
RHAPSODY

Sojourn



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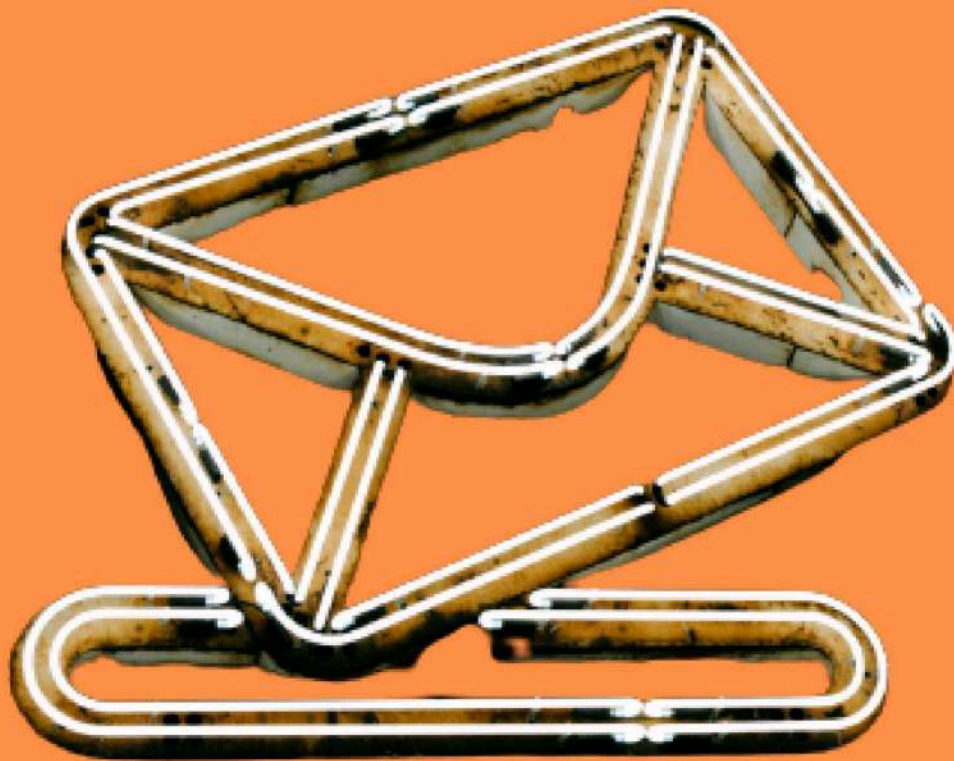
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*MEET THE
TEAM*

MESSAGES

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PRINCIPAL'S MESSAGE



Dear Readers

Engineering Institutes of India. It takes a lot of labour, planning and hard work on part of the faculty, management and the students to achieve that. The journey in the past few years though arduous has been sufficiently rewarding. The achievement graph has never been so steep.

To hone the wide range of skills of the students and to motivate them to engage with the creative happenings in college, we have created various clubs, and in the last few months these have expanded in terms of seminars, workshops and other such events. We also hope to inculcate a sense of reason among the students by giving them the opportunity to demonstrate their skills by introducing NSS besides, ARC. AI n Deep Learning. MESA, Cyber Security club etc. The various skill-sets of the students find expression through the creative spaces of the e-newsletter and the magazine.

Other than the regular extra-curricular activities, we have introduced some others that are based on creative engineering, self learning and social Involvement with regard to the different aspects of students' interests. CSI, Hackathon, Extacy Social Cell and Debate Club are some such platforms.

We are sure to see many more improvements in our college system through the tandem working of the faculty and students in the coming times. Wishing you all a happy reading time...

**- Dr.S.M. Khot,
Principal, Fr. CRIT**

EDITOR'S MESSAGE



Dear Readers

As I sit beside time talking to readers I wonder if time could stay or sometimes just run against to part way. How I can now hear the human voice echo and realize how deaf we were to it during the lockdown, the gleeful sound of their meetings gives me a sense of satisfaction. Now, this is what life says, everything you live by is temporary until you decide to make them your judiciary. If I step back in time, the world was way different than it seemed, and how we indefatigably strive the season of 'corona pandemic', fighting the demons of our problems barely realizing its transient state in our lives. 'Sojourn' the theme of our edition highlights the temporariness of any situation in our lives and how cherishing the moment till the last breath of its beauty makes our lives beautiful. We at FCRIT bring to you yet another captivating memory of technical upbeat events from Etamax to departmental activities.

Agnels has always been a place for workaholics, to walk an extra mile is its inherent nature. In the past six months, it has swiftly maneuvered to online-offline mode, prepared its staff and students to adapt from one to another and started some new ventures, and consolidated on some of the older. In this issue of Rhapsody, we showcase the academic and creative work of the Agnelites, including some of the best efforts by the faculty and the students to turn the situation around to our advantage.

- **Dr. Tuhina Bose**
Editor-in-Chief - Rhapsody



COVER STORY

2022

ETAMAX 2022

"There is a wide world out there, full of pain, but filled with joy as well. The former keeps you on the path of growth and the latter makes the sojourn tolerable."

— R.A. Salvatore

An unexpected pandemic brought the entire world to a standstill yet it also taught us what to cherish the most. Returning to offline lectures, studying, and interacting with peers in person and for some, seeing the college for the first time! definitely had a huge buzz revolving around it.



As always, ETAMAX, an intercollegiate extravaganza, is a ray of hope and a stress buster from the rigorous academic schedule of FCRIT marked early March this year. A flamboyant fusion of technical, cultural and for the first time - sports activities, ETAMAX has always had something to offer everyone and opportunities for all to shine but with the same fervency (if not more) as that of previous years.

The theme for ETAMAX 2022 was 'Fleur' - A French word that originally means Flower in English. It symbolizes a bud where most of the marvelous cultural, artistic, and technical novelties give us a blossoming aroma of euphoria and the beautiful corals of memories. A theme that surely kept up the enthusiasm for the three-day gala! ETAMAX was scheduled on the 10th, 11th, and 12th of March.



The inception of ETAMAX began with the inauguration ceremony, with all rules regarding COVID - 19 being followed. The student body, as well as fellow students, were present for the ceremony addressed by the Principal, Dr. S M Khot, the Head of various Departments, Dean of Student Affairs Dr. Bindu S., faculty members and the General Secretary of the Student Council 2021-22, Ms. Celine Fernandes.

There were around 32 cultural events which consisted of 23 competitions, 5 workshops, and 4 Fun events, 22 Technical events which consisted of 14 competitions, 8 workshops and finally, 8 sports events.



In addition to the plethora of events conducted, 4 new events were conducted namely - Squid games, Mock CID, Drone Racing, and Techathlon. Drone Racing was one of the highlight events of the fest which was

conducted in collaboration with IDRL (Indian Drone Racing League) while simultaneously creating history as the 1st in Navi Mumbai and 4th in all over Mumbai to conduct this amazing night Race.



Industrial HVAC



Technical Quiz

ETAMAX also for the very first time ever had sports events that received humungous participation since being conducted offline for the first time in the span of two years. It was thoroughly enthralling to witness the team spirit and sportsmanship displayed by various individuals. And the perfect closing to this fest, was the much awaited Icon of Music Event.

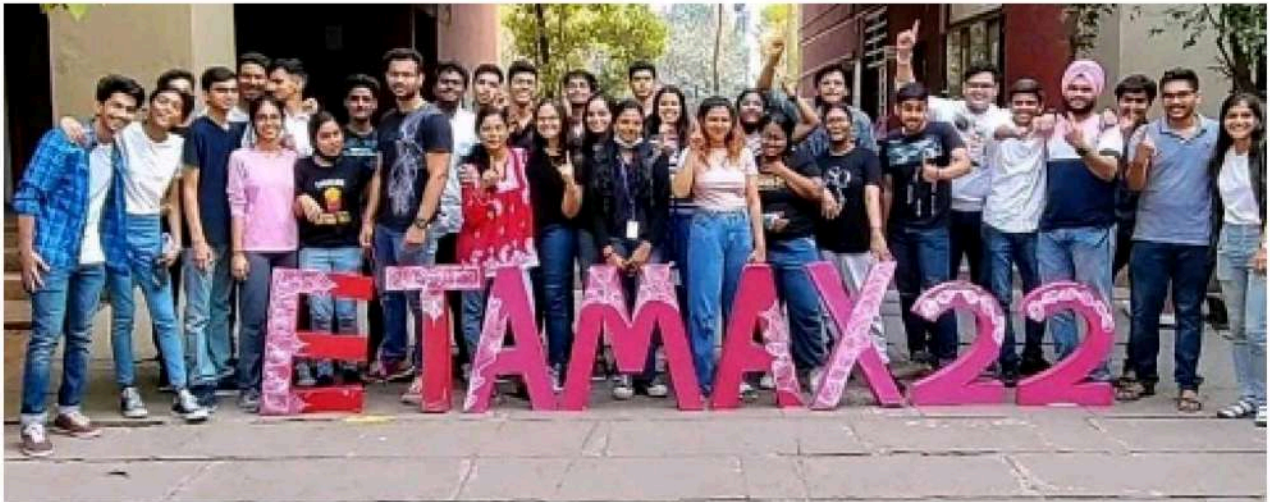




And the perfect ending to this fest anyone could've hoped for, was the much awaited Icon of Music Event. Packed with full of emotion, passion and music of course, was some of the last times, seniors from batch of 2022 performed in these grounds, full of students, cheering them on.



The events would not have seen the light of the day and would not have been successful without the Council Members, the Organizing Committee of 2021-22, who worked day in and day out tirelessly, the unwavering support from the faculty of our college, and most importantly the active participation from the student community.



- Agrima Kumar (Computer, Sem-4)

Mahima Rudrapati (Computer, Sem-4)

COMPUTER ENGINEERING



Workshop on



Student Coordinator: Mr. Christopher John and Mr. Laurel Dsouza

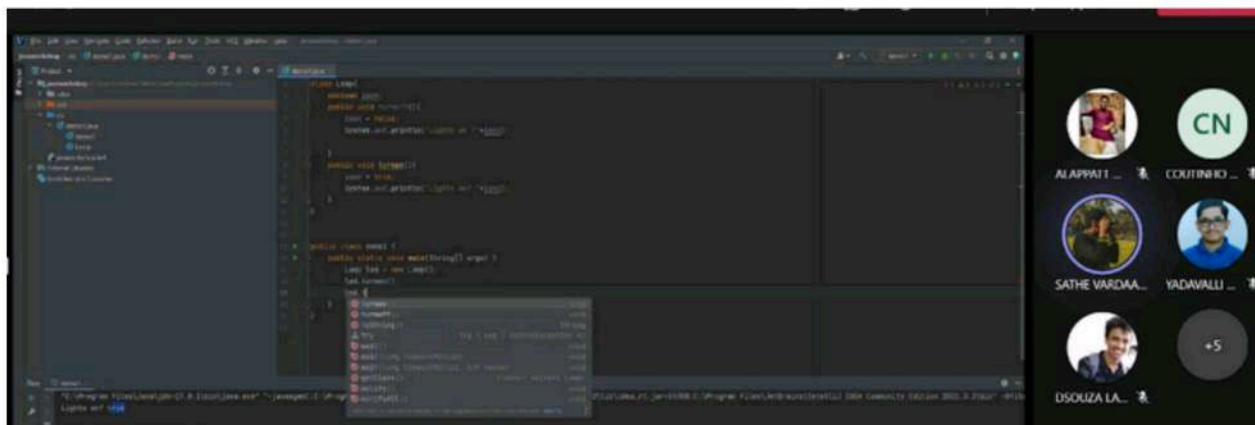
Staff Coordinator: Mrs. Snehal N and Mr. Abhijeet P

The Computer Department of FCRIT Vashi constantly aims at cultivating a culture of software entrepreneurship and developing coding skills among students. In its relentless pursuit of grooming students to acclimatize to the professional environment, the CSI chapter of FCRIT Vashi organized a workshop on Object-Oriented Programming (OOP) with Java, spanning various sessions. The students were encouraged to participate in the contest irrespective of their branches/semesters.

Day 1

- a) Instructors: Christopher John, Laurel Dsouza
- b) Time duration: January 25, 2022 5:30 PM – 7:30 PM
- c) Topics covered: Installation of IntelliJ, basic Java Syntax
- d) Session Flow:

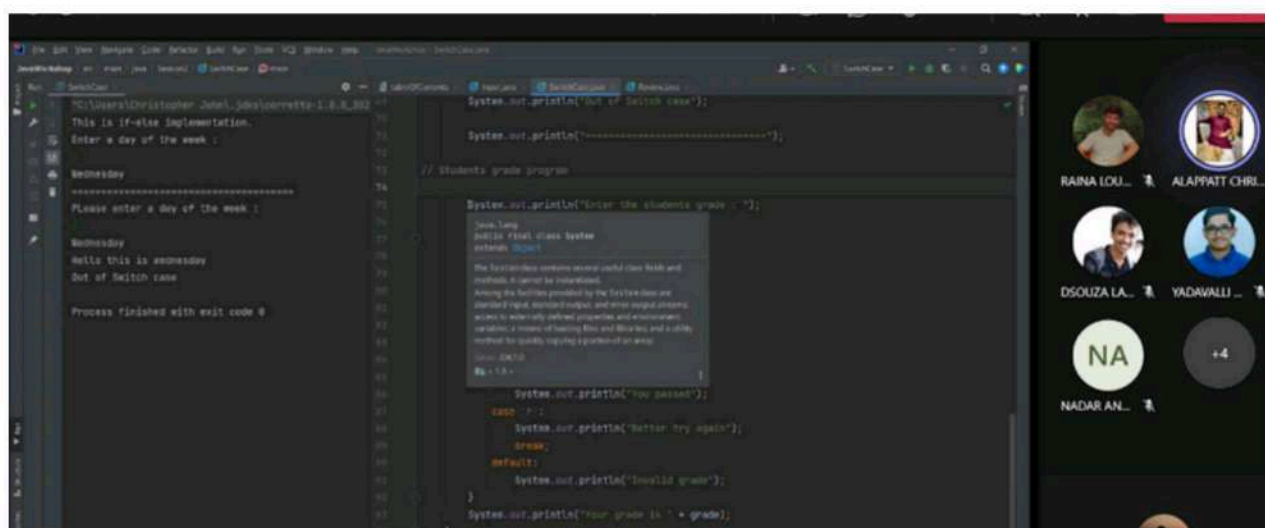
The workshop began with a basic introduction to programming in general. The participants were asked to install Java and IntelliJ on their machines. In the beginning, their queries about the installation were swiftly resolved by the instructors. Then the participants were taught how to navigate through IntelliJ, create a Java project, edit pom files, etc. The participants got acquainted with the basic syntax of Java, variables, declarations, and main function.



Day 2:

- a) Instructors: Christopher John, Laurel Dsouza
- b) Time duration: January 9, 2022 5:30 PM – 7:30 PM
- c) Topics covered: Conditional Statements, Loops
- d) Session Flow:

The second session focused more on the branching statements like the conditional statements and the loop statements. The participants' doubts were solved, and they were encouraged to share their screens to resolve their queries more efficiently. The participants also learned about the switch case statements and method overloading. The participants were also given practice assignments to strengthen their grasp of the concepts.



Day 3:

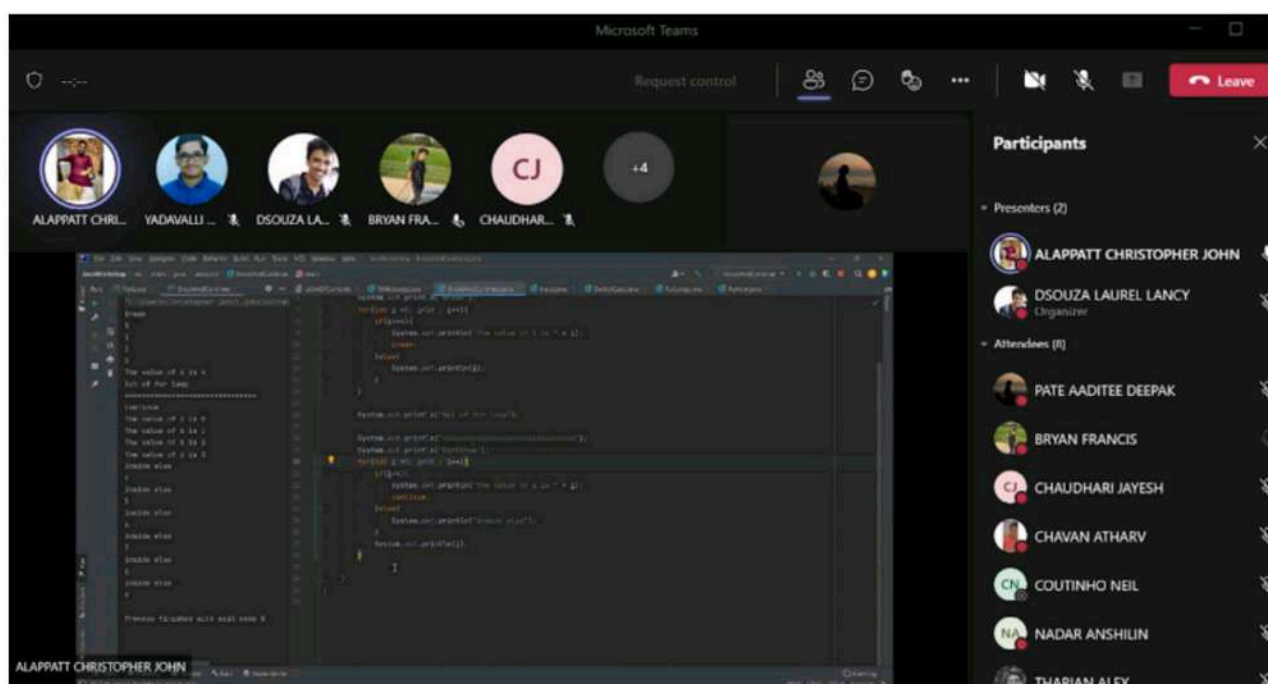
- a) Instructors: Vardaan Sathe
- b) Time duration: February 5, 2022 5:00 PM – 7:00 PM
- c) Topics covered: Methods, Classes, Packages
- d) Session Flow:

The third session went over the object-oriented part of the language. The participants learned about classes, methods, and how classes help to make the code more reusable and easy to apply separation of concern. The students learned about constructors and their uses. The participants' doubts about the previous assignment were solved and they were given more practice questions for the next session.

Day 4:

- a) Instructors: Christopher John, Laurel Dsouza
- b) Time duration: February 12, 2022 6:00 PM – 7:30 PM
- c) Topics covered: Packages and more OOP
- d) Session Flow:

The fourth session focused more on the in-depth knowledge of OOP concepts and came to the functionality of Java. The participants were refreshed with the previous session's content. They then learned about how to create packages in Java efficiently using IntelliJ shortcuts. The participants' doubts were also solved in a very interactive manner. Finally, the students were encouraged to build a small project: The Gumball Machine, based on the knowledge of Java, which they had acquired from the workshop.



Outcomes

The students learned a new language that is widely used in the industry. The workshop helped the participants to add one more skill to their repertoire.

Workshop on



Name of the activity/Student Coordinator: Mr. Loukik Raina

Staff Coordinator: Ms. Snehal N and Mr. Abhijeet P

The main focus of the workshop was to introduce the participants to some basic concepts of Git from scratch using Git bash as well as some advanced concepts like branching, merging, rebasing, pull requests, etc. using Git and Git Kraken.

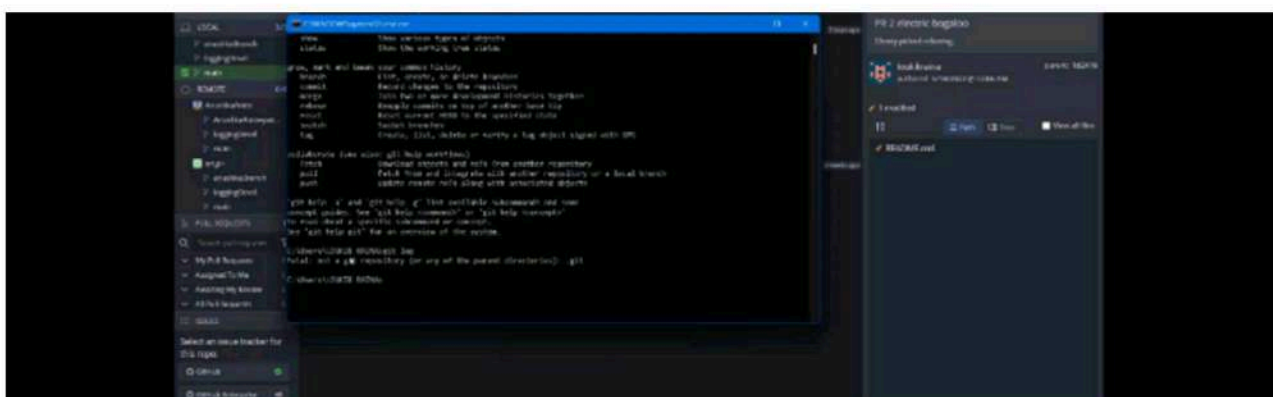
Objectives

- Introducing the students to the newest tools used in the industry for version control
- Providing the students with the resources to contribute to the open-source world.

The session commenced with the instructors discussing what Git and Github are and why it is used extensively. The installation of Git was demonstrated by instructing a participant volunteer. Further, into the session, participants were introduced to a few basic commands to set Git up using Git bash. Next, the participants learned how to create, connect and push repositories.

Then an overview of what GitKraken is and why it is used was given and its installation was demonstrated.

A comprehensive idea of concepts like branching and merging was provided. The latter half of the session was focused on the practical demonstration of various advanced concepts. Participants acquired insight on forking, pull requests, merging, branching, rebasing, and a lot more using both the platforms, that is Github as well as Git Kraken.



Workshop on Professional Speaking



Student Coordinator: Mr. Bryan Francis

Staff Coordinator: Mrs. Snehal N and Mr. Abhijeet P

The Computer Department of FCRIT Vashi constantly aims at providing all-round development for students, to make them industry-ready. Keeping in mind that soft skills are extremely important in any professional environment, the CSI chapter of FCRIT Vashi organized a workshop on Professional Communication. The students were encouraged to participate in the contest irrespective of their branches/semesters.

Day 1:

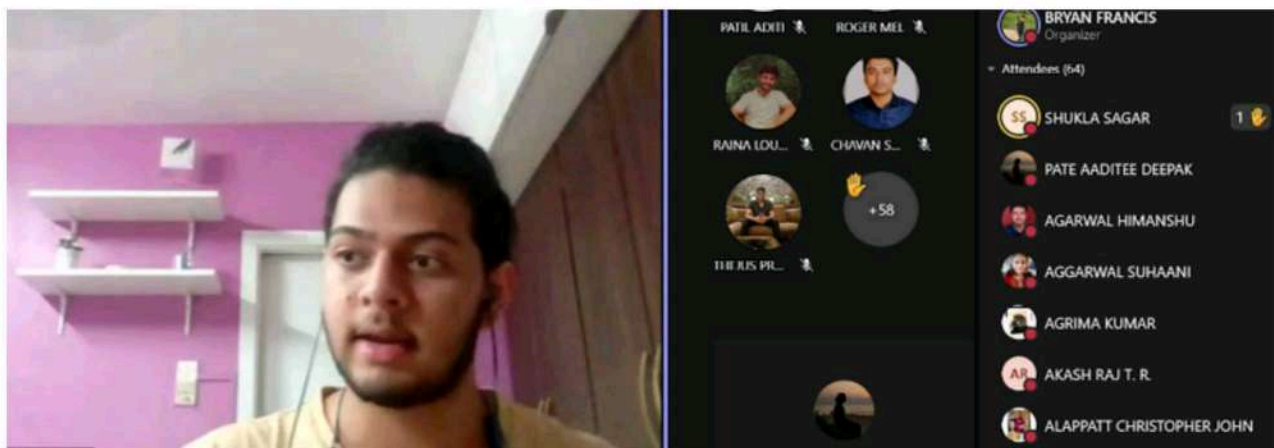
a) Instructors: Bryan Francis

b) Time duration: January 27, 2022 6:00 PM – 7:30 PM

c) Topics covered: Managing work-life balance/ Introducing oneself

d) Session Flow:

The main aim of this workshop was to create an informal environment where participants can interact with each other and learn how to become well-rounded individuals. The session mainly focused on how to manage a healthy work-life balance which in the case of college students meant managing studies, assignments, and the various committees or clubs they are a part of. The informal nature of the session helped the participants to put forth their opinions freely and fully. While the other subtopic was based on how one must introduce themselves in a formal environment.



