courage and attitude he had towards his difficulties. I had learned one very great lesson from him and that was to not take any comment too seriously, it's just their point of view and it does not define who you are.

CK thank you for everything. I just want to say this one thing to everyone who is reading, be like CK. There is so much to learn from him. He was a perfect example of diplomacy, courage, love, devotion."

Chaitanya Kulkarni receiving his Graduation Degree in VESIT Auditorium

(L-R) Chaitanya Kulkarni, Ankit Gone, Jatin Manglani, Akshit Kuloo & Himanshu Mahajan. (All from batch of 2019 - Instrumentation)

Musings And Expressions

College: The Best Time of Life!

-Bhairavi Chavan (D16B)

Memories, fun, bunks, are all bonus,
When you buy a package named 'college',
Academics are your parents' onus,
But your's is fun's increased voltage.

A few days may be tough,
Trying to adjust with everyone,
But soon you know each other just well enough,
To plan pranks and have fun!

You bunk your lectures and chill in the canteen,
That smell always has the ability to draw you in,
You peek to check how long's the lecture been,
And again hide, for you shouldn't be seen.

40 minutes late, still u get attendance,
To miss that ma'am's lecture was the only intention,
But if you do it even once,
For the rest of your years, it's a repetition!

Some people make a lot of friends,
Whereas some are introvert-ish,
Cool bonding with seniors has always been a trend,
Cause those are the very memories you'll later cherish!

Fights, misconceptions are common in friendships,
But only the true ones last through the years,
Friends who help you with dating tips,
And who are there for you no matter what your fears.

Events; mesmerizing part of the college,
The time when participation is so enthusiastic,
When everyone's talents come out of the cage,
To leave an impact, that's so drastic!

Amongst the events and academics,
What you also make are beautiful memories,
The ones which will bring tears, years later,
When you proudly tell your children these stories!!

Life - Unpredictable

-Palak Garg (D7B)

When things go wrong
Seems like everything has gone
Soon it shall also be a past
No more will it last
Where life takes you, there's no clue
While going through, many might also fall
But the ones who stand up are very few
Although its never too late to start a new
Its not about he got it and not you
Its about who did it

"If you look at what you have in life, you'll always have more. If you look at what you don't have in life, you'll never have enough."

- Oprah Winfrey

VESIT Diaries

-Anushka Kulkarni

This month we are in conversation with **Mr Chirag Makhija** who graduated in 2017 with a degree in Computer science and went on to work in J.P. Morgan as a software Developer. In 2019 he got accepted to IIM Calcutta and is an incoming MT at Byjus. He also co-founded Worker hub which is a platform to offer job opportunities to the unskilled sector in factories and the construction sector.

Q1.Tell us something about your college life at VESIT?

Pretty chill! was almost always late to class. Terrible at catching trains, so I switched to driving to college in the third year of VESIT.

In college, I was pretty involved in club activities. I remember those late evenings spent planning and organizing events for CSI! And, of course, the sleepovers spent to "work". Canteen is another place I dearly miss. Man, the food ain't nearly as good in other hostels!

Q2.How was your professional life after VESIT?

I was focused on securing placements. I did have a long term plan of pursuing an MBA, post decent work experience.

In VESIT, I made sure to maintain a good CGPA, and secure PORs in clubs. Post cracking JP Morgan via the Code for Good codeathon,, I shifted focus to cracking CAT.

It was an intensive year, to balance work with entrance exams preparations, but definitely worth it in the end! I cracked IIM Calcutta, which was a dream come true.

Q3.What is the importance of extracurricular activities in a student's life and how to manage them along with academics ?

Definitely! Extracurriculars present a well-balanced resume to a recruiter. More importantly, it helps develop one's soft skills - essential for a successful career in the long-term. There is no defined set of extracurriculars one must participate in - just make sure to develop yourself, and hopefully excel too!