Day 2:

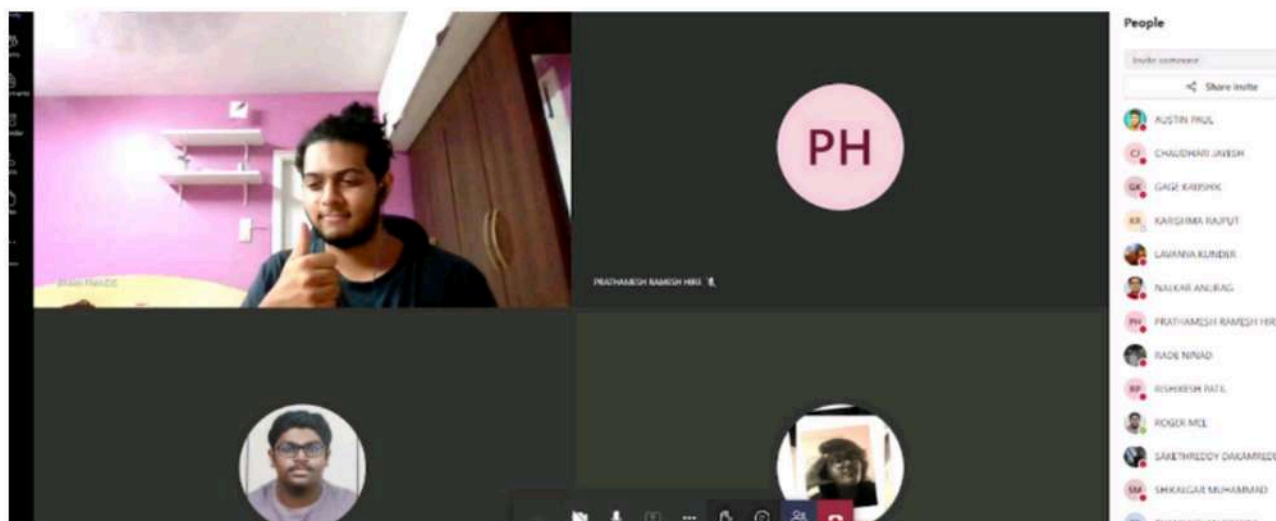
a) Instructors: Bryan Francis

b) Time duration: February 3, 2022 6:00 PM – 7:30 PM

c) Topics covered: Internships

d) Session Flow:

The majority of the participants were students in their first and second years and thus were interested in learning about internships. The instructors walked through the different platforms where students can search and apply for internships. The participants were taught how to build a professional network by leveraging the power of different platforms like LinkedIn. The participants were also encouraged to take up internships that were out of their comfort zone as it would help them in building a well-rounded profile. While also figuring out how one decides the industry they wish to work in.



Outcomes

- The students gained important soft skills and knowledge about communication in professional settings.
- The workshop helped the participants to add one more skill to their repertoire
- The workshop helped students find out how to present themselves in formal gatherings.

ACCESS 2022

Student Coordinator: Ms. Aaditee Pate

Staff Coordinator: Ms. Snehal Nikalje & Mr. Abhijeet Pasi

ACCESS 2022 started with a holy note with the virtual lighting of the lamp along with the prayer song by Rhythm - Music Club at FCRIIT. Then CSI President Ms. Aaditee Pate welcomed all the participants, speakers, and guests. The event then moved on to a brief speech from CSI Converner Ms. Snehal Nikalje.

Objectives

- Understanding AL and ML technologies and the latest trends.
- Understanding Cybersecurity, Information Security, and the various career options in these fields.

SESSION 1

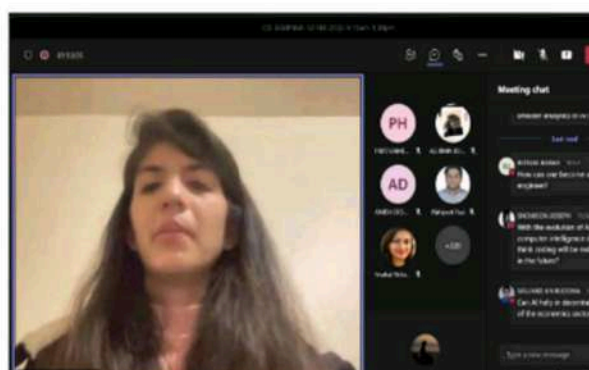
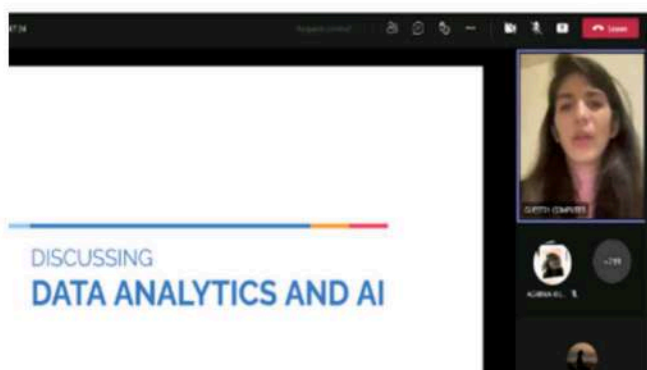
1. Name of the speaker: Dr. Sheetal Thakkar

2. Time Duration: 9:15 - 11:15 AM

3. Topic: AI and Data Analytics

4. Flow of the Session :

The webinar focused on the importance and development of Artificial Intelligence(AI) in various sectors of the industry and their contribution to human society. Dr. Sheetal gave us a quick rundown on data analytics, data science, and their outstanding collaboration with AI. The discussion moved on to the various industry trends brought about by AI such as explainable AI, generative AI, and deep fakes, AI and mixed reality, Real-time processing, accompanied by examples of their application in our daily lives such as the recent #NotJustACadburyAd which helped support countless small businesses through generative AI algorithms.



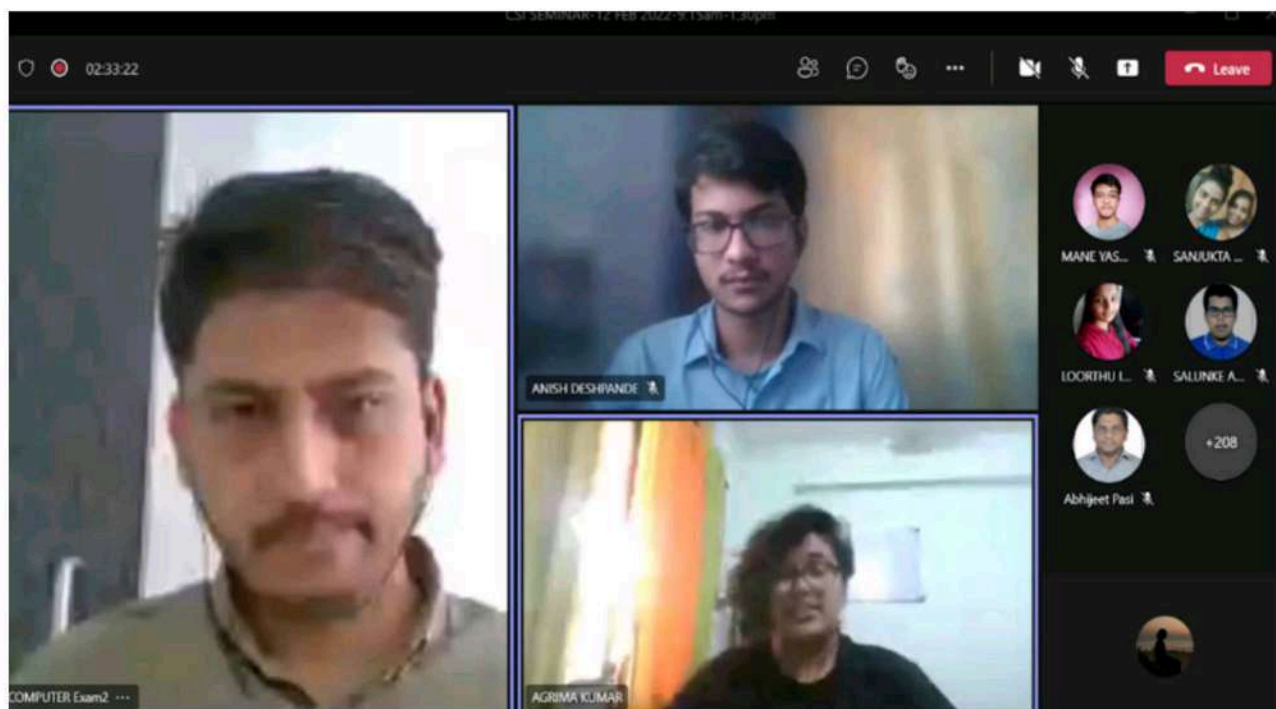
A brief overview of the different career options such as business analyst, data analyst, data engineer, and the skills required to thrive in their respective industry was thoroughly provided. We were enlightened about myths regarding data science e.g Data science is all about building models, which were proven false.

The next half of the session focused on the virtues that lead to the making of a good data scientist, these included curiosity, story-telling, technical expertise, and patience. It was insightful to know about the various learning resources of AI and data analytics. A Q&A session at 11:00 am was arranged wherein Dr. Sheetal answered students' queries about the use of A. I in data collection, the ethical and legal side of AI, and the role of cloud computing in AI.

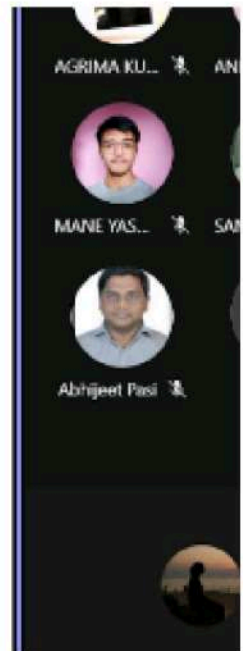
SESSION 2

1. Name of the speaker: Mr. Anuj Sanghvi
2. Time Duration : 11:30 - 12:30 PM
3. Topic: Cybersecurity
4. Flow of the Session :

The webinar focused on the Cybersecurity domain and its importance in today's technological world. The session started with the introduction of the speaker.



Mr. Sanghvi is a cybersecurity researcher and network security engineer with the Secure Cyber-Energy Systems group at the National Renewable Energy Laboratory (NREL). He leads the research and development of NREL's Distributed Energy Resources Cybersecurity Framework (DERCF), and his expertise is in identifying security controls for and testing industrial control systems. As a research engineer, Sanghvi has done intensive research in building the DERCf assessment questions and developing reference architecture models for electric vehicle fast-charging infrastructure. Mr. Sanghvi received his M.S. in electrical engineering from San Jose State University with a focus on networking and security.



The speaker took us through his learning journey. He worked in satellite communication after graduation where he learned the importance of networks and networking. Then he pursued his master's in electrical totally of his love of networks. He started as a network security intern that's where he learned all about networks and their various components like switches, routers, firewalls, access control lists blocking, whitelisting solutions, and so on.

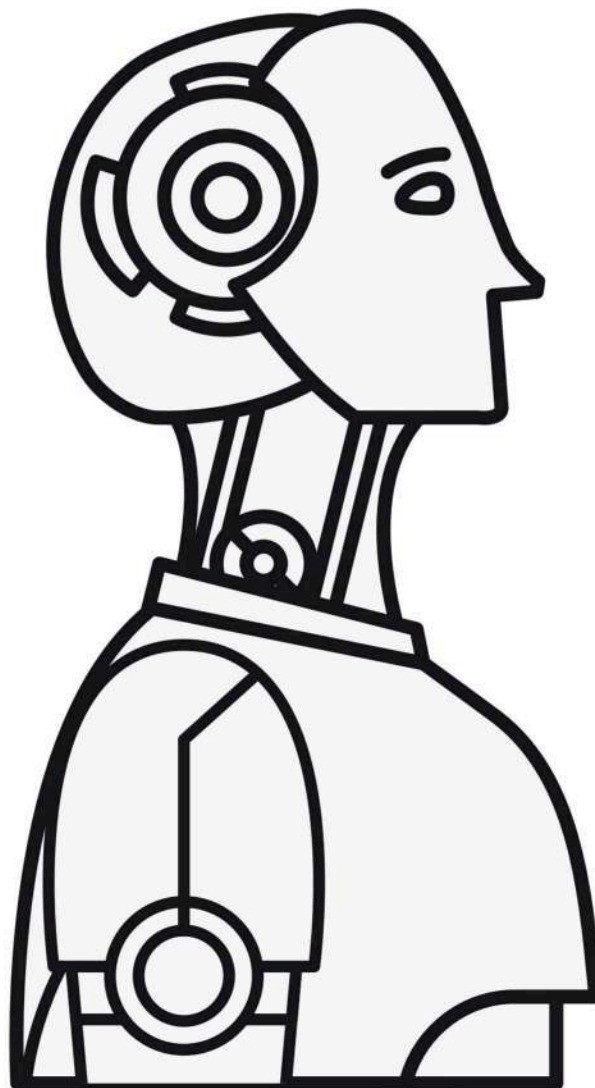
Moving forward, the speaker went on to shed some light on Operational Technology which is a part of Cybersecurity. He explained that operational technology is the life and the infrastructure that networks operate on.

It was insightful to gain knowledge about an unpopular side of Cybersecurity and its implementation and methodologies.

Mr. Sanghvi went on to explain the regulations and the laws of compliance within the world of Operational technology. He explained the real-world usage of these laws and regulations.

This webinar aroused the curiosity in the students about the domain of Cybersecurity as they all started to clear their doubts and questions in a solid QnA round which went on to last for 25 minutes. Even the faculty members got their doubts cleared during this round.

The event concluded with a vote of thanks by CSI Vice President Mr, Trevor D'costa.



The background is a dark, teal-toned collage of mechanical elements. In the top right, there's a line-art style illustration of a piston and a gear. In the bottom left, a wrench is partially visible. A large, out-of-focus gear dominates the right side. A bright, cyan-colored laser beam or energy burst emanates from the left, pointing towards the center. Several small, rounded square shapes are scattered in the top left corner.

MECHANICAL ENGINEERING

INAUGURAL CEREMONY

The Council of vibration Specialists installed a student chapter at FCRIT Vashi under the mechanical department. This chapter has been introduced to make students aware of the practical activities happening around the world in the field of vibration. The inaugural ceremony of CVS student chapter took place on 11th April 2022 in the esteemed presence of Dr. Harvinder Singh Gambhir the President of CVS, Dr. Tarapada Pyne the Secretary of CVS, Dr. Srinivas Voggu, Dr. Arun Jalan, Dr. Chinmaya Kar, Dr. Vasant Matsagar and a FCRIT Alumni. It was also graced by our principal Dr. SM Khot, head of department Dr. Nilaj Deshmukh, and faculty advisor Prof. Shoumik Kulkarni.



The event commenced with the lamp lighting ceremony by the dignitaries followed by the digital inauguration of CVS student chapter Dr. Harvinder Singh Gambhir. Principal Sir Dr SM khot and head of department Dr. Nilaj Deshmukh shared a few words of wisdom with the audience following, Dr. Arun Jalan, Dr. Srinivas Voggu, Dr. Chinmaya Kar, and Dr. Vasant Matsagar our guests of Honour who were present through the online mode gave brief perspective about Vibration study and its need. Our Chief Guest Dr. Harvinder Singh Ghabhir spoke on a varied range of topics like Technology, History, Management, and leadership.

The vibration of Dr. Gambhir's experience in the Reliance industry of oil and gas, Jamnagar left a huge impact of inspiration on students. Speaking on the occasion Dr. Tarapada Pyne said that, the purpose of this organization is to provide its members opportunities to gain broader insight into the engineering profession by sponsoring meetings that will bring practicing engineers to the campus, arranging field trips and workshops to research and engineering establishments, sponsoring student projects of engineering interest, and participating in local CVS Section activities. The ceremony then concluded with a presentation of mementos to the guests of honor and a vote of thanks by Mr. Nageshwar Avhad, the president of CVS Club Council.



Council members:

President: Nageshwar Avhad

Vice President: Tejas Patil

Secretary: Mr. Pawan Gole

Treasurer Shivam Salunke

Creative Committee:

Mr. Suyash Patkar

Mr. Pratik Patil

Mr. Chinmay Desai

Documentation Committee:

Mr. Parv Shah

Mr. Rushikesh Suryawanshi

Mr. Savio Thaikadan

Public Relation Committee

Mr. Suyash Bare

Mr. Chirag Kevat

Mr. Rupay Baskey

Sponsorship Committee:

Mr. Hrishikesh Gulve

Mr. Bhavarth Choudhary

Members

Mr. Sanchart Raina

Mr. Shubham Thorat

Mr. Viraj Bhapkar



INDUSTRIAL VISIT: KRUGER VENTILATION

ISHRAE council organized an industrial visit to Kruger Ventilation Industries (India) Pvt. Ltd, Shahapur, Thane on 16/11/2021. A total of 13 students participated in the visit including students, engineers and faculty members. The main motive of this visit was to learn how a ventilating equipment manufacturing factory operates and how a ventilation system is designed and fabricated in detail. The speakers delivered every bit of knowledge to the participants. They talk about different applications of FAN, process of FAN selection according to CFM, selection criteria of the FAN as per static load, different shapes and types of blades used as per load requirement. The students also gained hands-on experience of different Axial Fans, Centrifugal Fans, Domestic Fans, In-Line Fans, Jet Fans, Mixed Flow Fans, Roof Exhaust Fans and Tunnel Fans. KrugerVent is Kruger's one stop product selection software. This web-based software will guide you in selecting the product, budgeting and also submittals from the beginning to the end of your project. It is able to adapt to the different situations that may appear. The visit ventilated their doubts of how the Ventilation system is designed and manufactured.



K 12 ACTIVITY: EDUCATIONAL SESSION

ISHRAE council conducted an educational session on environment awareness, methods to protect environment and how renewable energy can be used in an innovative manner. The event took place on 19th November 2021 at seminar hall, Bal Bhavan, Agnel technical education complex. The nature participants varied from 1st - 10th standard. All young environmentalists actively participated in session making the session more interactive. The main objective of the program was to create awareness regarding the climatic changes and its effects on the environment, educate the students about various renewable sources of energy, and introduce various ways to protect the environment and biological ecosystem. The session commenced at 8:45 am in seminar hall of Bal Bhavan where topics like global warming, plastic waste, pollution and its effects and possible solutions were demonstrated in video format by Mr. Baniz Antony.





Further topics like possible sources of energy such as solar, wind, nuclear and tidal energy were covered by Nilesh Varkute Sir, the students were informed about the need of clean energy. To develop a firmer base the above topics were explained in video format using a projector. The event concluded at 10 am with QnA session and students learned the ways to dispose of plastic waste and reduce pollution in order to prevent climatic changes which are harmful for the environment. Scientific mindset was developed among the students in order to find ways to eliminate conventional sources of energy by renewable sources of energy.

K12 ACTIVITY: SPORTS SESSION

The ISHRAE council had organized a sports event in Main lawn, Agnel Technical Education Society, Vashi on 20/11/2021. The event's main motive was to inculcate students the importance of sports and how it is vital for human health. The event began at 10 am in the main lawn of Agnel Technical Education Society where students from 1st to 10th standard were keyed up to participate in the events being conducted. Tug of war among students marked the beginning of the event where students from standard 6th – 10th divided into two groups and pulled the rope against each other under the guidance of Prof. Nilesh Varkute and Prof. Badal Kudachi.



After tug of war, a musical chair competition was held among students from classes 1st to 5th, where each candidate played the best of their matches and indeed the competition was delightful to watch. Later the event continued with a passing the parcel match where students of classes 6th to 9th standard were made to pass the parcel whenever the music played and after the music stopped whoever holding the parcel was made to perform a given task. The candidates enjoyed the event and participated in all the events wholeheartedly. After playing tirelessly the participants were exhausted hence to build up their energies snacks were provided to them by the volunteers the session then concluded with the valedictory ceremony where the winners of respective competition were awarded their prizes and the students were made aware about the benefits of sports how it improves the health, posture and flexibility, helps to increase metabolism and mental health, increases blood flow and self-esteem within oneself.



K12 ACTIVITY: MOTIVATIONAL SESSION

ISHRAE council conducted a motivational session on self - confidence, career guidance and hard work. The event was conducted on 21st February 2022 in Zilla Parishad Prathamik Shala, Ambele, Murbad, Thane. Participants involved were aged between 10-12 yrs. The young minds were highly energized and welcomed the speakers wholeheartedly. The main motive of the program was to deliver or induce self confidence in each individual, guide them through the opinions on career choices and introduce various ways to work hard and to build an attitude of personal development. The session began at 4 pm in the classroom of Zilla Parishad Prathamik Shala areas of self-development and personal growth were introduced to the students by Mr. Shubham Dixit. The program continued till 5 pm where the children were enlightened with the various career opportunities present. They were also informed about the need to be confident, hardworking, to build a healthy attitude and how these parameters play an important role in personality development. The session was made interactive and enjoyable by the audience and the council and the main objectives of student being confident, hardworking, to build good attitude and professional mind-set was developed among the students in order to find ways to choose their career wisely and to focus on one thing at a time to be productive and qualitative.



K12 ACTIVITY: YOGA SESSION



ISHRAE council conducted a yoga session in Seminar Hall, Bal bhavan, agnel technical education complex on 18/11/2021. The main objective of the program was to increase awareness regarding physical and mental health in the form of Yoga asanas.

K12 ACTIVITY: YOGA SESSION

The session was guided by yoga guru Dhruv Kabra where total 52 students from Bal Bhavan participated in the session under the presence of Prof Badal Kudachi. The session commenced at 7 am by performing various asanas and basic exercises. Each yoga asana was 8-10 mins long where younger students were made to perform comparatively simpler asanas the older the students. The foremost asana performed was an omkara asana where the students were made to concentrate on the sacred sound of the Om mantra, which is believed to represent Brahman, or Absolute Reality followed by other asanas which included

Kapalbhati : Vatakrama kapalbhati is the Yoga in which exhalation is forced while inhalation is natural and passive.

Surya namaskar : It provides a complete work-out for body, mind and spirit. It is an energizing and efficient way to connect with inner strength and stability and is often used as a warm-up at the start of a longer yoga practice.

Vrikshasana : Vrikshasana or Tree pose is a balancing asana. It is one of the very few standing poses in medieval hatha yoga, and remains popular in modern yoga as exercise.

Demo of Nauli : Nauli kriya is a cleansing technique that involves the abdominal organs and muscles moving laterally and vertically in a wave-like motion.

Shirsasana : Shirshasana or Yoga Headstand is an inverted asana in modern yoga as exercise, it was described as both an asana and a mudra in classical hatha Yoga.

The hour-long session taught students the culture of yoga and its benefits in daily life. Concepts like metabolism, physical fitness and correct posture were introduced to the students.

ONLINE TREASURE HUNT

ISHRAE council organized an online treasure hunt event via discord mode on 12 th February 2022. The main objective of this session was to engage students in a problem solving activity to sharpen their critical thinking ability and to install a critical thinking mindset in the participants. The participants had come from overall Maharashtra including the council and faculty members. The event was conducted under the guidance of faculty Prof Nilesh Varkute, Prof. Badal Kudachi and Prof Neha Pandit. ISHRAE council members Ms Marmika Saxena and treasurer Ms Sana Tiwade were the hosts of the event, which began at 7 pm. Mr Vivek Marde was the chief guest of the event. Introductory speech by Ms Marmika Saxena and vote of thanks by Ms Sana Tiwade to the horrible chief guest marked the beginning of the event. The event involved solving technical problems and included critical thinking methods to solve and achieve the clues. The hints were typically based on engineering problems where participants had used their engineering and practical knowledge to solve the given clues. A total of 13 teams of 31 students from all over India participated in the online treasure hunt. The event concluded at 9 pm with an online valedictory ceremony where the winners 'Team 2' whose members were Rutwik sakte and Siddharth Poorji were awarded a prize money of 2000 Rs and the runner up i.e 'Team 4' were awarded Rs 1500 as the prize money. The participants learned and enjoyed the event, each individual could test their practicals solving skills and developed Critical thinking mindset in order to solve problems and be rational in their way of thinking.



INDUSTRIAL VISIT: ZECO AIRCON LIMITED

The industry visit to ZECO Aircon limited, Atgaon Thane was conducted on 16th November 2021. The main objective of the visit was to study in a very interactive form about how an AHU Manufacturing factory operates and how an AHU is designed and fabricated in detail. Zeco Aircon Limited is manufacturer of Air Management System, delivering reliable and superior quality products to its customers. With incredible expertise in design and selection of Air Management System, the company serves the customers according to the application with innovative technology, high quality and cost effective solutions.



The company engineers being adept in their field shared every bit of their knowledge hence making the session interactive and allowing them to verify every theoretical learning. Participants learned various manufacturing methods of their product which included Air Handling Unit (AHU) – Double Skin/ Single Skin, Fan Coil Unit (FCU), Air Washers (Evaporative Cooling Unit) – Single / Double Stage, Air Scrubber-Wet type/ Dry-type (ESP Technology), Rectangular Factory Fabricated Duct (GI /AL/SS), Pre-Insulated Ducting (PIR Panel Duct). The knowledge and breezed the minds of participants which piqued interest in the HVAC field and other fields which go hand in hand with HVAC.

TORQUE

SAE India FCRIT is a collegiate club that focuses on fuelling students with automotive knowledge. It conducts various technical events throughout the year, torque being its main highlight. It was conducted on the first day of etamax i.e 10th March 2022. Torque is a nitro radio-controlled car racing competition where exuberant & zestful participants race their RCs on tracks full of obstacles.

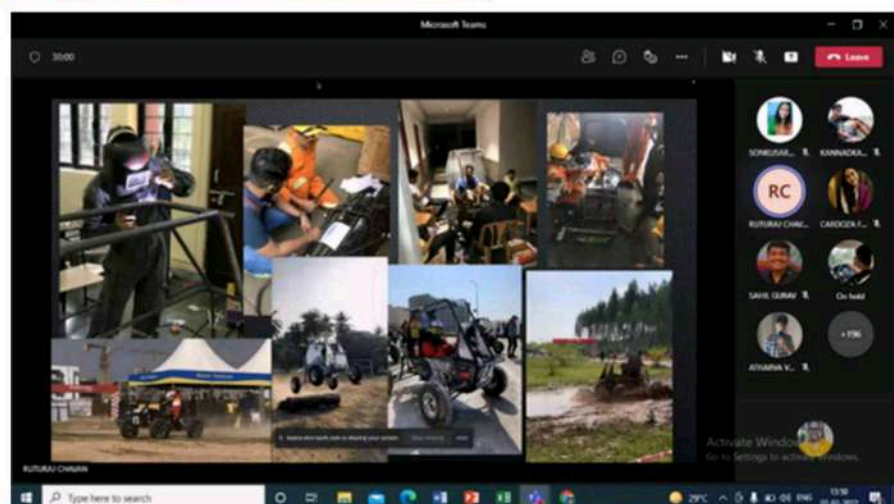
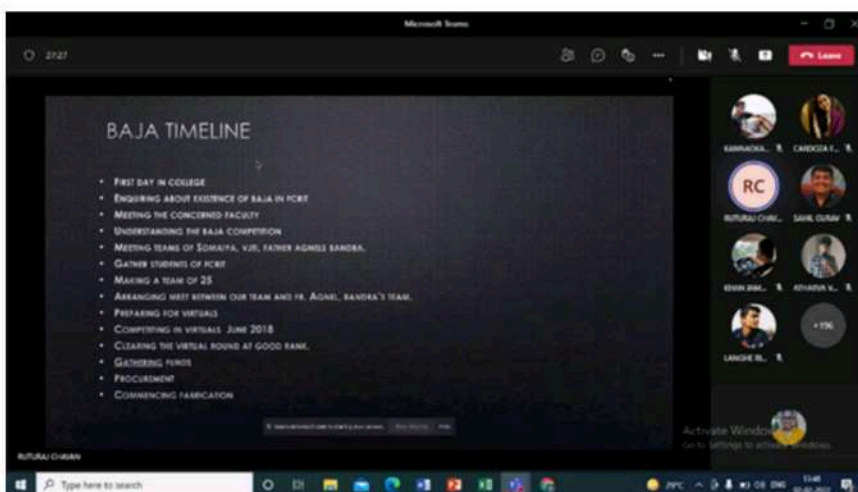


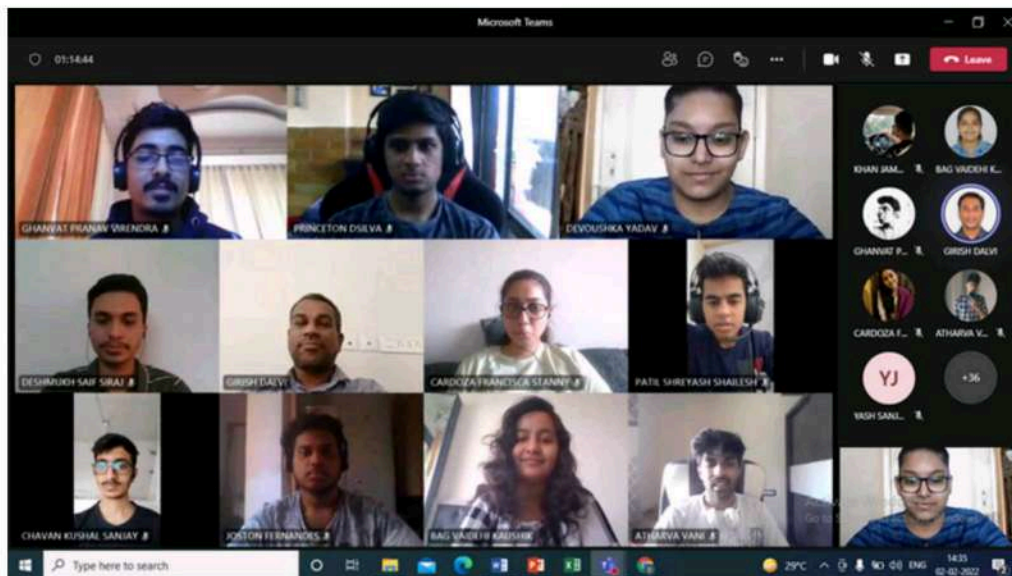
This year the inertia of rest from the pandemic of all participants was overcome by highly driven "Torque 2022". The Torque 22 had conducted various track events including endurance races, stunt racing, and drag racing. The indefatigable work of supporting staff, council members, and volunteers made the event successful. Participants included students from overall Mumbai involving students of FCRIT and other colleges. It captivated a huge section of the audience including the entire staff and students. The participating teams gave the audience a splendid, brief, and elaborative show of their respective RC cars along with some fine driving lessons. They were also kind to share tips about maintenance and car building with the enthusiasts present. The winning team was awarded a cash prize of INR 5000 by the guest of honor which included Fr Sebi, principal sir Dr. SM khot head of department Dr. Nilaj Deshmukh with all other faculty members of the mechanical department.



ENGINEERING THROUGH MY VIEW - WEBINAR

SAE INDIA FCRIT conducts various webinars and seminars to provide digital solutions to the technical problem, among them is an annual expert lecture series called 'Ignition X' where industrial experts or alumni ignite innovative minds to solve any technical problem with their words of wisdom. The event was conducted on 2nd Feb 2022 giving insights into the engineering journey of the speaker Mr. Ruturaj Chavan alumni, ex BAJA captain, and a vibrant team player who was adept in his field of knowledge. The session began with the speaker's introduction to his experience of engineering and how he perceived and pursued it. Mr. Chavan is the former of 'Team Kaiser Racing' and had a venturesome approach during his engineering days. The drive down to his memory lane of experience motivated the student toward an innovative and technical world.





Speaker emphasized interpersonal skills, an open approach to applications, and project-based learning. He shared his struggle in the initial days of forming team Kaiser and the car. He mentioned the support given by the faculty without whom just like the racing car he wouldn't withstand his journey. He also spoke about the on-field journey of the car and how they bagged the prize. The open, frank, and robust nature of the speaker engaged the students. He shared how participating in multiple clubs and cells helped him develop his personality. Mr. Chavan then made us aware of the placement training sessions and why he chose placement over higher studies. He explained to us the advantages and limitations of placement and higher studies. The session was then concluded by the QnA section and a vote of thanks by the SAE council. The session 'engineering through my view' changed our perspectives on engineering.

CALIBRE EVENT

The student council of MESA conducted an annual event 'Calibre' which unwraps the technical potential of participants in a creative manner. The event was conducted from 7th April 2022 to 9th April 2022 various activities took place during the conduct of the event.



Day 1 events included Caddict where the participants were supposed to draw any given 3D practical model on the given software then the qualifiers of this round were sent to round 2, here the participants had to create an assembly of given object within the allotted time span and Dream F1 which was a treasure hunt competitions where students had to use their technical skills to solve the clues given. Each competition had prize money as their awards.

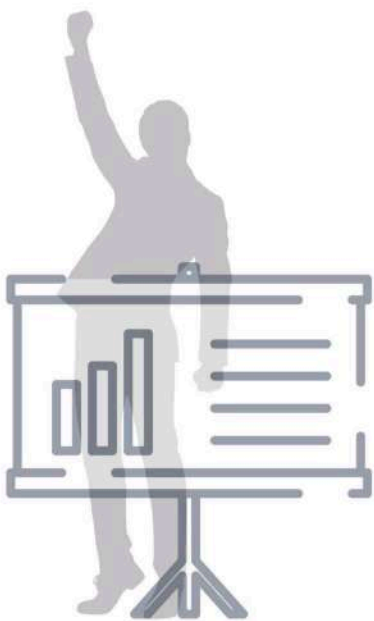
Day 2 events consisted of National level technical paper presentation (NTPC), National level poster presentation competition (NPPC), Rocket X, Quiddo and round 2 of Dream F1. In NPPC & NTPC participants had to present their posters and technical papers of project made to the jury whereas in Rocket X students had to create their own launcher and rocket under the guidance of faculty advisors and student council later each team was allowed to launch their rocket thrice, the winners were decided on the basis of projectile distance.



Quiddo was a technical game where students had to use their theoretical and practical knowledge to escape the room and whichever team completes the given task in the allotted time wins the competition. 9th April or the last day of Calibre event this day too had multiple events including NTPC round 2, NPPC round 2 Quizophile and valedictory ceremony. The jury for final rounds of NTPC and NPPC included Mr. S.P. Singh and Mr R.K. Modi.

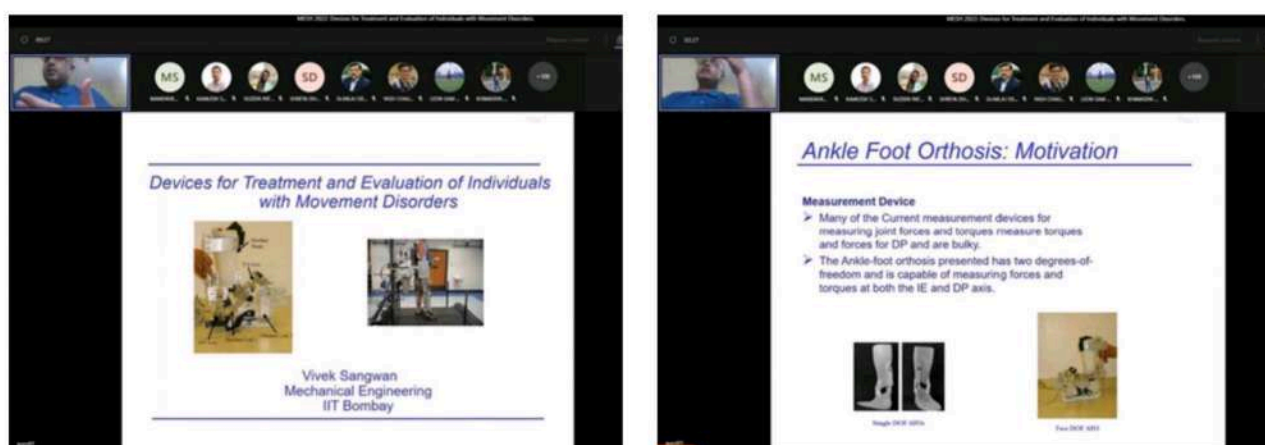


Quizophile on the other end was a technical MCQ based event. Valedictory ceremony marked the end of the event. The session commenced with a brief introduction about the event 'Calibre 2K22' which was given by the hosts followed by a brief introduction about the college and its departmental clubs was given by its respective student heads. The guests of honour Dr. M. B. Dagaonkar, Er. Keshav K. Varkhedkar, Dr. Kishanaro M. Godbole, Er. Vijay C. Kamble, Cdr. Dr. Bhaskar Bhandarkar, Er. Sanjay R. Bagul, Dr. Samir C. Nimkar, head of department Dr Nilaj deshmukh and Principal Dr SM khot were welcomed by bouquet. They later addressed the attendees and spoke a few words about the college and the event. Their words of experience and knowledge motivated and inspired the students. The prize distribution ceremony began with awarding appreciation certificates to sae and mesa council for their efforts throughout the semester followed by the winners who were honoured by their prizes won for respective competitions. The event concluded by a vote of thanks delivered by the vice president of MESA.



MESH 2022

Mesh is an annual event conducted by the student council of MESA which intends to bridge the gap between the industry and the institute. Mesh was derived from the concept of meshing of gears, it was applied to the educational level so that the students mesh with industry and gain knowledge about industrial trends. It integrates academic technical knowledge with latest industry trends. Mesh conducts various seminars on emerging technologies and methodologies adopted by the industry. Expert speakers in the respective domains are invited to give extensive and knowledgeable insight about the ongoing industrial trends. This event facilitates a vigorous industry-academia interaction, thereby benefiting the students as well as the faculty members. The industry in turn gets the opportunity to identify the value addition required for the institute in order to turn the future endeavours into high class professionals.



This year, Mesh 2022 was successfully organized and conducted virtually. The webinar was held on February 12, 2022 via the online platform Microsoft Teams. The event began at 9 am with vibrant participation. The guest of honor included Dr Vivek Sangwan from IIT Bombay who briefed students about 'Automation' trend in the industry. The speaker introduced the technology of automation to the audience explaining its importance and applications in the industry. The Speaker also mentioned that automation is the technique that avoids human intervention in the industry, it includes the use of various equipment and control systems such as machinery, processes in factories, boilers, and heat-treating ovens, switching on telephone networks, steering, and stabilization of ships, aircraft, and other applications and vehicles with reduced human intervention.

SD G

GBQ: Experiments with Healthy as well as Stroke Affected Individuals

SD G

Cable Driven Upper Arm Exoskeleton: Motivation & Challenges

- A puppet like cable drive system has a potential of being light weight and portable as opposed to systems designed using rigid linkages.
- However, because cables can only pull and not push, controlling a cable driven device is significantly harder.
- Because of these pull/push limitations, the dynamic/static workspace available is also significantly smaller compared to a conventionally actuated system.

The guest effectively explained the basics of automation and also described the future scope. He inspired the audience and encouraged them to join the field due to its growing scope. The event finally concluded with the Q&A session from the audience and a vote of thanks from the committee members. The host gave us an interesting comprehension about the possible developments and challenges in the respective fields.



EXTC

ROBOTRIX

Date-22nd March 2022

Organized By-Dr.Prasad Kulkarni (Assistant Prof, Department of EXTC), Chetan Velonde, Abhinav Jha.

The main objective of this event was for the students to learn to build the most basic bot from scratch. To bolster students' confidence, teams are encouraged to compete in terms of creativity, and innovation and have a great team-building spirit.

Starting with the event, a bot was made by the team and was driven by the team members in the arena provided by the organizer. Every team had performed activities, i.e. line following, turn, rotate, obstacle avoidance, push and place the object using their bot. A grading was assigned to each activity. Each team has two chances to complete the activity. 7 people participated in the event. There were three winners from the EXTC department and four runner-ups from the Mechanical department. The winners are as follows

Sr. No	Name of the participants	Prizes	Branch
1	Rushikesh Sooryavanshi Mokshada Wani, Shivali Dhanji	Winner	EXTC
2	Princeton Dsilva, Joel Dsilva, Jorson Fernandes, Joston Fernandes	Runner-up	Mechanical

It helped the team to form the team and complete the task with teamwork

According to the Summary, The feedback was positive and encouraging. But the timings for the event can be improved.



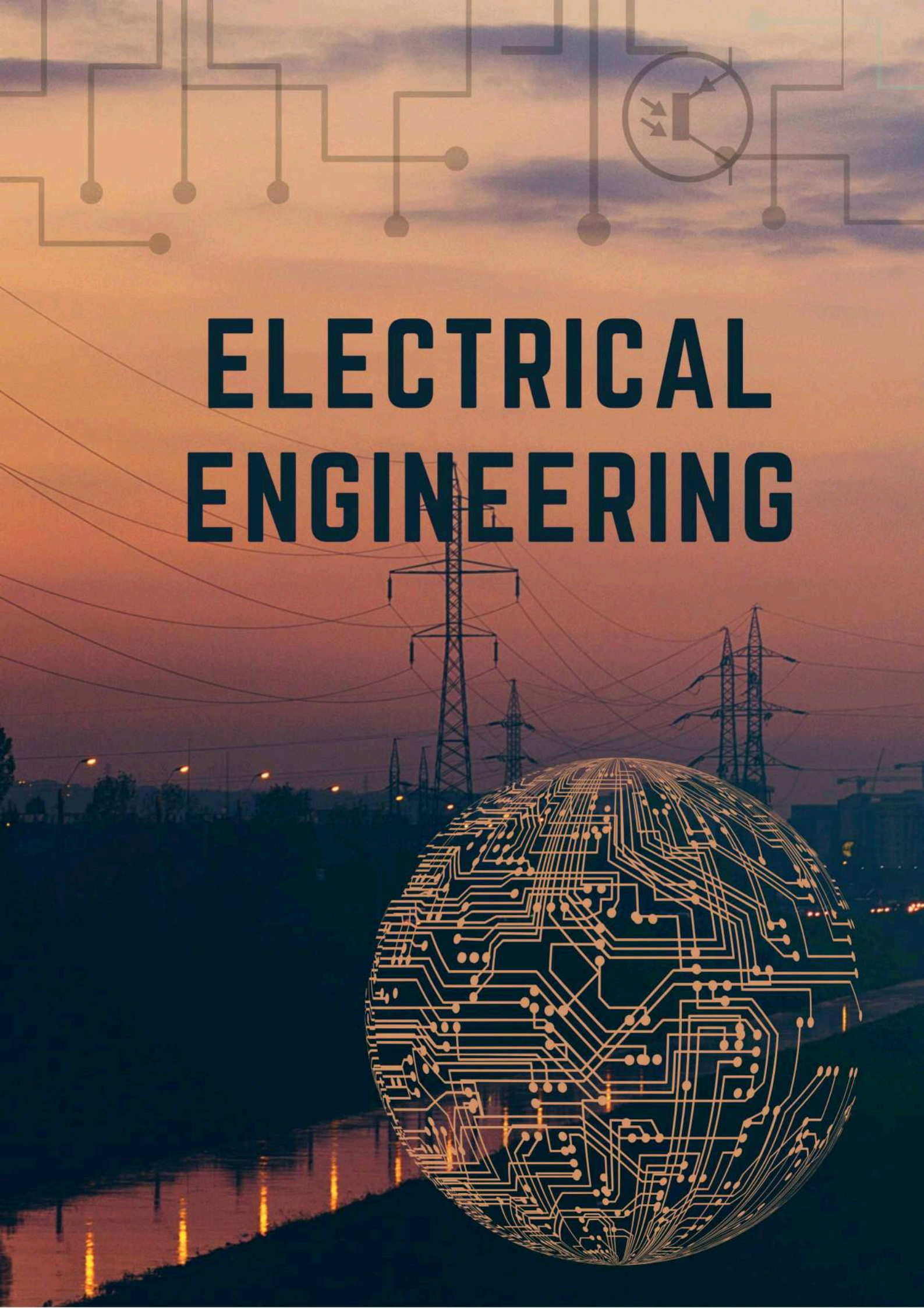
The Organizing Team



Runner-ups



Winners

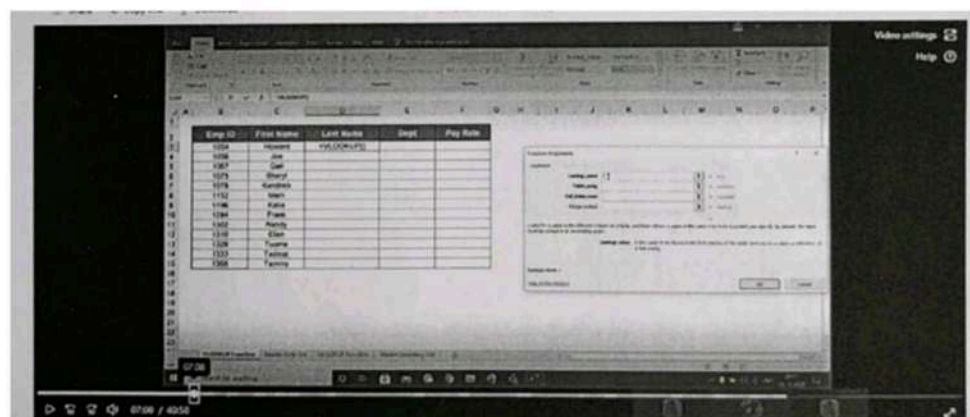
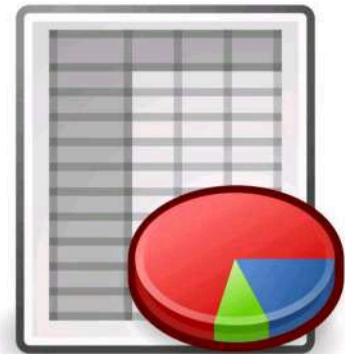
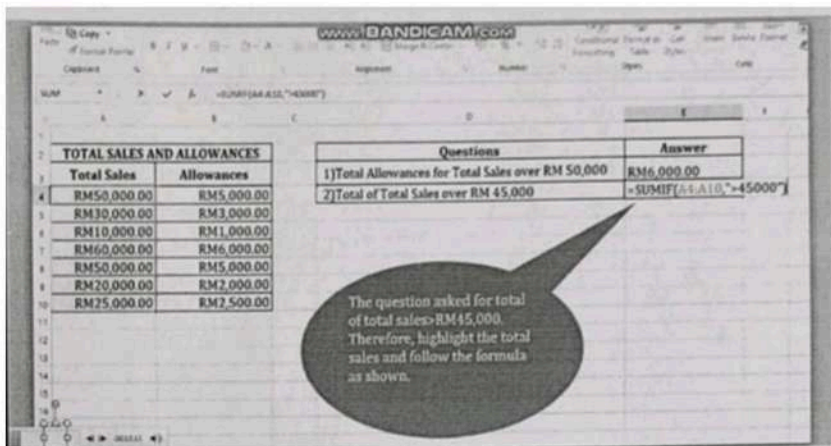


ELECTRICAL ENGINEERING

EESA: Spoken Tutorial on MS Excel

The broad benefits of learning Excel include faster and more accurate decision making, quick calculations, seamless data visualization, and a lot more. Many students across the globe are waking up to these benefits and starting to master the art of Microsoft Excel.

A spoken tutorial on MS Excel was conducted for semester 4 students from January to April 2022. Videos prepared by previous EESA council members were shared through Google classroom. These videos included topics explaining the use of Excel sheets, and different features of MS Excel that can be used by Engineers. The participants had to go through different videos and submit assignments based on them, in order to earn a certificate.



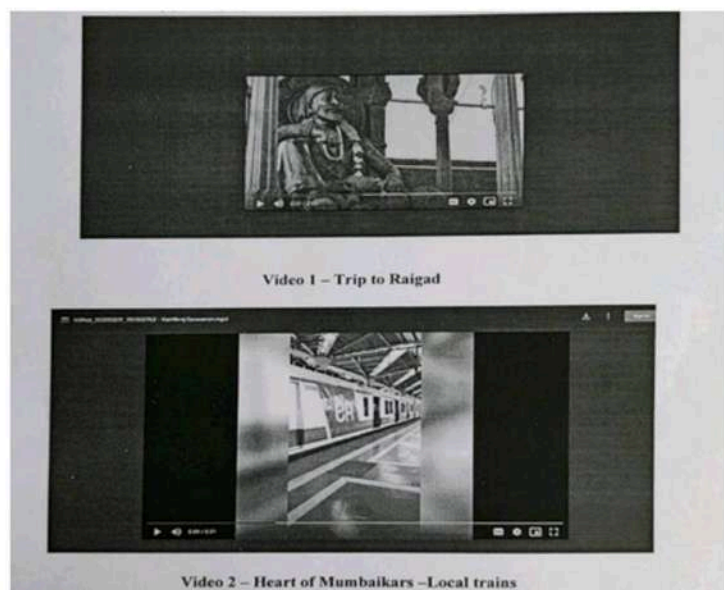
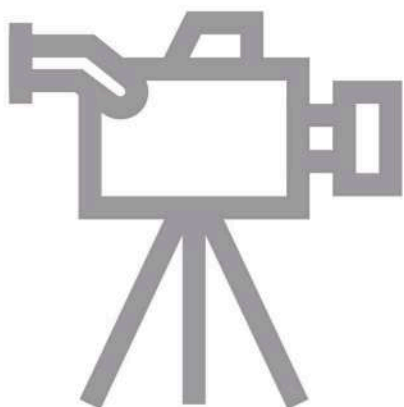
Indoor Content Creation Event

Creating content is another way to engage students in learning. Creating content has been further enabled by technology. Previously, students could only create content on paper by employing limited resources and by accessing public libraries. Students from the “Net Generation” can create audio content as podcasts, access the Internet for additional information, create videos, multimedia slideshows with PowerPoint, and use a variety of other content creation tools.

A short video making competition was arranged for the students of the electrical department. The maximum allowed video duration was ten minutes. Students had to make short videos based on themes like “social”, “entertainment” or “school days” and send them by 29th March 2022. Three best videos were selected from those submitted.

Prize winners:

- 1st prize: AKASH METHA (401875)- SEM 8
- 2nd prize: KARTIKRAJ EASWARAN (4019165) -SEM6
- 3rd prize: NISHANT MISHRA (401732) -SEM 6



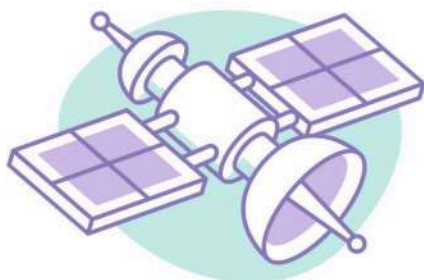
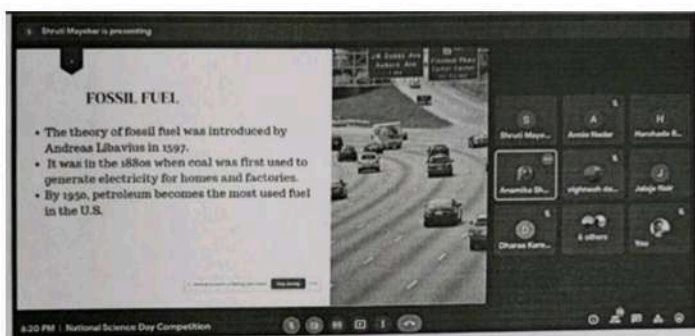
Science Day Celebration

National Science Day is celebrated in India on 28th February each year, to mark the discovery of the Raman effect by Indian physicist Sir C. V. Raman, on 28th February 1928. For his discovery, Sir C.V. Raman was awarded the Nobel Prize in Physics, in 1930.

National Science Day is celebrated to spread a message about the importance of science used in the daily life of the people and to display all the activities, efforts, and achievements in the field of science for human welfare. It is celebrated to discuss issues and implement new technologies for development in the field of science, to give an opportunity to the scientific-minded citizens in India, to encourage the people as well as popularize science and technology.

A competition was arranged to celebrate National Science day. Participants had to research significant inventions in the field of Science & Technology that proved to be milestones for the present. The competition was conducted on 5th March 2022 and was judged by Jalaja M. Nair, a retired Electrical Engineer.

Students were able to familiarize themselves with important inventions in the field of Science & Technology that proved to be milestones in their development.



IoT Workshop

The “Internet of Things”, or IoT, is a system of interrelated computing devices, mechanical and digital machines, objects, animals, or people that are provided with unique identifiers (UIDs) and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction.

Applications of IoT can be heart monitor implants in people, biochip transponders in farm animals, automobiles that have built-in sensors to alert the driver when tire pressure is low, or other natural or man-made objects which can be assigned an Internet Protocol (IP) address and are able to transfer data over a network.

Increasingly, organizations in a variety of industries are using IoT to operate more efficiently, understand customers better to deliver enhanced customer service, improve decision-making and increase the value of the business.