Academics must go hand in hand with extra curriculars (EC), it doesn't make sense to develop one at the expense of another. Simply said, academics form the base of candidature for interviews, and EC adds value on top of it. Many candidates sacrifice academics for ECs, defeating its purpose.

Q4.Can you throw some light on some activities that a student can do which will help them build their career?

In my experience, industry exposure and skills are necessary to build a strong profile. Students may begin by learning the coding languages apart from those taught in college, primarily Java Core & Ad-

vanced. Next, undertake self projects such as web development projects to apply web coding languages in practice. These could also be showcased in the resume. One could look at developing oneself via competitive coding on platforms such as Hackerrank.

The cherry on the cake is to intern at reputed firms - obtaining internships is certainly difficult but sets one apart from other candidates. Primary ways to obtain internships are LinkedIn and networking.

Understandably, this is a long checklist, the goal is to perform in areas we can to our best, while maintaining a decent work-life balance.

Q5.How was your experience of doing your MBA from IIM Calcutta ?

Very difficult to put into words! One thing that I am going to take away from here is the ability to get things done under intense pressure and short deadlines! The rigour here, combined with competition from the best of minds in the country, is definitely something that is overwhelming in the beginning.

The college offers a truly wholesome experience to develop one in various areas. I acted on stage for the 1st time as part of the Dramatics cell, founded a club in IIM Calcutta, mentored a startup as part of IIMC Innovation Park and co-founded my own social startup, all at the same time!

Q6.Studying from IIM Calcutta, a glorious institution, is considered to be the ideal for doing MBA in India, did your experience match your expectations?

Pursuing an MBA from a premier college in India was a dream, and I am glad to have been able to experience it. It has honestly been worth it. The opportunities are endless, the limit truly is your ambitions.

Classrooms are highly engaging, and based on real world cases, rather than theoretical learning. Foreign exchange programmes offer a once-in-a-lifetime experience, to learn from the best of colleges in Europe and other continents, paid for by the institute. And the campus is extremely beautiful, 135 vast acres with lakes and lush greenery all around.

Q7.You've co-founded many start-ups, what has been like for you ?

The motivation behind the same was entrepreneurship. At some point, I always want to be able to build and run my own business. My most recent startup has been during the lockdown in Covid. I co founded Workerhub to solve an urgent social need - that of facilitating jobs for migrant workers laid off in the lockdown. Via partnering with NGOs and government agencies, we were able to facilitate 400+ jobs across Maharashtra.

Entrepreneurship has imbibed in me the

Mr. Chirag Makhija

ability to have confidence in my vision and ambitions, and dream bigger. I'd encourage budding entrepreneurs to take a chance on themselves. The tech space offers a ton of opportunities at very low capital investment. Anyone with a decent idea and strong passion can make a mark. From a placement perspective as well, it also showcases leadership skills, applied knowledge and makes a great impact on recruiters.

Q8.Can you tell us about why you decided to choose this as your Masters and what was your preparation for the same ?

I was clear on my decision to pursue a postgraduate. The decision boiled down to choosing between MS, MTech and MBA. I'll explain my rationale, but please consider it as a personal opinion:
MS vs MTech: MS offers higher opportunities and growth compared to MTech.

MBA in US vs India: MBA abroad is pretty expensive, MBA in India makes more sense.
My personal preference was to align myself in a managerial role, rather than a pure tech-based role. Thus, an MBA in India seemed like a clear choice.

CAT is an extremely competitive exam, and I followed a well-disciplined approach for the same. Time taken for preparation was around Apr-Nov, 4h/day.

I have tried to keep it straightforward and honest to truly help other aspirants, but please do consider it a personal strategy. Your approach and need of preparation time could vary.

Q9.Message for the new generation at VESIT!

Dream bigger. On a different note, don't be limited by your performance at VESIT. We often judge our abilities by a few instances of failure. However, we all personally know people who have been wildly successful in their dreams, just because they believed, and worked passionately towards their goal.