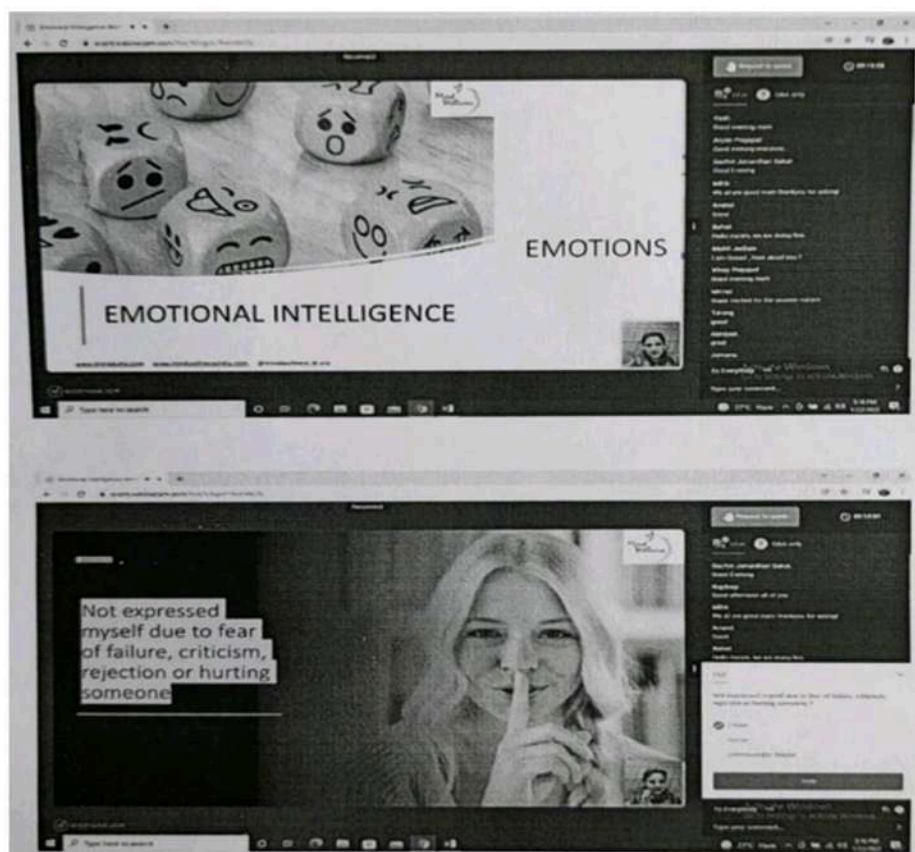
A workshop was conducted for students of semesters 4 and 6 to learn basic concepts of IoT and a demo of IoT projects using both online and offline platforms was given. The workshop, apart from giving knowledge about IOT, also exposed students to various IoT projects that they can undertake.



Emotional Intelligence Workshop

Emotional intelligence (otherwise known as emotional quotient or EQ) is the ability to understand, use, and manage your own emotions in positive ways to relieve stress, communicate effectively, empathize with others, overcome challenges and defuse conflict.

An online event, Abhyuday, in collaboration with IITB, was arranged for students of semesters 4 and 6 on 22nd January 2022. The topic for the same was "Emotional Intelligence". The speaker Dr. Era Dutta, who is a Consultant Psychiatrist, Therapist, Life wellness coach, and founder of Mind Wellness, conducted an interactive session where "Emotional well-being" was discussed. This included factors affecting our emotional health like fear, anxiety, depression, etc., and how to overcome these. Students were able to understand the importance of emotional health and how it can help in realizing good mental health.



VIDYUT: Beyond Engineering

BEYOND CLASSROOM EDUCATION

Education beyond the classroom is learning outside the classroom, using places other than the classroom for teaching and learning. It is about getting young people out and about, providing them with challenging, exciting and different experiences to help them learn.

Education beyond the classroom can help teachers create enthusiasm for learning, provide a real-world context and expose students to a range of STEM careers. Students who experience learning outside the classroom benefit from increased self-esteem and become more engaged in their education.

A seminar was arranged for third and fourth year students on the topic "Beyond classroom education". The session was conducted by Mr. Clinton D'Souza, Founder of Beyond Classroom Education. The speaker gave an idea about challenges that students would have to face after completing Engineering, and how they can prepare themselves to face them.



CRACKING GATE EXAM

GATE is one of the finest examinations in India and the purpose of GATE exam is to scrutinize the core knowledge and subject ability of the student and how much they are acquainted with their graduation disciplines. This is a very important step that helps the exam officials to shortlist those students who can crack the examination.

Graduate Aptitude Test in Engineering is an All-India test, authorized and managed in eight regions across the nation. The exam is conducted by the GATE Committee, faculty members from IISc, and seven other IITs on behalf of the Ministry of Human Resources Development, National Coordinating Board, and Department of Education. The purpose of the GATE exam is to test students' knowledge in subjects like Engineering and Science.

The GATE scorecard is also used by multiple PSUs (Public Sector Undertakings) to recruit applicants for distinguished jobs at Indian Oil, GAIL, Hindustan Petroleum, etc.

A seminar was arranged for TE and BE students on the topic "How to crack Gate exam". The session was conducted by Dr. Sangeeta Das, Assistant Professor, Electrical Engg. Dept., FCRIT. The speaker gave an idea about how students can prepare themselves for appearing for GATE to ensure success in the exam.



STUDY ABROAD

The Indian students going abroad to study are adding to one of the largest groups of emigrants (estimated to be about 18 million Indian people) at a very high rate. There is a rise in Indian students opting for higher education. In the last three years, the growth of international students has outpaced domestic student growth by more than six times to reach a mark of seven hundred and seventy thousand in 2019. This number is expected to escalate by two times by 2024 reaching an approximate number of 1.8 million students. Studying abroad presents immense opportunities for Indian students, but they also bring challenges that influence their decision to study overseas. Some of the critical challenges faced by the students include homesickness, culture shock, and most importantly, the complex application process itself. Many students learn to cope with these challenges after reaching their study abroad destination and have spent a considerable amount of time. These loopholes can be addressed by proper counseling, making the student aware of the issues, and offering solutions to overcome them.

A seminar was arranged for TE and BE students on the topic "Study Abroad". The session was conducted by Deepak D., Assistant Professor, Mechanical Engineering Department, FCRIT. The speaker gave an idea about how students can prepare themselves for studying abroad.



Seminar on How to Become an Entrepreneur

India is becoming a hub for start-ups over the recent years due to high growth rates and other factors. Many entrepreneurs like to invest in information technology, finance, software, and other sectors to earn more money. The number is likely to increase in the future due to the availability of high manpower and government policies. A recent study said that India is growing at a faster level in the start-up ecosystem which contributes more to the country's economic growth.

Most start-up owners in India are youths who have to put their ideas into practice and grab the opportunities in the markets. They also have strong intrinsic motivations, problem-solving skills, patience, and the desire to achieve goals in society. The founders of start-ups have to plan everything properly and take smart movements for the benefit of the company. Apart from that, they learn how to overcome risks and other problems after opening a company in India. The success stories of new companies such as Paytm, Zomato, Ola cabs, Oyo, Big Basket, and Vedantu entirely changed the perception of entrepreneurship. Start-ups are earning more income these days due to proper planning, allocation of funds, etc.

Although start-ups are increasing, they have to face some challenges initially when they want to plan their operations in India.

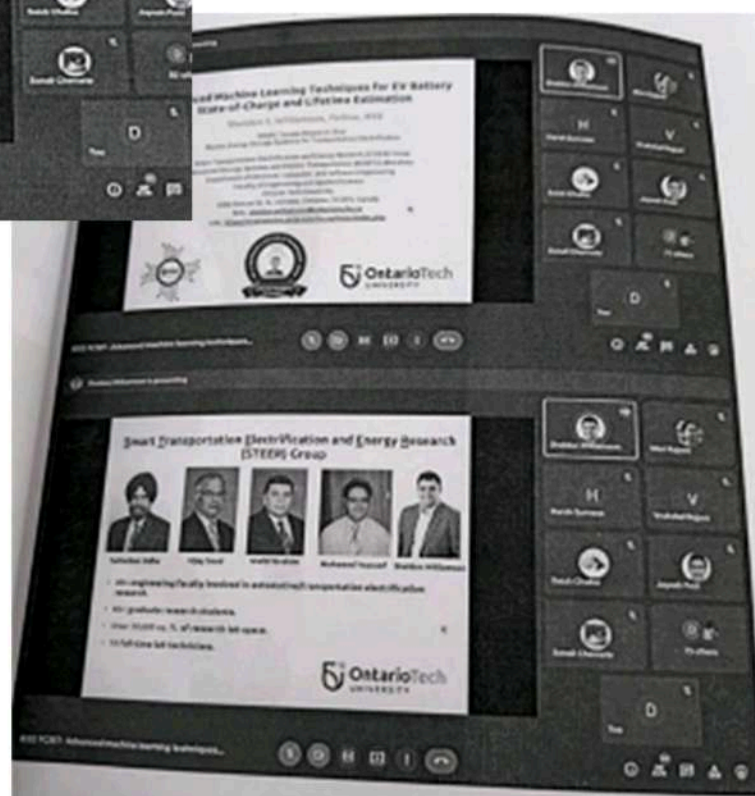
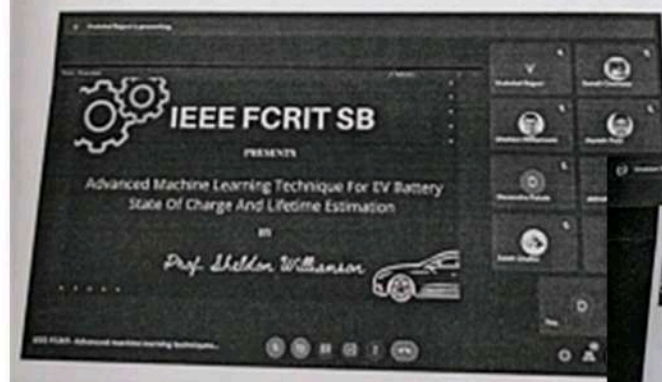
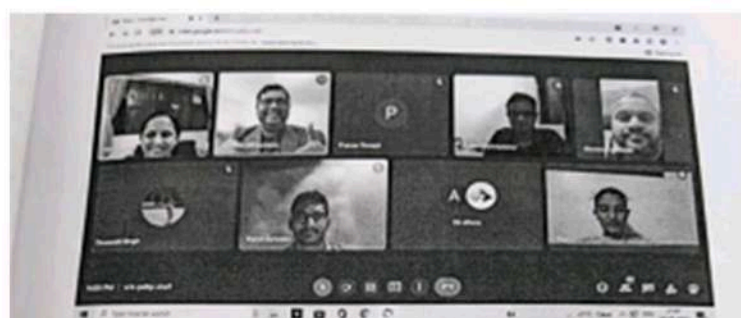




To help students face these challenges, a seminar on the topic “How to become an Entrepreneur”, was arranged for second year Electrical Engineering students, under Vidyut FH22. The session was given by Mr. Sagar Chandni, Head of Incubation and Startup Engagement, Center for Incubation and business acceleration CIBA. The speaker gave information about the procedure that can be followed by students to build their own startups. The session was very motivating and resourceful, providing information related to startups and being successful entrepreneurs.

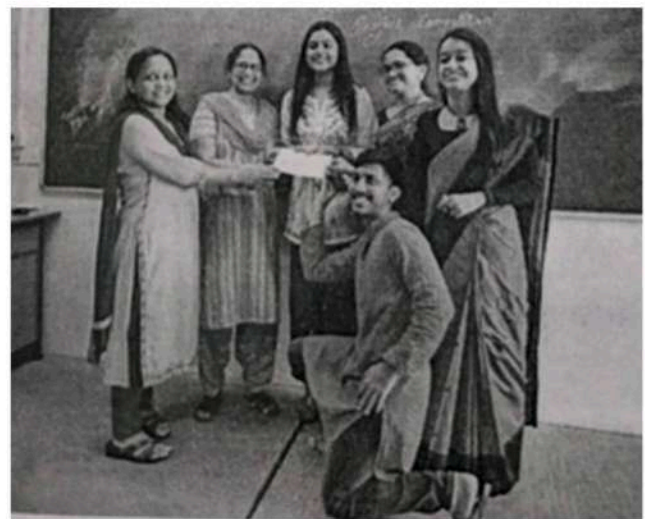
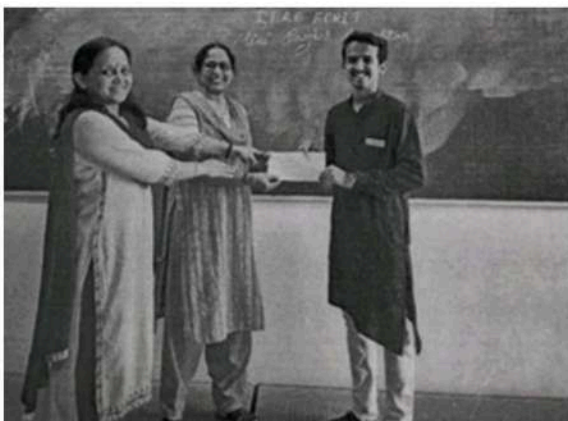
IEEE: Advanced Machine Learning for EV Battery State of Charge and Lifetime Estimation

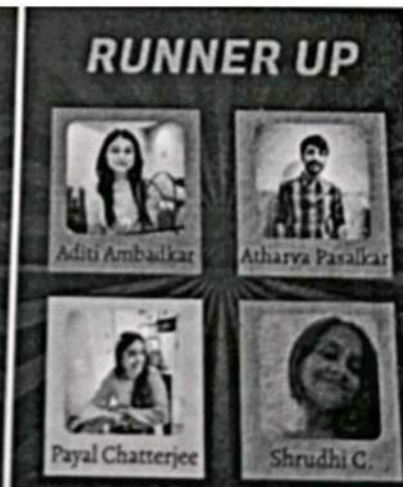
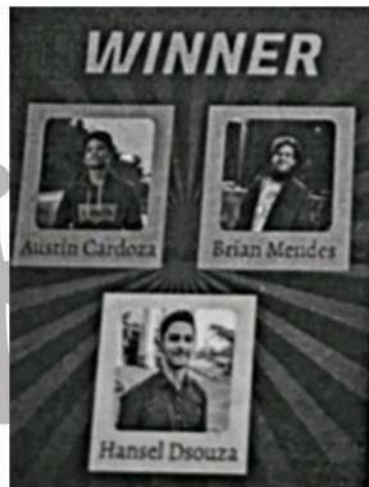
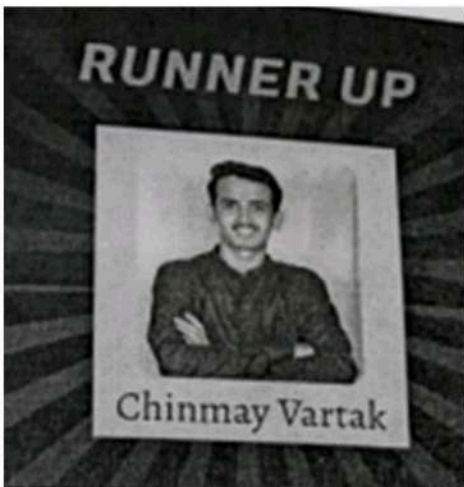
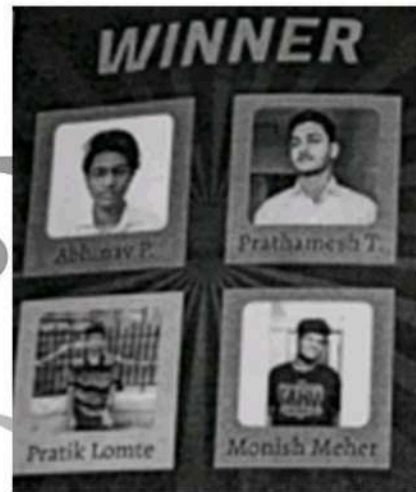
With an objective to arrange a session on a technical topic that will be beneficial to all the streams, a webinar on 'Advanced machine learning on EV battery state of charge and lifetime estimation' was organized on 7th January 2022 at 7:30 pm. The speaker for the event was Dr. Sheldon Williamson. After the Saraswati Vandana and lamp lighting ceremony, the speaker, teachers, and all the students were welcomed by the committee. After the event commenced, the speaker of the event, Dr. Sheldon Williamson, conducted an enlightening and informative session for all the attendees. The session was concluded by one of the members of the IEEE committee and the event was then adjourned. The event was successful as proved helpful to many attendees to gain knowledge about the topic. The event benefited a few PhD students in their studies along with engineering students. Overall, it was a very informative experience. Through a survey, it was found that more than 50% of the attendees liked the event very much, around 40% fairly liked the event, and around 70% of the attendees liked the organization of the event very much and had no complaints. 70% of the attendees also found the speaker to be excellent in his delivery of the session. In the future, the IEEE committee plans to arrange more such events based mainly on technical subjects and also those beneficial to students interested in pursuing higher education.



Mini Project Competition 2022

The competition aimed at presenting the mini project individually or along with a team. The objective of the event was to provide an opportunity to the students to showcase their talent, creative, technical and presentation skills. The event "Mini Project Competition" was organized on 12th February 2022 at 6 pm IST. The competition was divided into 2 tracks IT/CS and EXTC/Electrical. The competition commenced by welcoming the participants and introducing the Evaluators of the respective two tracks- Mr. Karan Balkar(CS & IT) and Prof. Anindita Samanta (EXTC & Electrical). The competition started with participants presenting their ppt and working projects within 10 mins, followed by a short 5 minutes of Q/A session by the evaluator. After the end of all the presentations, the evaluators gave feedback and suggestions to all the participants, as well as encouraged and congratulated them for their active participation.





The event was then concluded with a vote of thanks along with the dates of the result being declared by the council members. The event was conducted for the students of FCRIIT. The evaluator cum judge Mr. Karan Balkar and Prof. Anindita Samanta gave an informative and insightful view about the pros and cons each project could have, also mentioning more innovative ideas which can be added and the stability the project has in the current market. Participants were given a clear idea and fair judgement to their project providing them a clearer view on the negatives and positives of their implemented ideas. All the students took the competition with utmost sincerity and gave their best. They also took all the feedback from the evaluator in a positive way. The event was considered informative and well-received, prompting them to participate in similar future events. In the future, we plan to hold more competitions like this giving students a platform to showcase their talents and ideas.



STEM Education

The main objective of the event was to reveal the knowledge of basic components of electrical circuits and demonstrate some basic mini-projects to school students which will increase their knowledge and develop some interest. The schools participating in this event were AP Sutar NMMC School and Modern School. The event "STEM education" was organized on 4th March 2022 at Modern School between 8:30 to 9:30 and AP Sutar from 11:30 to 12:30. All the students of the IEEE council were welcomed to teach the students of their respective schools as STEM professionals. The seminar covered four vital mini projects like LED lighting circuits with battery and resistors, DC Motor Dynamo, Solar Panel Electrical Energy Generation, and Burglar Alarm and gave a short presentation on each mini project by explaining various projects with their designs and circuits executing in different cases. Students got to know the role of various devices in the making of projects. In the end, a question-answer session was organized where all the students got their doubts cleared. The event was conducted by the students of FCRIT. The engineering students gave an informative and insightful presentation about the circuits and some projects. The STEM learning experience fostered a learning environment that extended and deepened STEM content learning while providing opportunity and access to content, settings, and materials that most middle-level students otherwise would not have access to. Students had a fun learning experience while being provided with the deep knowledge in a more comprehensible and amusing way. Most importantly, all the essential concepts were well comprehended and understood by the students providing them a clearer way to the details.



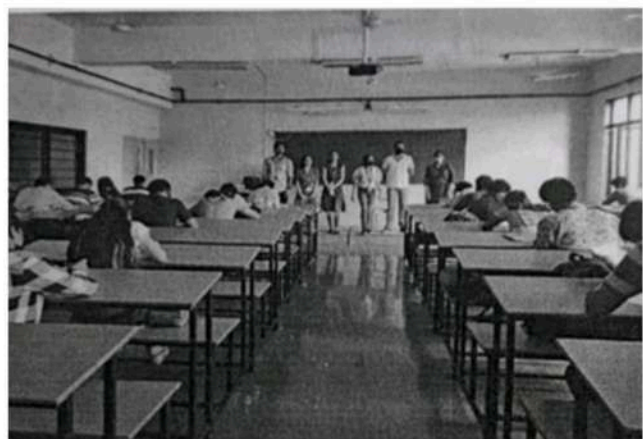
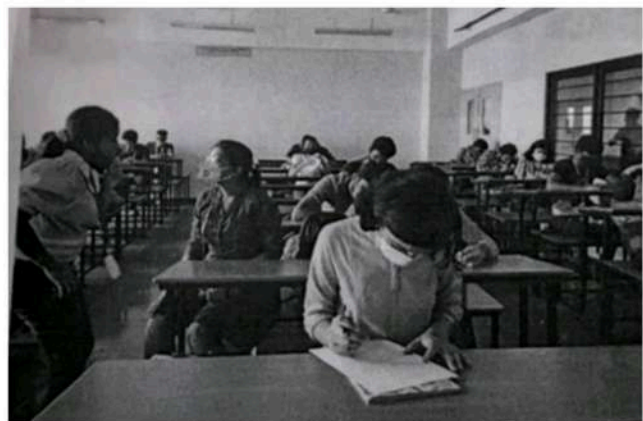
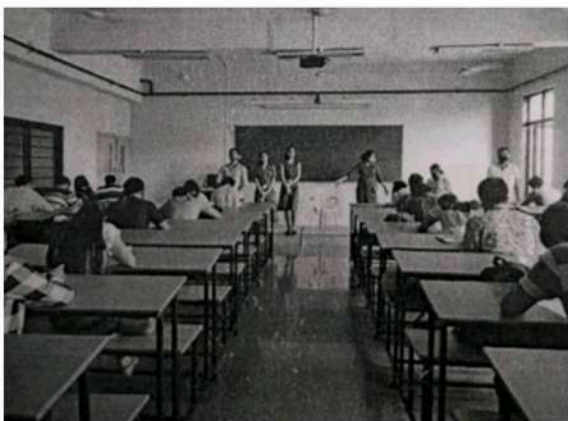
Poster Presentation

The poster presentation was in collaboration with the student council which basically aims at showcasing a cause which conveys a technical theme individually or along with a team of maximum three members. The objective of the event was to provide an opportunity to the students to present their talent, creative, technical and presentation skills. The event "Poster Presentation" was organized on 10th March 2022 at 11 am IST. The judges for the competition were- Mr. Joshua Michael from EXTC Department and Ms. Sharlene Rebeiro from IT Department. The competition started with the participants having 10 mins of presentation time. The judges gave feedback to all the participants, as well as encouraged and congratulated them for their active participation. The participants had the liberty of making their own templates for the posters. The event was conducted for the students of FCRIT. The students were given a platform to present their technical ideas in a visually appealing and creative way. The participants were given a clear idea and fair judgment for their posters and presentation skills. All of the students approached the competition with enthusiasm and gave it their all. They also took all of the judge's feedback positively. The event was deemed informative and well-received, prompting them to participate in similar future events. We intend to hold more competitions like this in the future to give students a chance to display their skills, talents and ideas.



Tech Quiz

The objective of conducting the technical quiz goes to enlighten students more about their streams so that they could be deeply rooted with the concepts that they are learning in their fields with a competitive twist. The event "Technical Quiz" was organized on 10th March 2022 at FCRIT college between 10:00AM to 11:00 AM. All the students of the IEEE council were assigned duties such as invigilation and evaluation. The quiz covered vital topics of engineering curriculum like Physics, Computer Science, Electronics, IT and Electrical questions. The quiz consisted of three rounds. First two rounds were of 20 mins and 15 mins respectively based on the technical knowledge related to the student's stream. (MECH/ELEC/COMPS/IT/EXTC). Third round was of 25 mins based on general knowledge and aptitude. The event was conducted by the IEEE student council of FCRIT. The winners were Yash P - IT 3rd year and Parth Phalke - IT 3rd year. The Technical Quiz brought a new interest in students for learning the engineering curriculum at a deeper level and develop better understanding of the core concepts. We will organize more workshops and events like this in the future. It was a fun event.



IEI: Latex Workshop

LaTeX (pronounced lay-tech or, alternatively, la as in lava and tech as in technology) was initially invented as a typesetting language for mathematical notation. It is text-based and non-graphical in nature. By typing standard text on a keyboard, one can represent all of the mathematical symbols from elementary to advanced level. LaTeX can even be used to draw diagrams.

A number of common items are difficult or impossible to type on a keyboard, but are simple to produce using LaTeX. They include fractions, subscripts, superscripts, matrices, partial derivatives, and integrals. LaTeX gives the user extremely good control over the formatting of documents. Once it is mastered, it can be much easier to work with than a mainstream word processor when complicated formatting is necessary. LaTeX code is first typed into a text file. The LaTeX software, computer, and printer then do all of the work to produce a polished document containing readable mathematical notations.

The IEI council conducted an offline workshop on the 4th of March, where second-year students were taught how to use the Latex software. At the end of the workshop, the students were given an exercise that had to be completed in Latex.



FEM Beginners Course

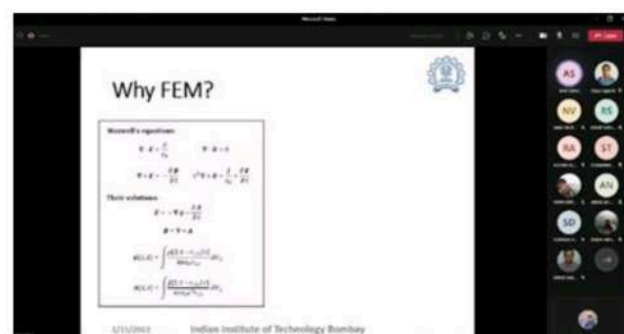
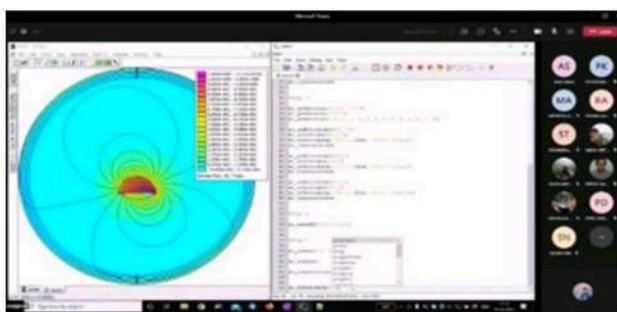
FEM or FEA (Finite Element Analysis) allows engineers to prototype a design in action without the need to create a physical working model. The nature of FEM offers a few more advantages. The use of finite elements allows the modeling of multiple material types, testing of complex geometry, and the ability to capture local effects acting on a small area of the design.

In practice, engineers can use finite element modeling software on a huge variety of tasks. The deformation of a car on impact, stresses on human joints, and fluid dynamics over turbines are just a few of its varied applications. FEM can also be used to solve different magnetics and flux-related problems in machines.

Finite element analysis is only a predictive model. It doesn't confirm that a design will survive the modeled stresses, but it gives engineers a clearer picture of how the design will react to stresses and reduces the need for extensive prototyping.

Finite element analysis is a powerful tool in the belt of an engineer, and effective use of FEA can save companies time and money through mathematical prototyping. FEA is one of the digital technologies transforming the future of engineering.

The IEI committee conducted a beginners course on FEM which was held in 4 sessions. The sessions were held on Google Meet and were conducted on 15th, 16th, 22nd and 23rd January 2022. By the end of this course, students were able to learn the simulation of magnetic circuits and use the Octave software for simulation with coding, similar to MatLab.



Expert Lecture FH 2022

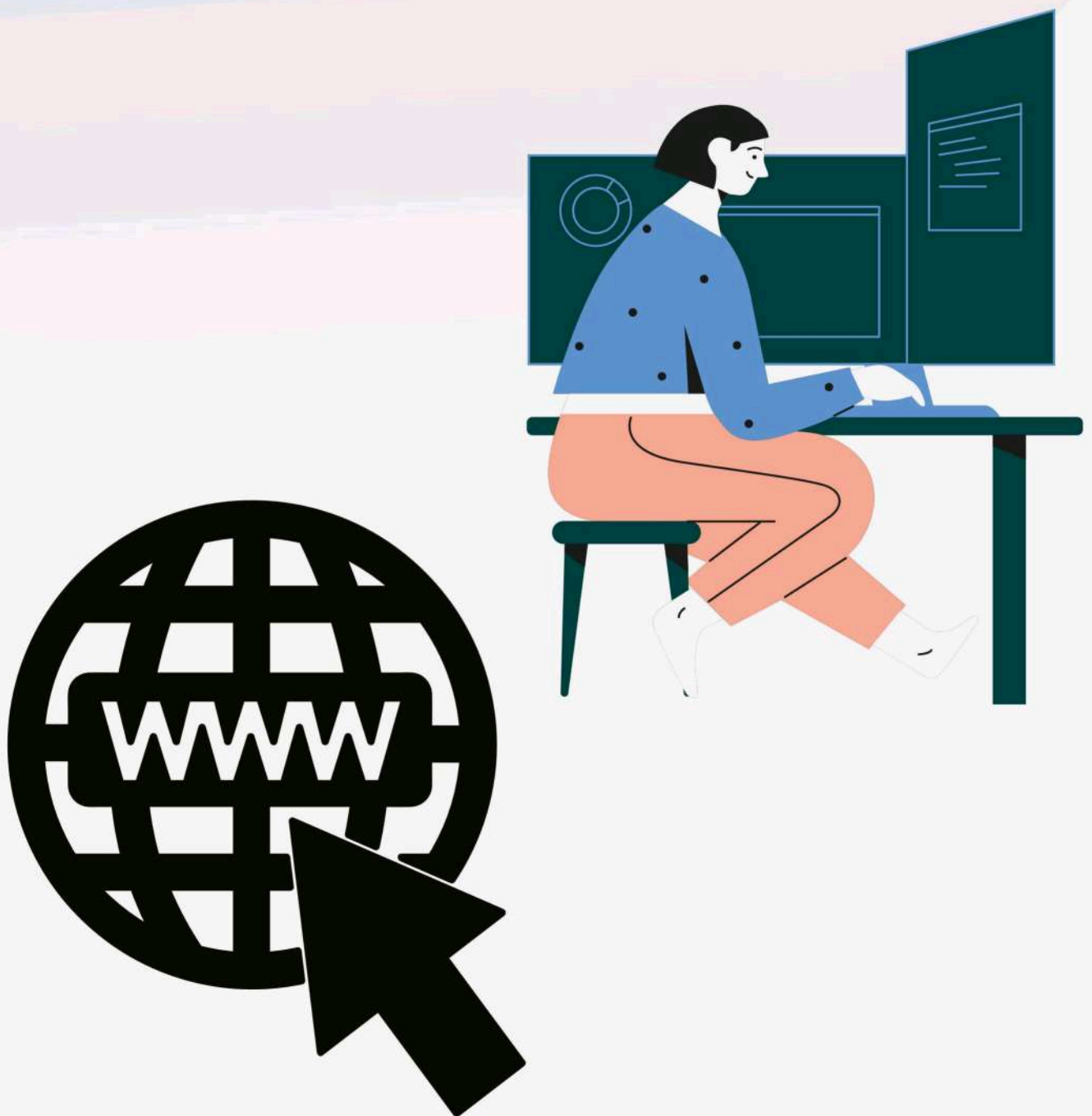
Following are the details of expert lectures conducted in the first half of 2022:

SR.No.	Name of Faculty	Semester	Subject	Date of conduction	Name of Speaker	Year of passing	Designation
1	Mini.R	4	PE	31-Jan	Mr. Prems Srampical	2001	Co-Founder -Strategy and Innovation
2	Ruchi.H	8	FACTS	11/02/2022	Mr Sutej Mota	2019	Electrical Engineer, Substation Design
3	Seema Jadhav	8	IE	12/02.22	Sayantan Das	2020	Associate Electrical Engineer
4	Mini.N	6	CSD	2/9/2022	Mr. Akshat Shenoy	2016	Senior Design Engineer
4	Divyas	6	SS	5-Mar	Ms Sanika Pawaskar	2018	Electrical Engineer
5	Harshada.Bhosale	6	ES	6-Apr	Dr.Bindu.R		Associate Professor
6	Rane	8	DMAES	5-Mar	Mr. Siddharth Singh	2011	Manager
8	Bindur	4	EACM	19-Mar	Mr.Ramchandra bhosale	2011	Technical Staff
9	Bindu.S	6	ET	2/11/2022	Ms.Anindhita	2019	Senior Engineer
10	Sreedevi	6	MCA	12-Feb	Mrs.Mayuri Bhirud	2019	Electrical Design Engineer

Name of Speaker	Company	Title of Expert Lecture
Mr. Prems Srampical	White crow Research.	Motivational talk on facing failures
Mr Sutej Mota	Burns and Mcdonnell Engineering India Pvt. Limited, vikroli, Mumbai	Fundamentals of FACTS
Sayantan Das	ETAP Automation, Seawoods Grand Central, Tower no. 2, D wing, Seawoods, Navi Mumbai 400706	Understanding ETAP software for power system
Mr. Akshat Shenoy	Renasas Electronics, Cambridge, UK	Strategies to prepare for higher studies in control & computing v
Ms Sanika Pawaskar	Worley India, Gigaplex, Building No:2, Plot No: IT-9th floor, TTC Industrial Area, Airoli Knowledge Park,	Electrical consultancy
Dr.Bindu.R	FCRIT,Vashi	Design and sizing of ESS for EV application
Mr. Siddharth Singh	Reliance Jio, Reliance Corporate Park, Ghansoli, Navi Mumbai	Infrastructure and Power Distribution in Telecom Industry
Mr.Ramchandra bhosale	Igrenergi services Pvt Ltd. SINE, 3rd Floor, CSRE Building, IIT Bombay, Mumbai 400076	Why Induction motor is so popular?
Ms.Anindhita	Tata Consulting Engineers Ltd, Mumbai, Maharashtra	Design Management and Distribution
Mrs.Mayuri Bhirud	Worley India, Gigaplex, Building No:2, Plot No: IT-9th floor, TTC Industrial Area, Airoli Knowledge Park,	Practical Skills in Career Building

CO
: Enlighten the importance of facing and overcoming failures and to motivate to overcome them.
Students will be able to demonstrate an understanding of the fundamentals of (feedback) control systems.
Students will be able to understand features of ETAP software for power system
: Recognize the need of electrical engineering with control / computing techniques in Industry / Outside world and be able to clearly explain why it is vitally important to keep the cur
To understand the role of an electrical consultant in industry
Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
Students will be able to design of power distribution substation.
To give an insight into the practical applications of induction motor
: Student will able to illustrate the importance of developing the SLD of power system
Students were able to understand the importance of technical and practical knowledge in their professional life.

INFORMATION TECHNOLOGY



TECHSPARKS 2022

"It is nice to have valid competition; it pushes you to do better"

-Gianni Versace

After successfully organizing online events for the span of two years which were fun and innovative, nothing beats the dynamism and vibrance of offline events. On the opportunity to conduct offline events our fellow CSI committee organized "TECHSPARKS 2022"- a project presentation competition for all the tech enthusiastic students. This was an intra-collegiate event that had young aspiring engineers come up with their creative and unique projects which raised the bar of the competition.



The event was conducted on 28th March 2022 and was held in an offline mode on our college premises. The competition was divided into categories namely Mini project, IOEL, and BE. A total of 46 project teams participated. Projects were evaluated on criteria points such as implementation, originality, knowledge, and clarity. The evaluators went through the projects one by one. After this, the respective winners in each category were announced. This marked the end of a rather very successful event. The CSI committee gathered to take a group picture as a memory to capture the moments of pure joy during the successful completion of the event.

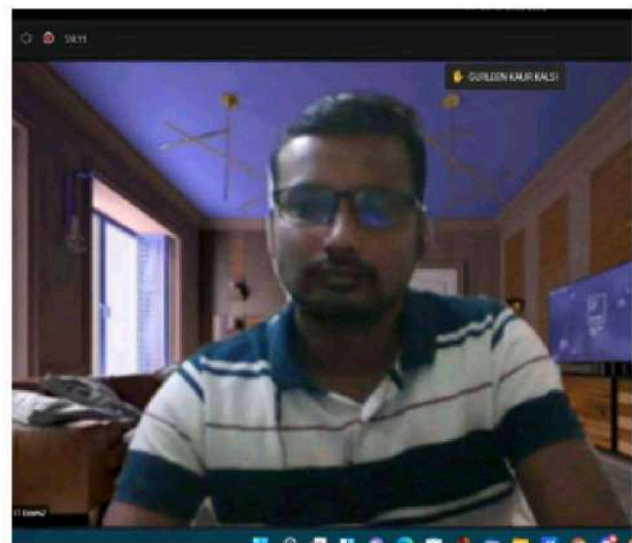
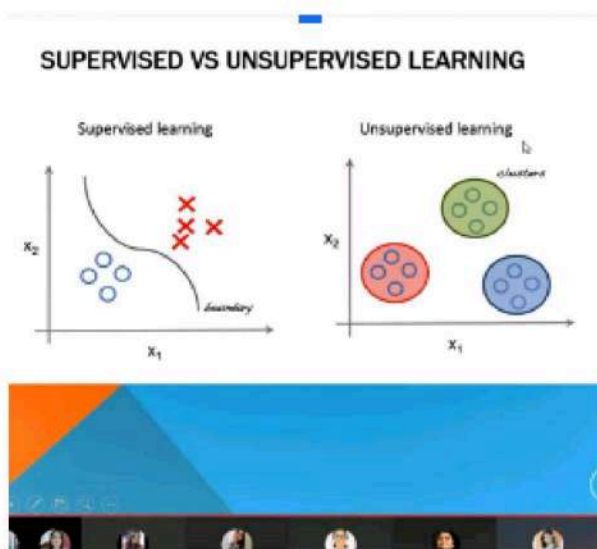
CSI-INFOBITS 2022

Real-time Application of Machine Learning

"Computers are able to see, hear and learn. Welcome to the future."

-Dave Waters

Machine learning is the hype right now in terms of technology. It is a subset of AI (Artificial Intelligence). Machine learning is an application of artificial intelligence (AI) that provides systems the ability to automatically learn and improve from experience without being explicitly programmed. To be in sync with the current demand and hype in the technology the CSI committee arranged a webinar on "Real-time Application of Machine Learning". This workshop was conducted on the 12th of February 2022 on the online platform MS Teams.



The workshop had good participation from students. In this workshop, the speaker Mr. Rushikesh Deshmukh walked us through some real-time applications of Machine Learning. He explained different algorithms with examples. Diabetes Prediction was performed using four different machine learning algorithms which were Random Forest, Decision Tree, XGBoost, and Support Vector Machine. It was intriguing enough to know that Diabetes could be predicted with variant algorithms. The workshop did indeed contribute to our knowledge. It provided everyone with a good explanation of machine learning algorithms.

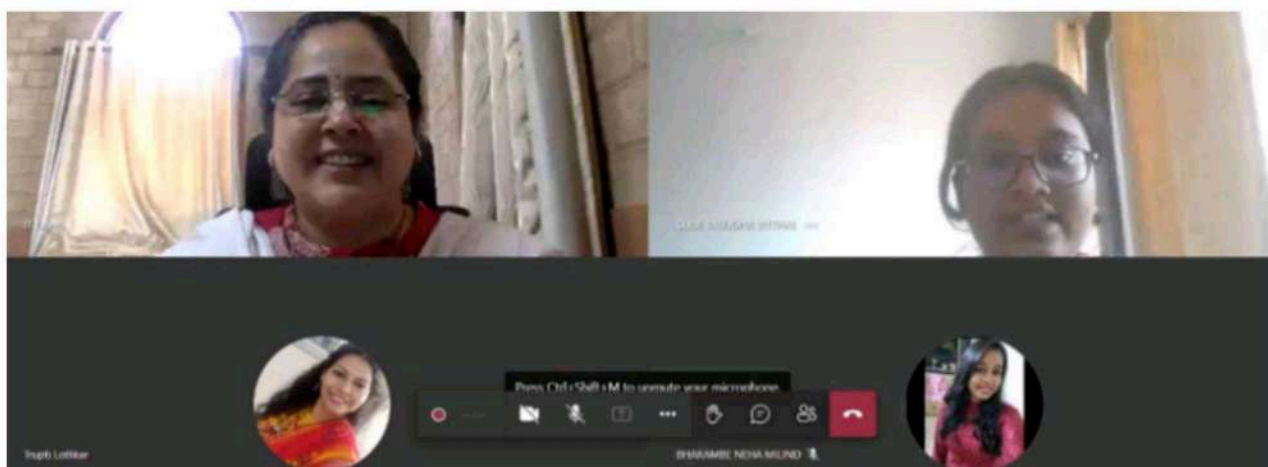
CSI-INFOBITS 2022

Ethics of Nature and Nature of Ethics

“Earth and sky, woods and fields, lakes and rivers, the mountain and the sea, are excellent schoolmasters, and teach us more than we can ever learn from books.”

-John Lubbock

Nature could be anything; it's beautiful and harmonious and at the same time it is strong, vigorous, and ruthless. The world around us looks so delicate and fragile yet it is so thoroughly woven into each other to the tiniest part. It provides us with questions, solutions, and salvation all at the same time. Nature has a significant contribution to every individual's day-to-day life as well. Nature is the best teacher, to emphasize more on this, our fellow members of the CSI committee arranged a workshop on “Ethics of Nature and Nature of Ethics”. This workshop was narrated by Dr. Aditi V. Mishal and it was conducted on the 12th of February on the online platform MS Teams.



Dr. Aditi drew various parallels between nature and human ethics and how we could take notes from nature. She emphasized how nature has its code of ethics which all creatures follow. It is like a written rule in the essence of existence itself. Everyone and everything from a waterfall to ants to various trees seem to have an ethical law of their own. They teach us adaptability, teamwork, trust, and a lot more things. She also explained about the carbon footprints and suggested solutions to reduce them. Overall, it was an insightful workshop and left a lasting impression to be thankful for the nature around us.



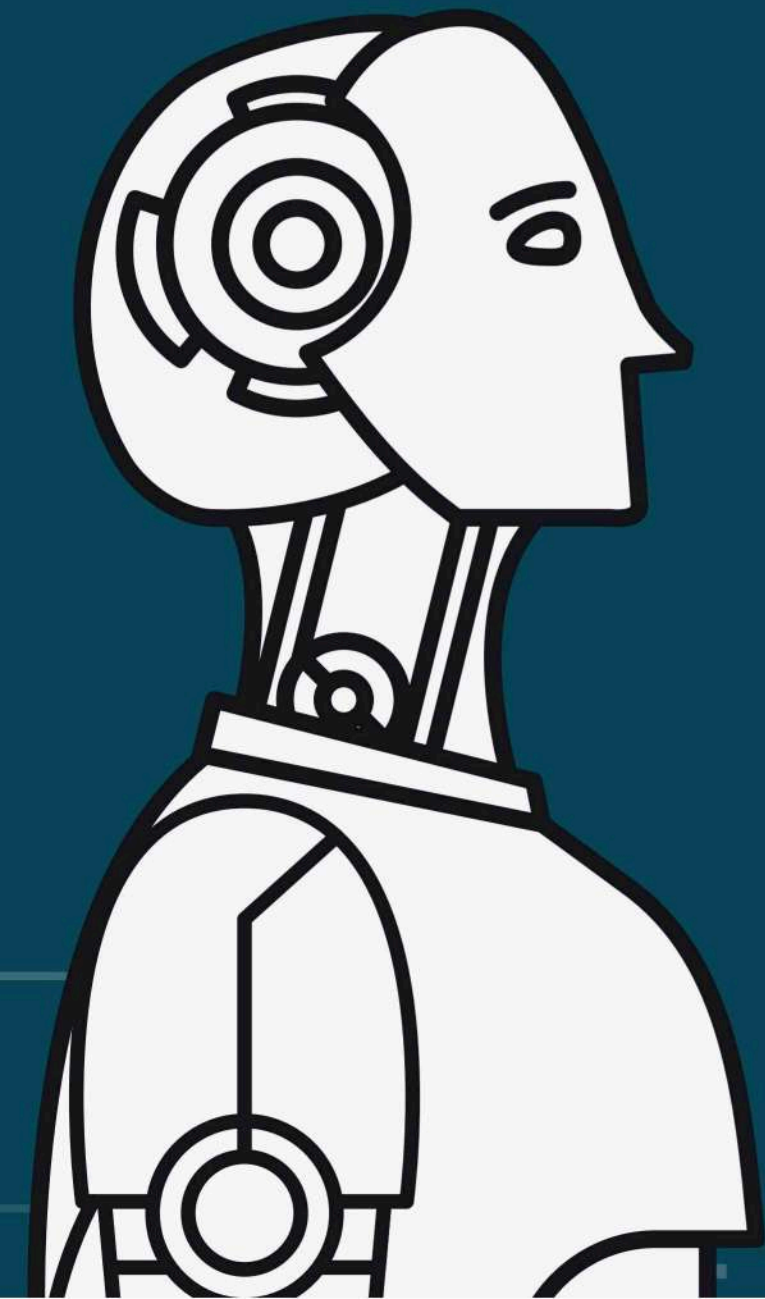
Indian Drone Racing league



Aero club of FCRIT is the flight to the innovations in the field of aerospace, it conducts various events and webinars making the technical wings of students strong enough to fly. Aero club for the first time in FCRIT, in collaboration with the student council and IDRL conducted "Indian Drone Racing League" on the first day of Etamax i.e 10th march 2022 for students to pursue their passion of flying. Drone racing is a sport where participants control "drones" (An unmanned aerial vehicle, commonly known as a drone, is an aircraft without any human pilot, crew, or passengers on board) equipped with cameras accompanied by head-mounted displays showing the live stream camera feed from the drones. Similar to full size air racing, the goal is to complete a set course as quickly as possible. It was a daylong event where a total of 25 participants overall India had come to test their flying skills and to emerge victorious among them all. The event had a prize pool of 60,000 Rs where 20,000 Rs was given as 1st prize. The event was a time lapse league where the best of three laps was counted as their final laps per round. The race course gave ravishing views of the event at night where the entire set up of obstacles was lit by LED lights. The event concluded with a thank you note by the founder of IDRL, extending his gratitude towards the audience and participants who patiently enjoyed the event.



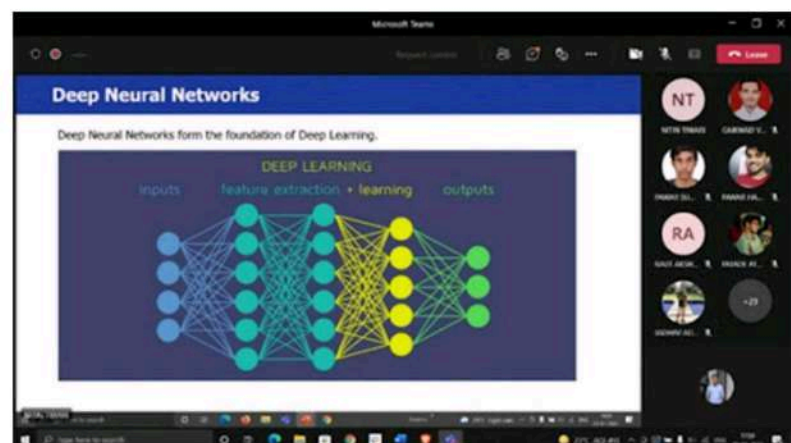
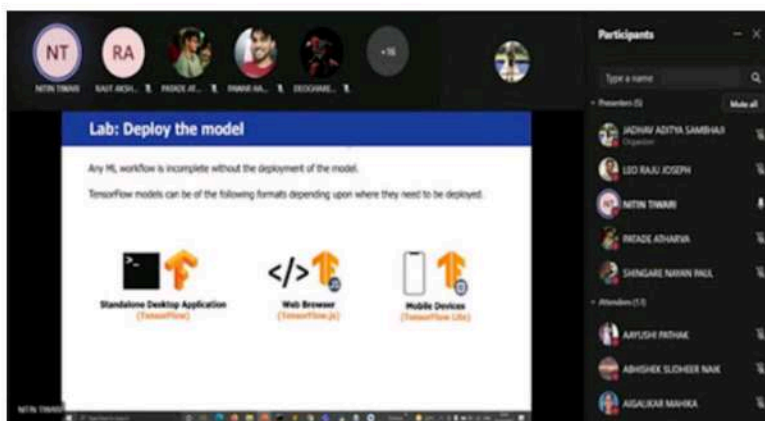
ARTIFICIAL INTELLIGENCE AND DEEP LEARNING



Workshop on custom object detection model using TensorFlow

Day 1 (23rd January 2022)

The Artificial Intelligence and Deep Learning club of FCRIT conducted a workshop on “Custom object detection model using TensorFlow”, on 23rd January 2022. The goal of this workshop was to give the students knowledge about Object Detection and Machine Learning through a hands-on project. The workshop mainly focused on supervised learning on unstructured data which contains object detection as one of its models. A brief explanation of neural networks, TensorFlow, performance metrics, and intuition was given. Convolutional Neural Networks (CNN) was the main algorithm being implemented in this project. Finally, Android Studio was implemented to deploy the model and make it usable as an app on Mobile devices.



FCRIT

**Do you
want to
speak up?**



DEBATE CLUB



**Samvaad
2022**

SAMVAAD 2022

"IN ALL DEBATES, LET TRUTH BE THE AIM, NOT VICTORY, OR AN UNJUST INTEREST"

~DEFINITELY NOT ME



INTRODUCTION:

Civil disagreement is a cornerstone of a liberal society, and we as a society should be held responsible of holding speakers to account and allowing its individuals to challenge difficult views. Times change but as Margaret Heffernan said: "For good ideas and true innovation, you need human interaction, conflict, argument, debate."

Hence, the Agnel's Debate Club, being a co-curricular student-run club focused on exposure and learning, conducted its annual debate competition "SAMVAAD", with the aim of empowering students with the skills of expressing their beliefs clearly and concisely, and staying aware of current events in the world. It was held on 26th and 27th February, 2022, in the online mode, on the Google Meet platform, keeping the pandemic into consideration. The registration for the event was done via google forms and had an entry fee of ₹300 per team. An overwhelming eighteen teams (given IDs SV1 to SV18) took part in the competition.

FORMAT OF THE DEBATE:

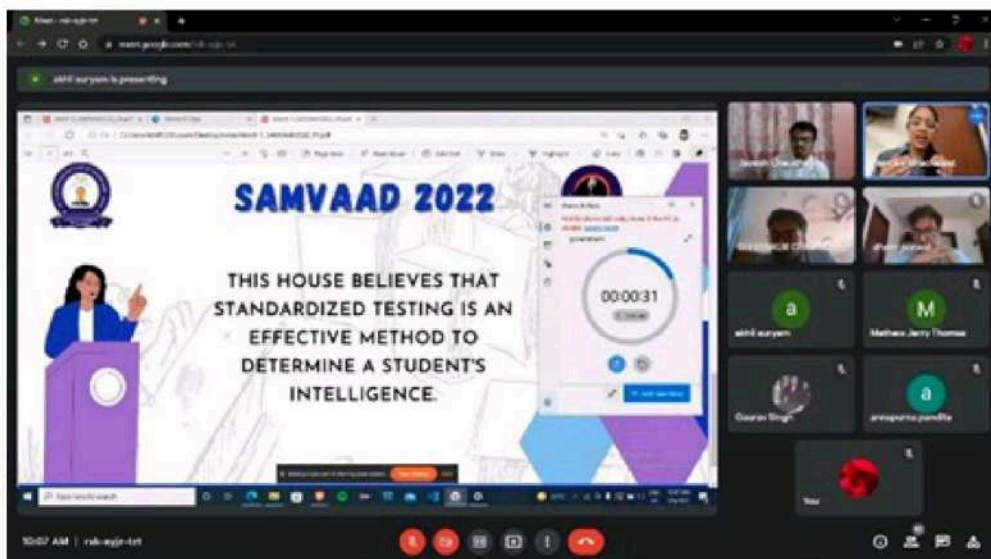
The debate was based on a modified oxford-parliamentary format. Each team consisted of 2 members each with the following assigned responsibilities:

1. Government / Proposition: The role of the government and members of the government is to propose and defend the motion. This team consists of:

- Prime Minister (PM)
- Government Whip (GW)

2. Opposition: The role of the opposition is to refute and negate the motion, proposed by the government. This team consists of:

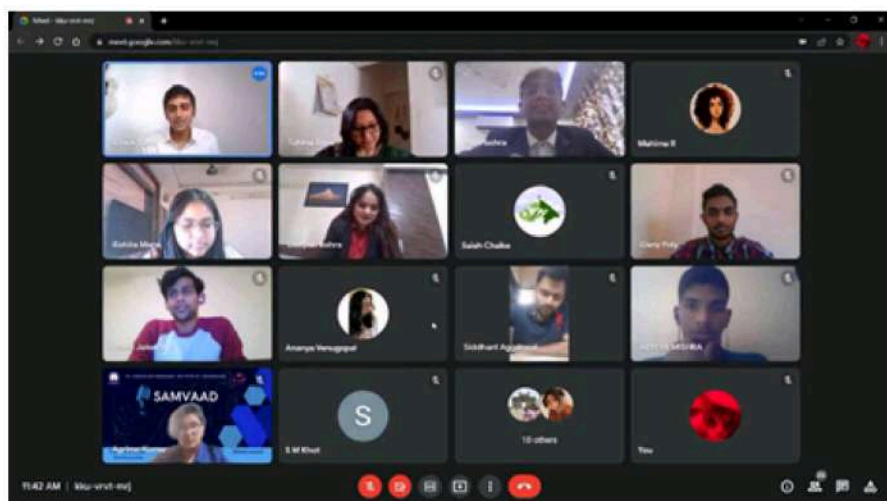
- Leader of Opposition (LO)
- Opposition Whip (OW)



EVERY DEBATE CONSISTED OF THREE ROUNDS – THE OPENING ROUND, REBUTTAL ROUND AND THE CLOSING/CONCLUDING ROUND.

THE RESPONSIBILITIES OF THE SPEAKERS IN REFERENCE TO THESE ROUNDS WERE:

Round	Speaker	Speaker Responsibilities
Opening Round	Prime Minister (opening speech for the government)	Defines and interprets the motion, gives a background of the debate, states the problem, advances and discusses each of the said arguments.
	Leader of the Opposition (opening speech for the opposition)	Accepts the definition of the motion, re-contextualizes the debate in their favour. Constructs arguments against the motion.
Rebuttal Round	Each team will be allowed to ask questions to the opponent team. The rebuttal will begin with the opposition asking questions to the government team. Either of the members can involve themselves in this round, and can also take over from where the teammate left off.	
Closing Round	Opposition Whip (Closing speech for the opposition)	Summarizes the entire debate from the point of view of the opposition. Does not provide new arguments except when countering own.
	Government Whip (Closing speech for the government)	Summarizes the entire debate from the point of view of the proposition. Does not provide new arguments except when countering own.



EACH DEBATE WAS MODERATED BY A SPEAKER AND MONITORED BY A TIME KEEPER, AND CONSISTED OF TWO OR THREE QUALIFIED JUDGES TO AWARD THE SCORES. IN ADDITION, A FACT CHECKER WAS ALSO PRESENT IN THE PANEL TO VERIFY THE STATEMENTS PUT FORWARD BY BOTH THE TEAMS.

STRUCTURE OF THE COMPETITION:

THE EVENT CONSISTED OF FOUR ROUNDS – THE PRELIMINARY ROUND, QUARTER FINALS ROUND, SEMI-FINAL ROUND AND THE FINAL ROUND, WHICH WERE DISTRIBUTED OVER A SPAN OF TWO DAYS, WITH THE ADDITION OF ONE DAY FOR TOPIC RELEASE.

SCHEDULE:

4TH MARCH :

18:00 - TOPIC ANNOUNCEMENT FOR FIRST SET

5TH MARCH :

08:30 TO 09:00 - INAUGURATION

9:30 TO 12:30 - PRELIMINARY ROUND OF DEBATES

13:30 TO 15:30 - QUARTER FINAL ROUND OF DEBATES

18:00 - TOPIC ANNOUNCEMENT FOR SECOND SET

6TH MARCH :

8:30 TO 10:30 - SEMI FINAL ROUND OF DEBATES

11:00 TO 11:30 - WELCOME ADDRESS

12:00 TO 14:00 - FINALS AND WINNER ANNOUNCEMENT

14:00 TO 14:30 - VOTE OF THANKS



STRUCTURE OF THE ROUNDS:

PRELIMINARY ROUNDS:

OPENING SPEECH (GOVERNMENT) - 3 MINS
OPENING SPEECH (OPPOSITION) - 3 MINS
REBUTTAL ROUND - 5 MINS
CLOSING SPEECH (OPPOSITION) - 3 MINS
CLOSING SPEECH (GOVERNMENT) - 3 MINS

QUARTER FINALS:

OPENING SPEECH (GOVERNMENT) - 4 MINS
OPENING SPEECH (OPPOSITION) - 4 MINS
REBUTTAL ROUND - 7 MINS
CLOSING SPEECH (OPPOSITION) - 4 MINS
CLOSING SPEECH (GOVERNMENT) - 4 MINS

SEMI FINALS:

OPENING SPEECH (GOVERNMENT) - 5 MINS
OPENING SPEECH (OPPOSITION) - 5 MINS
REBUTTAL ROUND - 8 MINS
CLOSING SPEECH (OPPOSITION) - 5 MINS
CLOSING SPEECH (GOVERNMENT) - 5 MINS

FINALS :

OPENING SPEECH (GOVERNMENT) - 8 MINS
OPENING SPEECH (OPPOSITION) - 8 MINS
REBUTTAL ROUND - 12 MINS
CLOSING SPEECH (OPPOSITION) - 8 MINS
CLOSING SPEECH (GOVERNMENT) - 8 MINS

SCORING CRITERIA:

INDIVIDUALS OF EACH SIDE WERE SCORED ON 3 CRITERIA I.E. – MATTER, MANNER AND METHOD OF PRESENTATION, EACH CRITERIA HAVING 5 POINTS (1-LOW, 5-HIGH)

1) MATTER – WHAT POINTS ARE PUT FORWARD, RELEVANCY AND UNIQUENESS OF THE POINTS, WHAT REAL WORD EVIDENCES/REFERENCES ARE USED TO SUPPORT THE ARGUMENTS. KEYWORDS: LOGIC, RELEVANCE (NEGATIVE MARKING IF IT IS FOUND OUT THAT THE STATS ARE COMPLETELY OFF THE MARK)

2) MANNER- CLARITY AND CONFIDENCE IN SPEECH(SIMPLE YET IMPACTFUL) AND EXPRESSION, TONE OF SPEAKING, PACE, (CAN ATTRACT NEGATIVE MARKING IN CASE OF PERSONAL ATTACKS)

3) METHOD – THE ORDER IN WHICH THE POINTS ARE PRESENTED (WHETHER THEY ARE COHERENT AND MAKE COMPLETE FLOW/SENSE WHEN PUT TOGETHER), WHETHER THE TEAMMATES COMPLEMENT/COMPLETE EACH OTHER, AND VERY WELL HAVE AN IDEA OF THE OTHERS' ARGUMENTS, WHETHER ALL THE POINTS WERE SUMMARISED, AND THAT TOO CORRECTLY.

ACCOLADES:



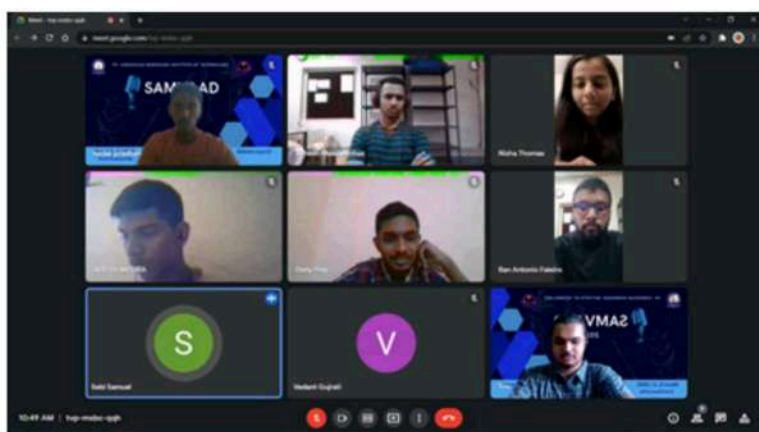
THE WINNING TEAM(1ST POSITION), RUNNER-UP TEAM(2ND POSITION) AND THE BEST SPEAKER WERE AWARDED CASH PRIZES AND CERTIFICATES OF MERIT. ALL THE MEMBERS OF THE TEAMS THAT TOOK PART IN THE COMPETITION WERE AWARDED PARTICIPATION CERTIFICATES.

RESULTS:

OUT OF THE EIGHTEEN TEAMS THAT TOOK PART IN THE COMPETITIONS, TEAM SV13 EMERGED AS THE WINNERS, FOLLOWED BY SV13 AS THE RUNNER-UP TEAM.

Team ID	Members
SV13	Adith Nair, CV Ananya
SV18	Aditya Mishra, Dany Poly

THE BEST SPEAKER PRIZE WAS AWARDED TO DANY POLY FROM TEAM SV18.



THE ORGANIZING TEAM:

THE FOLLOWING ARE THE TEAM MEMBERS OF SAMVAAD COUNCIL WHO WORKED TO MAKE AN EVENT A SUCCESSFUL ONE UNDER GUIDANCE OF THE TEACHER COORDINATOR MRS. TUHINA BOSE.
CORE TEAM:

- **COORDINATORS:** BHAGYASHREE LAKSHMINARAYANAN, RITWIK SARAF
- **TREASURER:** AGRIMA KUMAR
- **PUBLIC RELATIONS HEAD:** ADITI SHRIVASTAVA, GAURAV SINGH
- **SPONSORSHIP HEAD:** NIMESH ROKADE
- **CONTENT CREATION HEAD:** AGRIMA KUMAR, DIVYA VINOD
- **DOCUMENTATION HEAD:** MAHIMA RUDRAPATI

SUPPORT TEAM:

- **PUBLIC RELATION TEAM MEMBERS:** PALAK WADHWA, SIDDHESH UPADHYAY, RISHITA MANE, AKHIL SURYAM
- **SPONSORSHIP TEAM MEMBERS:** SAISH CHALKE, YASH BOHRA, VEDANT GUJARATHI, KEDAR PRADHAN
- **CONTENT CREATION TEAM MEMBERS:** VANSI JAIN, PALAK WADHWA, PRATIK SHRIVASTAV, SHERIN THOMAS, SIDDHESH UPADHYAY, RISHITA MANE, AKHIL SURYAM
- **DOCUMENTATION TEAM MEMBERS:** VANSI JAIN, SAISH CHALKE

ON THE PODIUM

"IT IS BETTER TO DEBATE A QUESTION WITHOUT SETTLING IT THAN TO SETTLE A QUESTION WITHOUT DEBATING IT. "

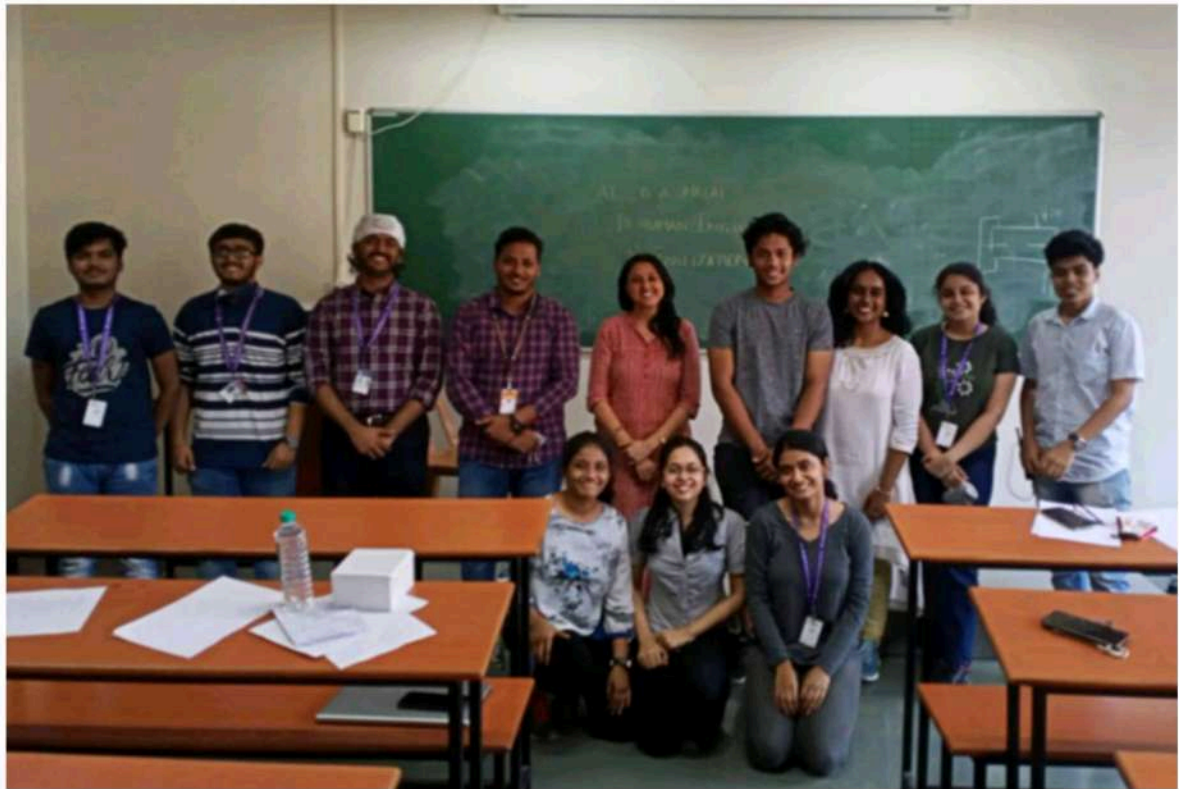
- JOSEPH JOUBERT

DATE: 10TH MARCH 2022.

THE AGNEL'S DEBATE CLUB ORGANIZED "ON THE PODIUM", A DEBATE COMPETITION, AS AN EVENT DURING ETAMAX 2022, TO UPLIFT AND ENCOURAGE SOLO DEBATING SKILLS AMONG STUDENTS. IT RECEIVED POSITIVE PARTICIPATION OF 18 STUDENTS AND WAS CONDUCTED IN A CLASSROOM IN THE NEW BUILDING. THE TEACHER IN CHARGE WAS DR. TUHINA BOSE AND THE STUDENT IN CHARGE WAS BHAGYASHREE.

TWO EXPERIENCED FACULTY, MR. HANMANT PATNE FROM AGNELS POLYTECHNIC AND MR. BADAL KUDACHI FROM FCRIT, WERE CALLED TO JUDGE AND GIVE FEEDBACK TO THE PARTICIPANTS DURING THE COMPETITION. IN ADDITION, EVERY DEBATE IN THE COMPETITION WAS MONITORED BY THE SPEAKER, TIMEKEEPER AND FACT-CHECKER. THE STRUCTURE OF EACH DEBATE WITHIN THE EVENT CONSISTED OF THE SPEECHES OF THE GOVERNMENT AND OPPOSITION AND A REBUTTAL ROUND.

THE EVENT WAS CONDUCTED IN 2 ROUNDS, ELIMINATION AND THE FINAL ROUND, AND THE PARTICIPANTS WERE CHALLENGED WITH TOPICS PICKED FROM A WIDE POOL OF REAL-LIFE PROBLEMS. ALL IN ALL, THIS PROVIDED THE PLATFORM FOR SHARING AND DISCUSSING NEW IDEAS AND OPINIONS RESULTING IN BLAZING REBUTTALS OFFERING MANY TWISTS. THE WINNER (UZAIR AHMED) AND THE RUNNER-UP (AKHIL SURYAM) WERE AWARDED PRIZE MONEY AND CERTIFICATES.





DRAMATICS CLUB

Woman's Day Playlet

'A Woman is the full circle. Within her is the power to create, nurture and transform.'

-DIANE MARIECHILD

On the occasion of woman's day (8th March 2022) , the dramatics club portrayed the courage and bravery of Hirakini through an act put up by three students. The organising committee members were Sanskriti Gharat, Mrinalini De and Vasundhara Kakade. The faculty-in-charge was Mrs. Audrey Correa. A message emphasizing that a woman can accomplish anything without limits using their self-confidence, will-power and wisdom was conveyed. A powerpoint presentation was also displayed to help the audience visualize and understand the act. Based on the feedback, the club is planning to organize events that help students to actively indulge more in extra-curricular activities and create a platform for various communities to raise their voices.



Acting Competition

'Acting is magical. Change your look and your attitude, and you can be anyone.'
- ALICIA WITT

On 12th March 2022, an acting contest was organised by the dramatics club during Etamax, in the new lawn inside the college campus. There were two participants in the event. The students in-charge were Vaivasvat Vashisht and Rishabh Mhatre. The teacher in-charge was Mrs. Smita R. The offline event was conducted in order to promote the acting skills of students and provide an opportunity for them to get rid of their fear. The judging criteria was based on the elegance and impact of a given act. At the end, the participants were highly encouraged by the appreciations and suggestions by the experts.



Acting Workshop

"A painter paints, a musician plays, a writer writes - but an actor waits. "
- MARY ASTOR

An interactive and energetic workshop was conducted by the dramatics club which was attended by around thirty students in the new building's seminar hall, in the first floor within the college premises. The students in-charge were Jason Veigas, Saurabh Kaduskar and Vansh. The teacher in-charge was Dr. Sangeeta Das and the staff coordinator was Mrs. Suverna Rhode. The main objective of the event was to showcase the creative side of the participants. It aimed to break the ice and enable the students to get rid of their fear and flaunt their adroitness. This workshop also taught the methods to hone one's skills, to network with other actors, acting coaches, and casting directors. Overall, the event had a great response from students, providing a wide spectrum of knowledge about the world of acting through presentations and active participation. A very positive feedback, for managing and making the entire process a huge success, was assured.



FRAMES



How it started

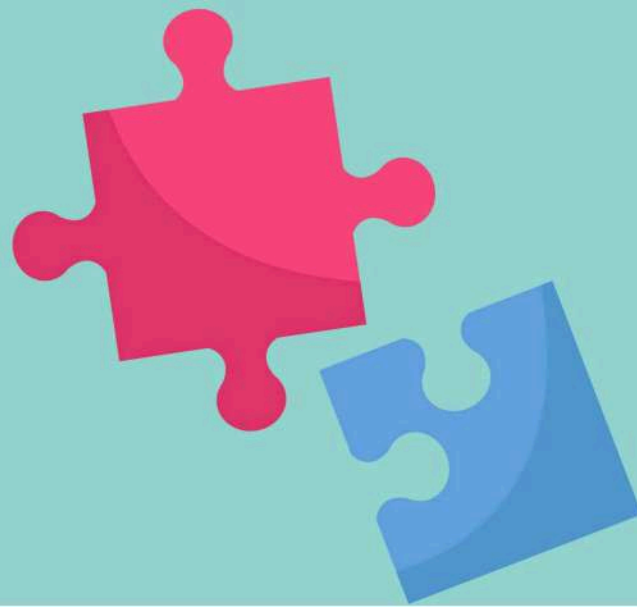
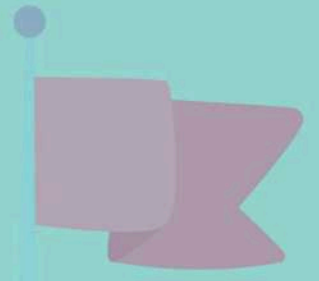
It started by approaching a couple of alumni to interview for this and go forward with this initiative, first person we interviewed was Mr. Aditya bhattar and consequently as the videos got uploaded on social media platforms, other alumni got to know about the venture and were ready to share their inputs and experiences with us as well.

How it is going

It's going great, a lot of alumnis are ready to contribute to this venture. Students are also interested and they have found this venture very helpful and informative.

Challenges

Since we aim to interview people from diverse fields we sometimes couldn't reach a lot of them because of some of the issues like either they are not on social media or the contact info is wrong or due to time commitments they were not able to do the interview.



How we could overcome these challenges

By finding more leads at one go and also taking help from teachers to reach out to them.

Conclusion

It has been going good so far and we request all the alumni to please make some time for this venture and help us so that students get a much better insight of various careers and opportunities from their experience.

We thank all the alumni who have been a part of this series till date and have answered our questions related to their jobs and career path solely for the benefit of the students.

We look forward to having an active involvement of our alumnis for the success of this venture and wish to stay connected with them throughout their journey. We have to keep the momentum going by striving to keep the interviews coming





Careers and opportunities with Mr. Sivaraman Rajaganapathy

28 views Feb 21, 2022 Mr. Sivaraman Rajaganapathy completed his Bachelors in Electrical Engineering from FCRIIT in the year 2011 and further pursued his Masters in Systems and Control Engineering from Indian Institute of Technology, Bombay in 2013. Subsequently he worked on automation testing and validation of semiconductor devices and sensors at Cypress Semiconductor Corp. He is currently pursuing his Ph.D. at the University of Minnesota, Twin-Cities, with a major in Electrical Engineering and a minor in Computer Science. His thesis research is at the intersection of statistical mechanics, biophysics, and mathematical modeling aimed towards studying proteins at the single molecule scale.

00:00 Introduction

01:12 What programming languages are expected from a student to know when he/she graduates?

02:06 How much time should we give to literature survey while doing research?

03:45 How did you identify the right conference for presenting your research paper?

05:01 Is pursuing masters after graduation recommended?

07:04 How do you motivate yourself?

Follow us on:

Instagram - https://www.instagram.com/frames_alumni/

LinkedIn - <https://www.linkedin.com/in/fcrit-alu...>

Facebook - <https://www.facebook.com/vashiframes>

मराठी

MANDAL



जयघोष २०२२

The Marathi Mandal aims to promote and nurture Marathi culture within the college community and foster rich Marathi heritage. Inspired by these objectives, the Marathi Mandal is committed to create bonding among students with an affinity for Maharashtrian culture and delivering the best values to them through events and activities that are culturally relevant. Language, literature, music, drama, festivals and traditional practices, form an integral part of the Marathi Mandal.

Jayghosh 2022 was a large scale cultural event which included singers, dancers, actors and other artists across all years and branches of the college and various acts were performed. The event started with a musical performance with extremely talented singers singing folk music and students playing traditional instruments like the flute and tabla.



First in line was a captivating act put up by the students of the Marathi Mandal on Chafekar Bandhu, where the students taking part in the play were dressed in respective costumes to enhance its visual impact. The students did an exceptional job in portraying the story of how the chafekar brothers took action against officer Rand in the then plague situation. The audience were thoroughly engrossed and captured by the performance and the club was appreciated for its work.

The event was followed by a dance where the dancers wore traditional Maharashtrian attire and gave a mesmerizing performance.

One of the members of the club gave the famous monologue from 'Koni Ghar deta ka Ghar' and had the audience appreciating his performance tremendously. The event was successfully carried out in the New Lawn on the 11th of March with great audience showing up for the event.





MUSIC CLUB

RHYTHM



Music Club- Rhythm

"I think there is a song out there to describe just about any situation."

— Criss Jami

As someone fondly said, "Music is the language of mankind".

One must also add the evolution of mankind and henceforth, the changing language of music with time.

Music Club- Rhythm has a space for music of every kind, and music in all languages.



Alumni Meet 2022

The start of a brand-new chapter of the year 2022 of Rhythm- Music Club arrived with an Alumni meet for the year 2022. The meeting took place on 8th January 2022 on a Zoom video call with the active members of alumni.

Alumni meet occurs annually bringing all the former students together and engaging to create opportunities for everyone, and to add a little fun and entertainment to it, Rhythm welcomed the members with a melodious welcome song, "Yaaron Ka Basta". The Club performed a few more songs in the form of mashups creating a nostalgic environment for every participant, bringing them back to their college even being miles away from it.

The event was a success with everyone's active participation and zeal to bring everyone together once again, under the guidance and leadership of Prof. Audrey Correa and student coordinator - Elisha Gras.



Republic Day Celebration

The celebration continued in the month of January on account of Republic Day which occurred on 26th January 2022.

Republic Day has been a celebration in India for its effective role of secularism, democracy, freedom, and stating several rights in its Constitution since 1950 making everyone equal. The same effect was visible in Rhythm's performance on this special occasion. The performers were given the freedom to select their role in the performance, yielding a great representation of equality and showing casing patriotism in their performances.

A set of songs depicting patriotism and love for the country was successfully performed by the committee and club members on the stage with remarkable efforts by the organizing team of Rhythm consisting of members from all branches - Elisha Gras, Catherine Sunil, Aditya Unnikrishnan, Benji Samuel, Edmond Jonathan, Gracy Samson, Benetta Varghese, Christo Freddy.





A tribute to the Singing Legend

On 6th February 2022, the nation faced a huge loss that could not be described in words. Lata Mangeshkar, a singing legend honored by Padma Bhushan, Padma Vibhushan, Bharat Ratna, and many other prestigious awards, passed away leaving everybody with tears in their eyes.

With the hope that the Nightingale of India rest in peace, a tribute, by the music club of FCRIT, was delivered where songs are sung by her in her time- "Lag ja gale", "Ajeeb Dastaan Hai Yeh" and "Pyar Hua Iqraar Hua", were re-enacted online and the video of which were circulated through social media- WhatsApp and Instagram.



Ice breaker 2022

As the name suggests, the music club organized an ice breaker for all its new members who joined during the pandemic, and old members and core committee, to re-introduce themselves along with fun activities.

The small meeting occurred on 3rd March 2022, in the seminar hall on the 2nd floor of the Annex building, conducting various musical activities and games for all the members of the club.

The games required all the members to form groups of four:

- Rasoda
- Coffin dance (Astronomia)
- It's my Life
- Dhoom Dhadaka Orchestra (Ae Meri Zohrajabeen)

The names of these teams represented a viral song of any time or era.

The various activities involved singing songs based on their decade, artists, and situations. And during the final round, the teams had to collectively translate an English song to Hindi or a Hindi song to English.

The enthusiasm of seventy participants, efforts of the organizing team, and great support by the teacher in charge, Prof. Audrey Correa made this get-together a huge success.



International Women's Day

To create harmony free from stereotypes, inequality, and discrimination, International Women's Day is celebrated on 8th March every year. And to break the bias in a mellisonant manner, Rhythm took the responsibility to make it happen.

The event took place on 8th March 2022, in the Seminar Hall on the 2nd floor of the Annex Building.

The female members of the club performed a variety of songs:

- Fight Song by Rachel Platten
- The Climb by Miley Cyrus
- This is Me by Keala Settle

Celebrating the uniqueness and unity of all women present over there, the event became a success with the appreciable participation of all nine participants and other members of the club.



The Most Awaited

The most anticipated fest of FCRIT, Etamax, took place over the course of three days- 9th, 10th, and 11th March 2022.

On the second day of the fest, Rhythm- Music Club in collaboration with Student Council for Etamax 2022 celebrated a few events:

- Solo Singing
- Duet Singing
- Play with the beats (Instrumental and Rap battle)

All the events came off under the supervision of Audrey Correa and the management of Elisha Gras.

A total of twenty participants and one faculty member along with the judge of the events, Mr. Aditya Neela, an epic Hindustani Classical musician and Mumbai University gold medalist for Indian Light Vocals in the year 2017, brought excellence in music and played a role of icing on the cake.





The celebration in the month of April continued with the warm welcome of first-year students by second-year students who performed a beautiful mashup, bringing freshers closer to FCRIT.

NATIONAL SERVICE SCHEME



NSS

NSS

Activities in November

Road Safety Webinar (Two-wheeler)

Date: 12th November 2021

“Stop accidents before they stop you.”

There are various do's and don'ts while on the road. While most of the standard rules are the same, one mistake is all it takes for two-wheeler to skid across a heavier vehicle resulting in an accident, no matter whose it was. With its benefits of being cheaper and escaping heavy traffic, also comes the weaknesses of the two wheelers and the need to be extra careful while driving one.

Recognising this, The Disaster management club of NSS unit of Fr.C.Rodrigues Institute of Technology organized a three- hour webinar on road safety “Two Wheels One Life - Safe Rider” on 12th November 2021, in collaboration with NGO United Way Mumbai. The event was conducted in the zoom platform and all the interested students had to pre-register themselves before the webinar started. The session started at with the interaction about basic knowledge of two-wheeler safety and traffic rules, then a quiz was given on the same reference. Further in the session, different conditions were shown in which accidents can occur and how to avoid it, how to check tyre pressure, which helmet should be used, etc. At the end of the session the same quiz was given once again to ensure that the participants have understood the webinar.

A certificate of Appreciation too was awarded to the students who had given two quizzes one before the webinar and other after the webinar on road signs, safety accessories and questions were based on the topics covered in the webinar.

Posters:



NSS UNIT OF FCRIT
PRESENTS

Two Wheels One Life

**SAFE RIDER
TRAINING SESSION**

"Road safety is state of mind,
accident is absence of mind."

**REGISTER
NOW**

An initiative of Under the aegis of Supported by Managed by

United Way UNITED FOR ROAD SAFETY Mahindra Rise GLOBAL ROAD SAFETY PARTNERSHIP

*Date: 12th November, 2021
Time: 4.30 PM to 7.30 PM*



Not Circular, But Mandatory Road Signs

STOP

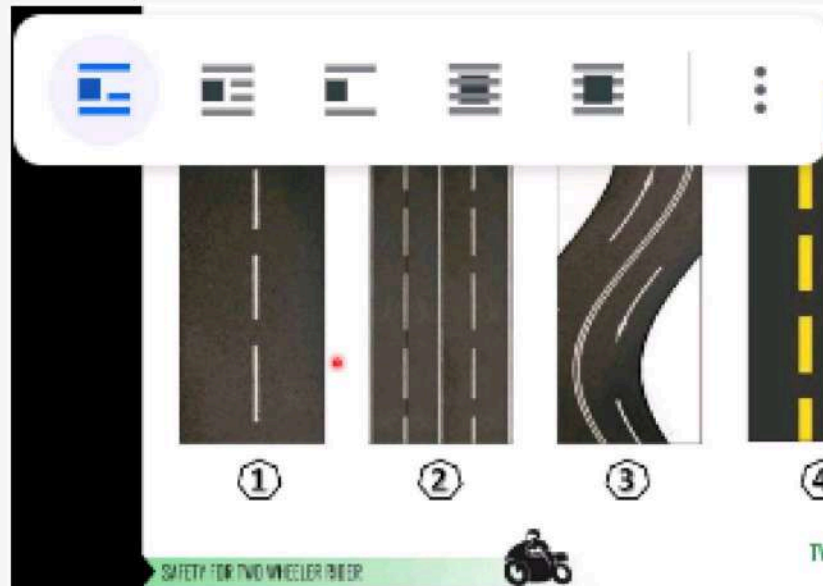
GIVE WAY

TWO WHEELS

Mandatory Signs



TWO Wheels



Personal Protective Equipment's

- Crash Helmet - Choosing the right helmet IS-4151-1993 standard only

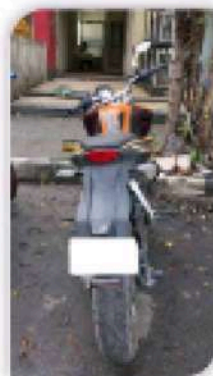


Traffic Police



TWO Wheels

Parking your two wheeler



SAFETY FOR TWO WHEELER RIDERS



TWO Wheels
ONE Life

Animal Welfare General Quiz

Date: 13th November 2021

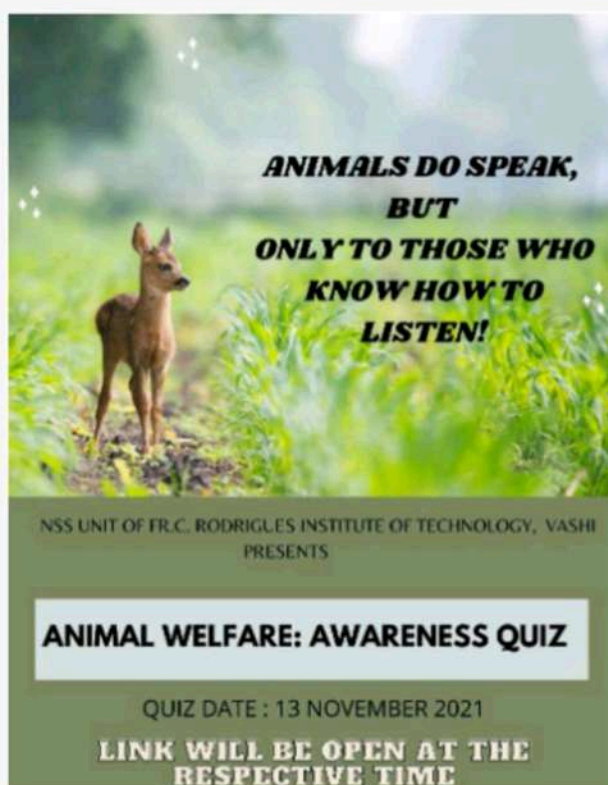
“Be kind to every kind, not just mankind”

How much do we actually know about our fellow inhabitants of the environment, the animals? Do we have our facts right? What laws are being enforced and for which situation related to animal welfare? How are they implemented in our country and what are the organizations under that banner?

These were some of the important areas which were tested in the general awareness quiz held on the 13th of November by the Animal Welfare Club of the NSS Unit of FCRIT.

Photos of top 3 winners were featured on official Instagram handle. At each point of the event, the volunteers of the unit were always present to guide the participants by sharing their contact number in the promotional message.

Poster:



AIESEC Cleanliness Drive

Date: 14th November 2021

“Your surroundings are a reflection of your society and state of mind”

The Swatchh Bharat Abhiyan, or Clean India Mission is a country-wide campaign initiated by the Government of India in 2014 to improve solid waste management. Keeping the same in mind, the volunteers of the NSS Unit of FCRIT gladly lent a helping hand in the #CleanupNavi initiative by AIESEC to make their city cleaner and keep the natural environment healthy. The nodes where the volunteers contributed were Thane, Vashi and Panvel, and the selected areas there were made garbage free.

- Thane : near St. John
- Vashi : Vashi Sea Shore and Sagar vihar
- Panvel : Panvel Railway station area.

Garbage bags, gloves etc. required for the drive were provided by AIESEC, and all the volunteers who participated were awarded an appreciation certificate by AIESEC.

AIESEC  **#CleanUpNavi**



I am a Cleaning Superhero



Nutrition Quiz and Survey

Date: 16th November 2021

“Take care of your body and it will take care of you”

Nutrition is derived from the word “nutrient” and means getting the food and nourishment that you need for health and growth. It is what you feed your body, in the right amounts that determines how well it will work.

Keeping this in mind, the Fit India Club of the NSS Unit of FCRIT conducted a Nutrition quiz and survey, on the 16th of November. The aim for this was understanding the importance of healthy diet practises and to spread awareness about the same, and hence inculcate a will to eat healthy and help avoid problems caused by lack of healthy food. Both the quiz and survey were conducted through google forms and everyone who filled these out, including staff and students, were given a participation certificate as a token of appreciation.



Vegan Outreach Webinar

Date: 20th November 2021

“No appetite is greater than suffering.”

A vegan diet is one that only derived from plants and does not involve meat or any other animal products like milk and its

derivatives. The vegan diet, that originally evolved as a response to lessen animal cruelty and exploitation, is also found to have many other benefits for health and environment.

The Animal welfare club of NSS unit of Fr. Conceicao Rodrigues Institute of Technology organized a webinar on “Food-Plant-Health” by Vegan Outreach on 20th November 2021. The event was conducted on Zoom platform with a duration of one and a half hours.

The session started with interaction about basic knowledge food and how it is obtained, then a few questions were asked on the same reference. Further in the session, information and resources were provided to the student to make informed decisions for compassionate life choices and contribute to protecting the animals and the environment. Every participant, including staff and students, was awarded a participation certificate.





NSS UNIT OF
FR CONCEICAO RODRIGUES INSTITUTE OF
TECHNOLOGY, VASHI

PRESENTS

VEGAN AWARENESS

An awareness program in
collaboration with



VEGAN OUTREACH



Get acquainted with the impact of your
food choices on animals and the
environment

20TH NOVEMBER 2021 | 5PM | ZOOM



Vegan for the Planet

- ☒ Reducing greenhouse emissions
- ☒ Saving water
- ☒ Reduce deforestation
- ☒ Ending world hunger
- ☒ Wellness



VEGAN

Animal Agriculture and Climate Change



One of the Largest Sources of GHG

Meat and dairy produce 60% of agriculture's greenhouse gas emissions despite providing only 17% of our protein



Highest Usage of Land and Water

- Animal agriculture uses 33% of drinking water.
- 70% of the agricultural land, and is the main cause of deforestation!



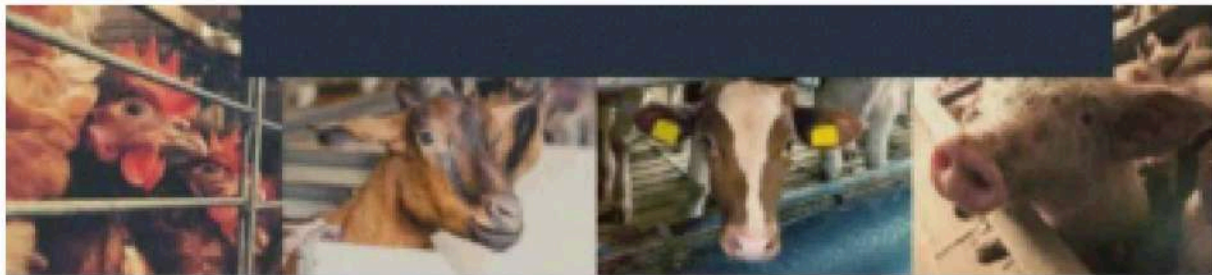
Human Lives

A million people lost their homes due to climate change in 2019. 600 million people will be affected due to climate change events in India.



Biggest Polluter

- 15.3 million tons of methane
- Inefficient waste management
- High levels of groundwater and river water contamination



What is factory farming?

health hazards

hormones

world hunger

antibiotics

cramped cages

global warming

forced impregnation

deforestation

methane emissions

pollution

water wastage

Solid Waste Management Webinar

Date: 21st November 2021

“It’s just one straw- said eight billion people.”

Waste management is a very crucial issue nowadays, with urbanization and increase in industries. If not dealt properly, it can have undesirable effects on health and choke the environment. Hence, the Green Initiative club of NSS unit of FCRIT conducted a webinar on “Solid Waste Management”, on 21st November 2021, as a prerequisite to the 30-day Waste Segregation programme. The speaker for the session was Mr. Vijaykumar Nimbalkar who has been working for the last 18 years in the field of Environment Protection, Conservation and Rural Development.

This two-hour webinar was conducted on Microsoft Teams, and the topics discussed included types of waste, environmental effects, segregation of waste into wet and dry waste and different ways of treating wet waste like compost plant. Students as well as faculty were free to attend the webinar, and the link for it was circulated in the promotional message through WhatsApp along with the event poster.





NSS UNIT OF
FR. CONCEICAO RODRIGUES INSTITUTE
OF TECHNOLOGY, VASHI



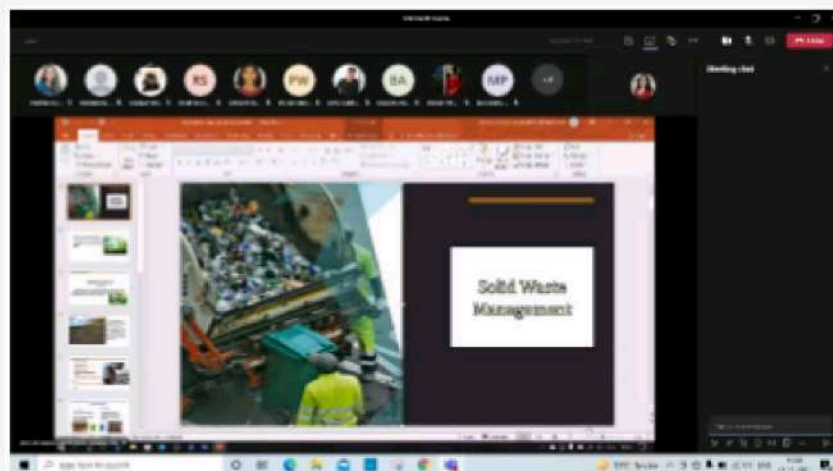
Presents

AN ENLIGHTENING WEBINAR ON

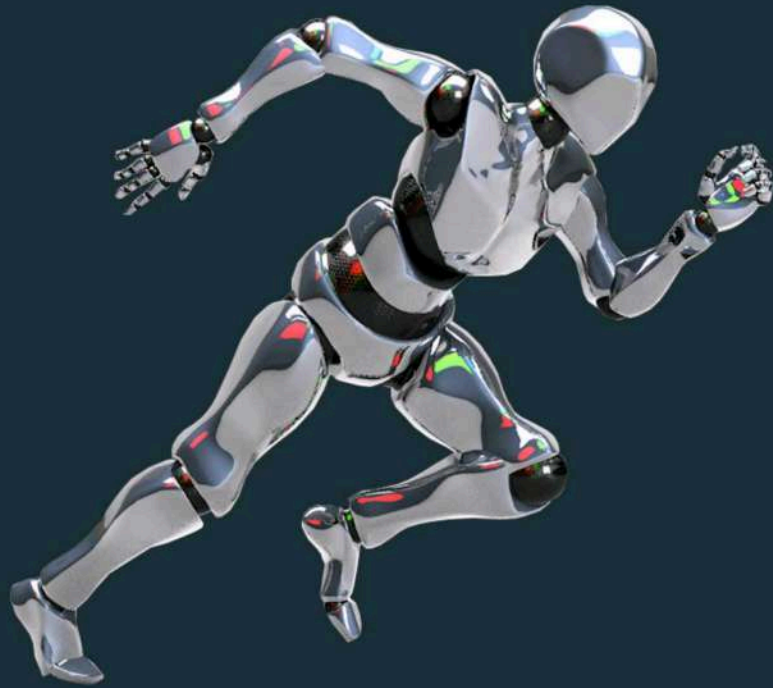
SOLID WASTE MANAGEMENT

By Mr. Vijaykumar Nimbalkar

DATE: 21-11-2021 TIME: 10.30 am -12.30 pm PLATFORM: MS Teams







IT'S TIME FOR FCRIIT'S

ROBOTICS CLUB

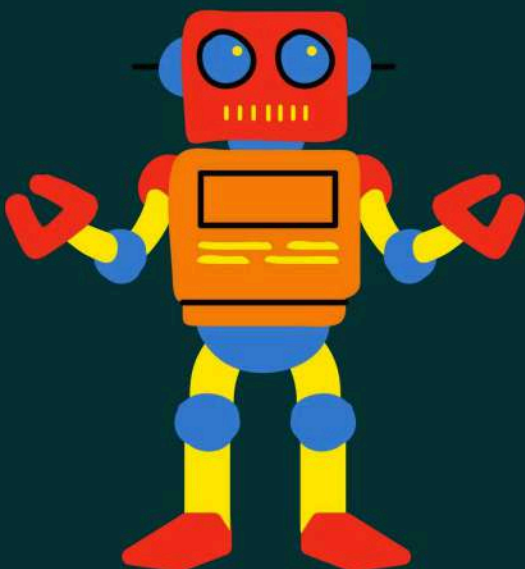
BATTLE OF THE BOTS

ARC Activity Report-1

ARC, the student club of FCRIT is one of its kind on the campus; co-founded by students of the Mechanical, Electronics, and Telecommunication Departments in 2013. The goal of the club is to imbibe and nurture skills in the domain of robotics and automation. The club believes in the motto “Innovate-Practice-Excel”. It is an effort to encourage the exploration of the fields of Robotics and Engineering and aims for the holistic development of students.

Since 2013, the members of the club are constant participants in ABU Asia-Pacific Robocon Contest, an Asian Oceanian College robot competition. Apart from this, the club of young enthusiastic engineers actively participates in different nationwide competitions i.e. e-Yantra, Smart India Hackathon, DST & Texas Instruments - India Innovation Challenge Design Contest (IICDC), and many more inter-college competitions.

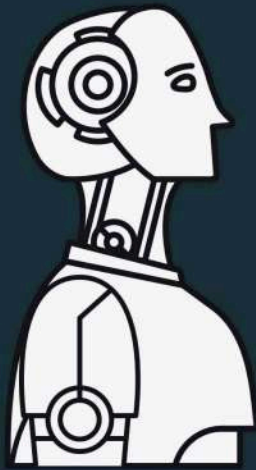
It also provides Workshops and Seminars related to Robotics, Mechanical, Coding, and Electronics to the students by the students or Industry Experts. Fusion 360 Workshop, How to make a career in Robotics Seminar by Expert, IoT, and Arduino Hands-on workshop, Ansys, Eagle, Proteas, Python, Image processing Software Training, are some of the workshops conducted by the ARC.



Participation, Achievements, and Internships Done:

Event	Participants	Rank/Achievement
Eyantra Design Sprint 2021	Atharva Pasalkar, Shrudhi Chaudhary.	Honorable Mention
ABU Robocon 2021	Agnel Robocon Team 2021	Stage 1(Documentation) - Scored 100/100 Stage 2(Video Round)- Scored 72/77 Stage 3(National Round) - AIR 12
Eyantra Design Sprint 2021	Aditya Deokar, Dhruv Kabra, Neha V.B., Yash Kale.	Winners
ABU Robocon 2022	Agnel Robocon Team 2022	Stage 1(Documentation) - Scored 100/100 Stage 2(Video Round)- Scored 91/100
L&T Techgium 2022	Atharva Pasalkar, Shrudhi Chaudhary.	Semifinalists
Solar Decathlon India 2022-23	Dhruv Kabra, Suyash Mali, Shrudhi Chaudhary	Finalists
Eyantra Design Internship Program - Jan-Feb 2022	Yash Kale, Atharva Pasalkar, Neha V.B. Aditya Deokar	1 Month Design Internship in Eyantra, IIT Bombay.





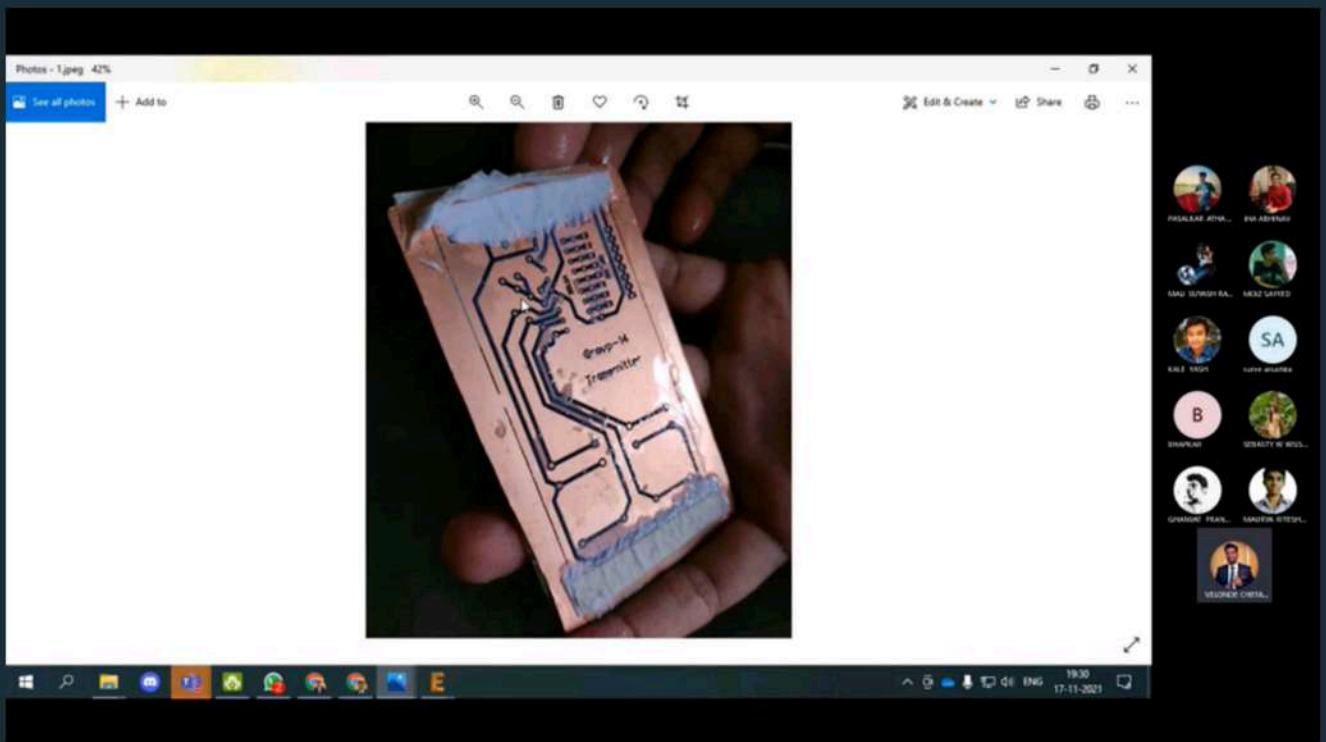
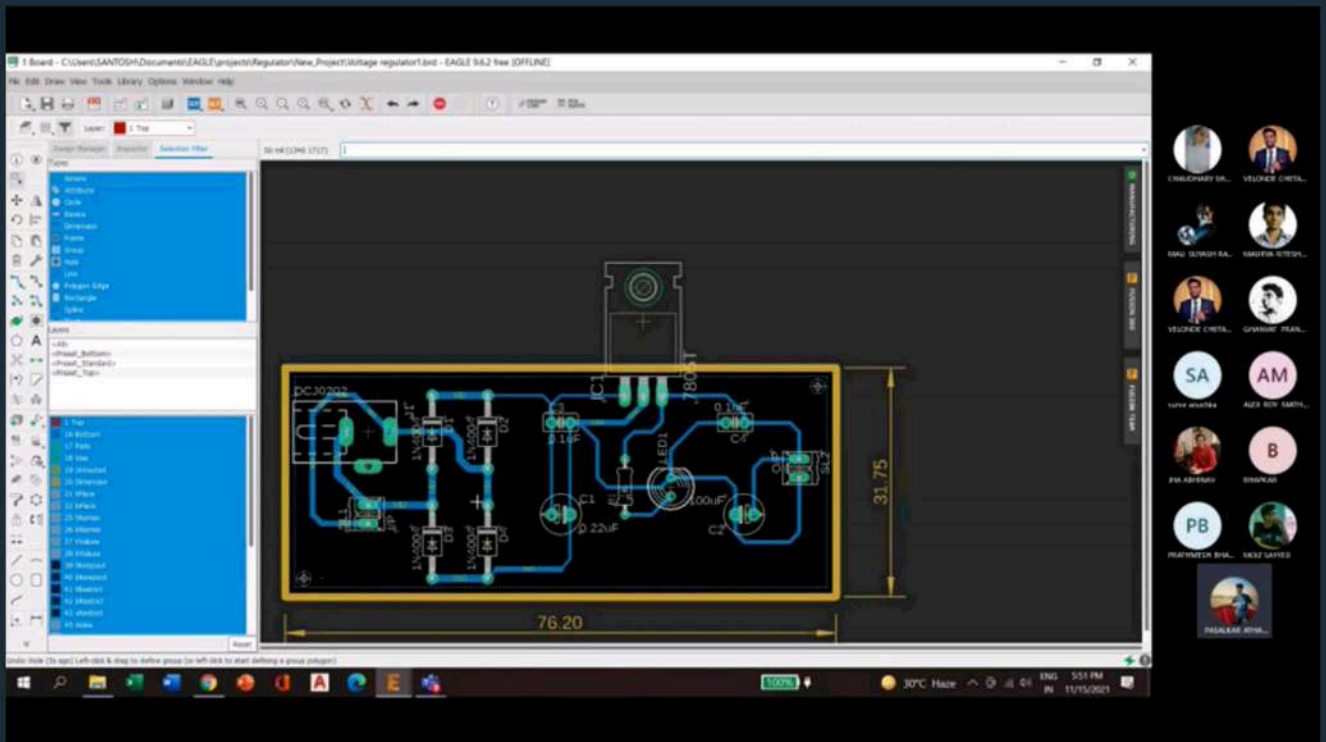
ARC_EAGLE WORKSHOP

ARC Club of FCRIT Vashi had organized an autodesk eagle workshop on 15th and 17th November 2021. The main objective of the workshop was to teach attendees to create schematics, manage libraries and generate fabrication files for the designed PCB layout. The session was 3 hour long which also included doubt solving sessions. Students were initially introduced to the basic theory of PCB, its construction and how a PCB can be modeled easily using a software.

The workshops focused more on project based learning where the participants had to create their own PCBs as well according to the instructions given. With every next session the difficulty level of the program was increased where students also had to create the same PCB as displayed on the screen. This aided students who wanted to learn and design their own PCBs.

It was conducted by 3rd Year EXTC students Chetan Velonde, Shrudhi Chaudhary, Suyash Mali, and Atharva Pasalkar (3rd year Electrical). The 2 day workshop ended with a quiz test in order to understand their concepts of PCB designing learnt from the session.





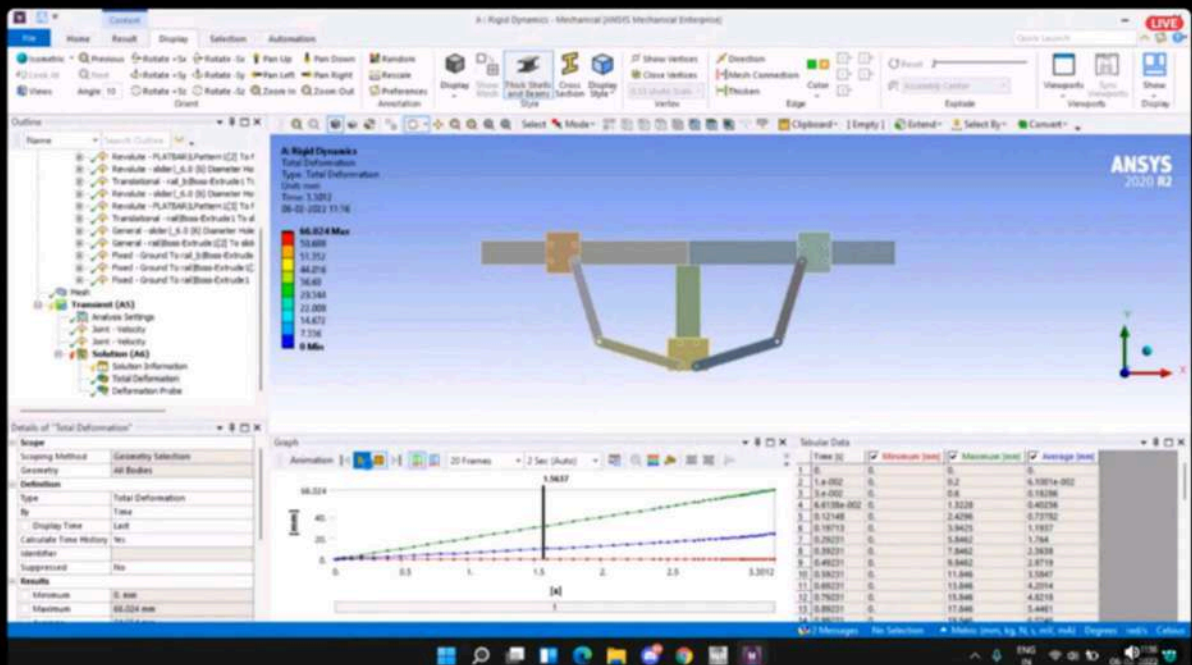
ARC_ANSYS WORKSHOP

ARC Club of FCRIT Vashi conducted a 3 day Ansys simulation workshop from 3rd February to 5th February 2022. The speakers Yash Kale, Dhruv Kabra, Aditya Deokar, and Swanand Shembekar students of Mechanical engineering gave a brief description of Ansys simulation software, its working and its application to various fields. They were made aware about the various engineering problems that could be solved using Ansys software. The workshop focused on project based learning where the speakers briefed on making 3D geometry in Ansys design modeller, meshing, problem setup, solving, and analysis result in detailed manner.

In every session students were taught different ansys techniques and included a total of 4 projects covering Static Structural, Modal, Thermal, and Explicit Dynamic Analysis.

The workshop concluded with QnA sessions and showing higher level project sample analysis.

The screenshot shows a Discord server interface for 'Ansys Workshop'. On the left is a sidebar with a list of members including Yash Kale (marked as LIVE), Abhishek mehta, Aditya, Alex, Atharva Dake, Devanshu patne, Dhruv, Gaunav Bangar, Harsh Pawar, Machlin, MONISH BAFNA, Om Prasad, OMKAR PATIL, and Pratham Salunke. The main window displays a presentation slide titled 'What is Meshing/Discretization?'. The slide content states: 'The process of dividing the body into an equivalent number of finite elements associated with nodes is called the discretization or Meshing. Each element is associated with the actual physical behavior of the body.' Below the text is a diagram illustrating the process: a green trapezoidal 'Object' is transformed into a 'Discrete System' composed of triangular 'Elements' connected at 'Nodes'. The diagram is labeled 'Continuous System' and 'Discrete System - Discretization'. On the right side of the screen, a vertical column shows the avatars of participants in the voice channel.



The background of the entire image is a vibrant green gradient. It is decorated with stylized, dark green fern-like leaves that branch out from the corners towards the center. Scattered throughout the green background are numerous small, white, circular dots of varying sizes, creating a sparkling or bokeh effect. In the center of the image is a large, white circle with a thin green border. Inside this circle, the words "Eco CLUB" are written in a bold, green, sans-serif font. The word "Eco" is on the left and "CLUB" is on the right, with a small gap between them.

Eco CLUB

INAUGURAL CEREMONY



The inaugural ceremony of the Eco club was organized to establish the college's first Eco voluntary group which will promote the participation of student teachers in learning and improving their environment. The event was conducted on 8th April 2022, in the seminar hall at Fr. Conceicao Rodrigues Institute of Technology, Vashi and began at 10:00 am. The event was graced by guest of honour Mrs Rashmi Joshi, Rev Father S. Almeida, principal sir Dr S. M. Khot, Faculty Coordinators Dr Pranali Choudhari and Dr Snehal Kargirwar, the president of Eco Club Ms Neha Mandelkar, teaching staff, the members of the club and the students of the college. The objective of the event was to encourage and motivate students to be more environment friendly, introduce them to solid waste management and e-waste collection. The club aims to make the environment a better place to live in. The event commenced by welcoming the dignitaries with saplings as a token of appreciation followed by the light lamping and prayer ceremony. The audience was addressed by Club's Founder & President Ms. Neha Mandelker, followed by an introduction of the council members. After the introduction, the guests of honour Principal Dr S. M. Khot, Rev Fr S. Almeida, and the chief dignitary Mrs Rashmi Joshi by their words of wisdom inspired and encouraged the attendees about the importance of nurturing and protecting nature for the present and the future generations. Various activities and methods were explained through which everyone can take a step towards leading a cleaner and greener life. The event concluded by a vote of thanks offered by Dr Pranali Choudhary to the dignitaries and attendees.



Creative Corner



Sojourn

- the stay is temporary

Never had we thought life will press pause
On the top of a rollercoaster making jaws drop
The sky was closer but the ground was bolder
We had more than a mind and less than a shoulder

A grave issue with a narrow scope to improve
Caused the sky to shadow to gray from blue
A period of wait that was dull and scary
Will we fall to our deaths or be brought down safely?

Just when we felt like letting go of the rails
Morning light once again shone through the haze
With one pull of the lever, before we had time to shiver
We were down the loop of terror and the ride was over

But what about the feet that had forgotten to walk?
What about those lips that were too numb to talk?
What about the dazzle for the eyes that only saw the dark
Was it possible for things to ever regain their spark?

Instead of letting those questions pound our mind
We trusted the greatest healer, time
No matter how overwhelming it was, we stood up to fight
We learnt our lesson to make the most of life

And beyond this, I believe, is an upward trajectory
Our hearts have become warmer by helping those in need
We struggled to adapt to the changes initially
But with the support of those we loved, it was all temporary

The elevator was down, and we had several floors ahead
We realised our abilities when we had to take the stairs
We learnt to hold the umbrella when drenched in the downpour
We are walking out of the sojourn, better than before.

-Bhagyashree Lakshminarayanan
Computer, Sem 8

The Big Money Plant...



"Big, how do you have such large, beautiful leaves and I have small ones, despite the fact that we are both money plants?" Small asked. "I have survived in the situations of storms, thunder and dust, and every day is a new challenge for me to overcome my fears, which have made me strong and beautiful", Big replied. Small asked again, "Big, that is amazing, but can you please tell me why I am not able to grow such leaves?". "Small, you are under the shade near a window, where everyone around you cares about you, they give you water and pesticides at the time of need, change your position according to the sunlight. You don't have to do anything for yourself, you are at the level of your comfort zone, and if you want to grow, you need to step out of comfort zone and face the challenges like I do", Big answered. "That seems to be difficult. You are brave Big and I admire you a lot. I hope one day I can become like you", Small said. "Yes, you will", Big replied.

Here, Big and Small are not just plants; they represent two characters inside us - One who faces challenges every day and the other who remains in the comfort zone. Every day is not the same, the one who remains in the comfort zone also has to face a new challenge at some point of time. But first, it has to face the challenge of coming out of the comfort zone. Change is constant, and everyday life gives us new questions to be solved, but each time, the standard solution doesn't work. For example, consider the last three years of our life - the normal one, the pandemic, and the post-pandemic. It wasn't easy, as we were performing our daily tasks as usual and one day, suddenly, were locked up in our houses. We were forced to see and do things differently while sitting at home but we all took it as a new challenge and conquered it bravely. As we became comfortable in that situation, the challenge changed again - we had to transition back to our normal lives. This proves every day we don't get the same question paper and we need to find new solutions, just like Big.



Big faced thunder, lightning, storms, and dust and still stayed strong and eventually grew beautiful. Likewise, we also have to face new challenges, leave our comfort zone behind, conquer our fears, face the world with confidence and finally our life will become a beautiful journey. For example, the challenge we all are facing right now is going back to normal life, again switching between virtual to the real world, and facing the same person with a different personality. All these changes are scary but we need to come out of our comfort zone.

Do you all wonder how Big survived in such situations where no one was there to take care of it? The answer is very simple, it was rooted strongly in the ground, stands bravely in storms looking into the eyes of thunder, and because of its efforts, it gradually grows beautiful. Similarly, when we face difficult times, we must accept the challenge with confidence, and never set ourselves back into the zone of comfort to avoid it. Eventually, we will become confident and, set ourselves free off all kinds of fears and grow our "big leaves".

"Never look at the challenge as a problem, look at it as a new level of video game that we enjoy playing and winning..."

- Aparna Shrivastav



The Frog and the Nightingale

"Once upon a time there was a frog living in a bog under a samac tree. He used to croaked every night from dusk to dawn. All the creatures used to get irritated from his voice but they had not other choice as any insult, stone, brick nothing could stop him from singing. But one night, a nightingale came and sat on that sumac tree and started singing, all the creatures were amazed to hear such a melodious voice. After she stopped all creatures clapped and appreciated her. She was not used to such applause so, again next night she started singing but was interrupted by that frog. She said sorry, and ask frog did he want to say something? The frog said "you have a sweet voice but not that good enough. You should learn from me how to sing. With yourself you will be always a beginner but with me you will be a winner."

After hearing such critic nightingale became sad and asked frog to help her. So, from day to night frog made her sing and charges other creatures for her singing show. From far far away creatures used to come and listen to her songs. Even in bad weather when nightingale was not able to sing he scolded her and made her sing. Even after all this he used to say she was not good enough. Then little lately she became sad and her voice became pale. And eventually at one show nightingale veins burst and she died. After which frog said" you should always make our own songs and sing like I does". The heartless creature again started to sing in his croaked voice."



Its a summary of poem written by Vikram Seth- The frog and the nightingale. One story but tells different scenarios, the frog though everyone hates him, criticise him he never stopped from doing the things he loved to do. But also was egoistic. The nightingale, gifted with wonderful talent but was fallen for applause and believed the wrong person and not to her talent.

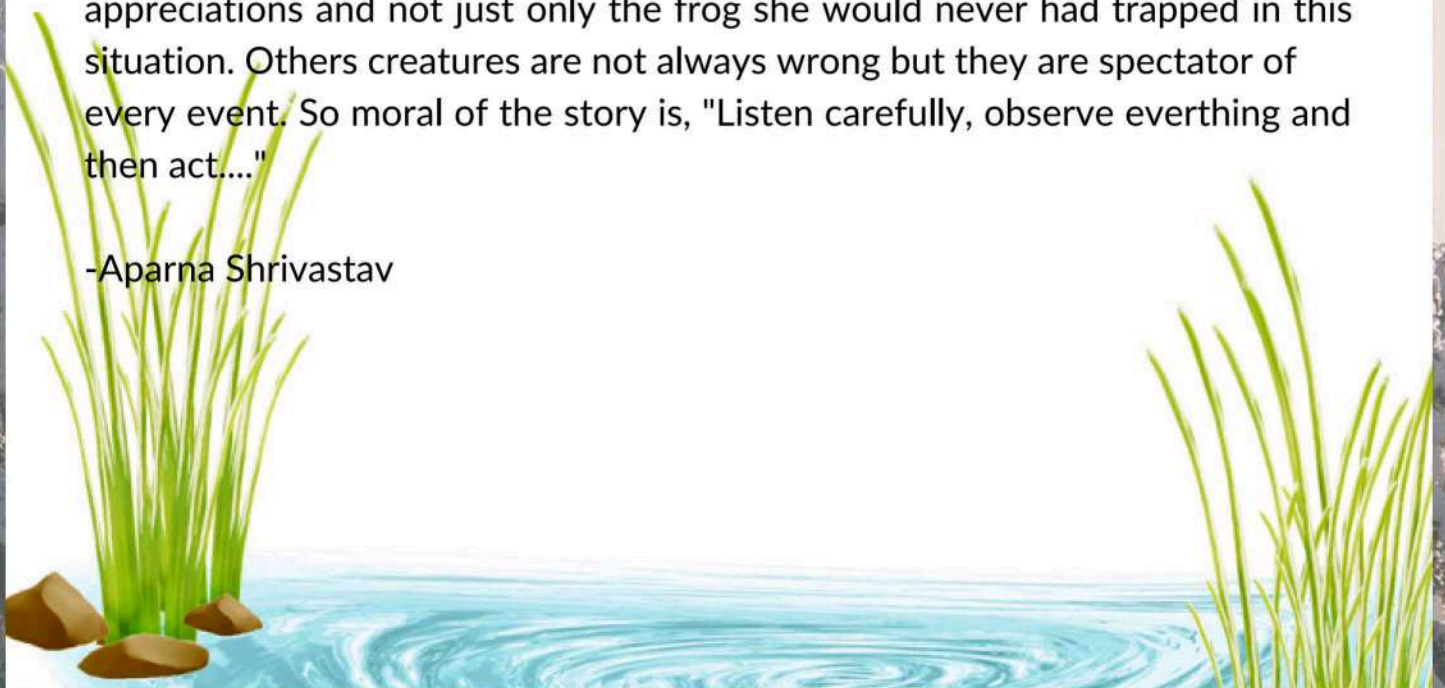
The end is tragic "Does nightingale really deserved what she got?" Definately not!! What was her fault? Being underconfidened or being craved for applause or being innocent to understand true self of the frog? "Was it frog's insecurity?" or "he was just jealous of nightingale?"

The answer to these questions differs from one's perspective, but then what's the really story is all about? The nightingale represents ourselves, the frog represents the people who never what to see us successful and happy. The others creatures are the society who are always interested in drama or the better word called "TAMASHA". The frog knew nightingale was far better then him so, he manipulated her used her to satisfy his greed. The nightingale was innocent creature to understand his jealousy. The audience always enjoyed the show but never thought about the violence against innocent creature. And eventually all this led to the unfaithful end.

What if for once nightingale listened to frog's voice and thought of her talent and believed in it? The end would be different, the nightingale would have flew with happiness and beautiful end.

But wait, there is very small but powerful detail still left out. If frog has listened to other creatures and have stopped singing maybe he have discovered his real talent. Also, if nightingale has also listened to her appreciations and not just only the frog she would never had trapped in this situation. Others creatures are not always wrong but they are spectator of every event. So moral of the story is, "Listen carefully, observe everthing and then act...."

-Aparna Shrivastav



Time as sojourn

Recently i went through a rabbit hole about reading, researching and getting to know more about time and it's philosophical cultural and scientific aspects. Time, For a six year-old its ticking of clock, for a business man time is money for scientists it's the relativity theory. Time is around us , everywhere and so we tend to think we know "time". We know that its universal and flows in one direction we know it's internal and never ever stands still. That its immortal.

We all have heard about the immortality of time, in the form of tales, songs and ideas throughout history. The inescapability of time has always been a central concept in human thought; numerous ideas and concepts of time have been developed in the fields of philosophy, science, and literature. When you think about it, everything around us is bound with time. From the flowers on the side of the road to stars in our universe, every single thing's existence is measured in terms of time. But then it makes one wonder, when did time actually "start"?

I've read many theories around origin of time, but none of them seem to satisfy my curiosity. Some modern science fanatics believe that origin of time can be traced back or be related with the Big Bang, some people think time was created by celestial beings. A lot of cultures around the world have multiple theories of their own about the origin of time. Buddhist and certain aspects of Hindu mythology represent time as "kaal chakra". It states that there are multiple chakras or wheels of time which are intertwined between the cosmic greatness and the human body itself, that time flows the same way blood in our capillaries does and we're one with nature itself. Whereas Christian theologians believe God himself exists outside space and time and he's the ultimate creator. Time itself being part of God's creation according to them, there was simply nothing before he created it!

That's when physicist Stephen Hawking introduced us to the concept of "singularity", the period before big bang when temperature, gravity and spacetime itself existed as infinity. It is the ultimate cataclysm, beyond which our cosmic ancestry cannot extend. The theory of singularity is currently the only explanation we have for the origin and immortal existence of time as we perceive it today. Stephen Hawking has discussed more about the beginning of time in his book "a brief history of time". Although if I were to talk about it today it'll take me hours and will probably end with all of us leaving this hall with a severe case of existential crisis, so I'll skip it. Even Stephen Hawking himself was prohibited from bringing this up during a lecture in Japan, because people were afraid the strong and confusing nature of the theories might affect the stock market!

Ah! There is lot to talk about time but For now, at least, we fortunately only have to worry about the time we have in our hands and don't have the need to question the philosophical aspects of it.

Just like how Einstein explained, "Put your hand on a hot stove for a minute, and it seems like an hour. Sit with a pretty girl for an hour, and it seems like a minute." Time may be immortal in retrospect, but it's relative for all of us in different ways and situations. But that's also what makes it so important for us; time may be immortal but we aren't. We are finite beings and it's in our hands to utilise the time given to us as efficiently as possible. Because nobody knows how much time we're guaranteed in this world. People can die at any age and from any reason, and no one can predict the future. Being aware of this uncertainty can have a dramatic effect on how we live our life.

INTERVIEW SECTION



Interview Section

Interviewee: Mr. Pranit Jaiswal

Interviewer: Agrima Kumar (Computer, Sem-4)



Pranit Jaiswal is currently working as a Data Scientist at Tesla. He completed his BE in Information Technology from Fr. Conceicao Rodrigues Institute of Technology and MS in Information Management from the University of Washington. His passion lies in Data Science and Business Intelligence to utilize data-driven techniques in conjunction with a sound knowledge of business processes for driving meaningful insights and business impact.

For someone who hasn't heard about Data Science and Analytics, what would the fundamentals of this field Consist of?

Data Science is a very vast area, and the answer might vary. It has been around for quite some time now, but industries or companies had started leveraging it in the past decade or so.

I feel the most important skill to have is to understand how a particular problem or an issue can be broken down to its smallest form and you are curious enough to dive deep into what different kinds of data speak to you. Every data has its own story, and you should be curious to venture into as many stories as you can.

In addition, on the technical side, the field is majorly an intersection of statistics, machine learning, and programming, particularly those using scripting languages. Someone just getting started should try to solve as many real-world data science problems as they can.

If you could, in your own words tell me a little bit about your background and how you came about being a data Scientist and working for such big companies?

I think it all started when I had completed my first year of engineering at Fr.

Agnels. I had no idea what data science was back then and had heard about it somewhere in a YouTube video or at a conference and I wanted to know more about it. As someone who had no background in data science, it was a little difficult navigating and understanding it. But I started by learning the prerequisites during my engineering and through online resources available at that time and I applied the concepts to real-world problems. Consequently, during my final year, I worked on a project on Recommendation Systems which is one of the subclasses of machine learning and it opened a big platform for me. Also collaborating with my mentor, Anand Sir as well as my team members gave me a new perspective and perspicacity in Data Science and machine learning. As I researched more about the field, I could see it as my career, something that I felt I would enjoy working on every single day for the rest of my life.

So found your calling with Data Science and Analytics but before that were there any fields or areas that you were considering pursuing?

Initially, it was a little difficult for me because the field was upcoming, and I barely knew anyone pursuing the same. But once I had made up my mind to follow this as a career, I was focused and didn't really consider any other field.

Why did you choose to pursue your masters at the University of Washington?

When I was in my final year of engineering, I remember I had not opted for placements and the reason behind it was that I didn't want to work in a purely consulting or a coding role. After completing my bachelor's, I started looking for Data Science opportunities in companies as well as explored the possibility of graduate studies. What I concluded was that it is very useful to have formal training with a focused curriculum to excel in it.

So, I decided to pursue a master's degree and the University of Washington gave me an option to choose two specializations – Data Science and Business Intelligence. I found that the curriculum was tailored to bridge the gap between technical and business knowledge. This skill is really important because once you are in the industry, you need to be able to leverage the technical knowledge to solve problems and at the same time explain them to non-technical stakeholders. I thought that the University of Washington was a perfect fit since it did a great job of teaching this skill to me.

So, the tech industry is often referred to as being unreliable since it is ever evolving. Do you have any practices that you follow to constantly be at your best?

As you rightly pointed out, the industry is unreliable but the key takeaway when it comes to being at par with any type of skill, be it technical or non-technical, is to have a plan. Often we're asked questions such as where you see yourself in five years. Students should take this question seriously. To give an example, it has been five years since I graduated. If someone back in 2017 had asked me what my goals were in the next five years, the work I am currently doing in 2022 should have been my answer to it. So, it is important for students to have a rough plan in mind for a start.

Parallelly, keep up with the current trends, learn new concepts, and network with alumni or individuals working in the field you are interested in. These are some of the practices that I would recommend to constantly be at your best.

According to you, what has been the most difficult part career-wise till date?

It is not necessarily career-related or personal, but I think priorities keep changing. Maybe not every day but as and when something big happens in your life and the difficult part with these changing priorities is to decide about what seems right in that moment. To deal with it, what I do is to break those priorities into smaller chunks and get a depth of each chunk. And while figuring each chunk out, somewhere at the back of your mind, you know exactly what you want. It is like flipping a coin to make a decision. When you flip a coin, while the coin is in the air, you know exactly what you are hoping for. Similarly, when you are trying to figure out your priorities, you know what you want next and can work towards it. It is not necessarily a one-stop solution, but it helps.

What is the one advice you would give to your younger self who's currently attending college?

To advise my younger self or current students - although the college is strict with its rules and regulations, enjoy as much of it as you can, within boundaries of course. Be it lectures, college festivals, or hanging out with friends, make the most out of it. Because once you graduate, you won't get this time back. Your friends will be in one part of the world, and you'll be in another. So, you might not be able to meet them. It's only the memories that will stay with you.

MEET THE TEAM



EDITING

- Bhavana Dornala
- Devoushka Yadav
- Agrima Kumar
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- Ghrithik
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DESIGN

- Aakash Yadav
- Bhavana Dornala
- Devoushka Yadav
- Disha Kaw
- Agrima Kumar
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- Afaz Karbelkar
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CHIEF EDITOR

- Mrs. Tuhina Bose



Tuhina Bose
(Chief Editor)



Bhavana
Dornala
elec-4



Devoushka
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Disha Kaw
Comps-4



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