

Fr. C. Rodrigues Institute of Technology

Department of Computer Engineering

Sector - 9A, Vashi, Navi Mumbai – 400 703, INDIA.

Telephone: 022-2777 1000, 2766 1924, 2766 0618. Fax: 2766 0619

Website: www.fcrit.ac.in

CSI Committee (2019-2020)

Core Committee

Convener	Mrs. Shweta Tripathi
Co-convener	Mrs. Shagufta Rajguru
President	Sanjana Pradhan
Vice President	Soumya Haridas
Secretary	Romik Amipara
Treasurer	Trisha Lewis
Executive members	Roshni Johnson Linda Thankam John Tryambak Gour Sairam Tushar Maddala

Committee Members

Committee	Executive Member	Members
Documentation	Roshni Johnson	Digina Derosé Lieta Lobo Shreyas Labhsetwar
Venue	Linda Thankam John	Rutuja Deshpande Evan Velagaleti Alistair Baretto Noel Pudussery
Sponsorship	Tryambak Gour	Anshal Antony Elroy Gomes



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		Arushi Sinha Prajyot Durgavale
Food	Sairam Tushar Maddala	Piyush Kolte Joel Shaju Jison Johnson Shreeraj Pawar Neha Ann Joshy Anchal Maria Chiramal

Cryptex Workshop

1.	Android App Development	Prateesh R K Vikas Tripathi Melvin Thankachan Nikhil Tatpati
2.	Web Development	Nixon Paulson Jefin Francis Suresh Jha Rohan Sawant
3.	Machine Learning	Shreyas Labhsetwar Piyush Kolte Raj Salvi Alistair Baretto Parth Shinde
4.	Python	Prajyot Durgavale Digna Deroose Lieta Lobo Christy Mathew Veerasai Subramaniam



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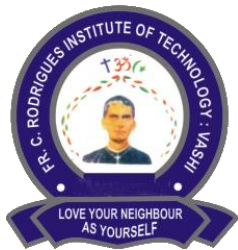
Cryptex Competitions

1.	Live in code	Sairam Tushar Maddala Elson Pinto
2.	DCODE	Noel Pudussery Alistair Baretto Evan Velagaleti Christy Mathew
3.	Cluedo	Aishwarya Mathew Riyali Panmand Rutuja Deshpande Anchal Maria

Events conducted:

1. ACCESS 2019
2. Cryptex Workshops and Competitions
3. Workshop on Solving Real Time Projects
4. ACCESS 2020
5. Workshop on AI and ML
6. CodeSprint
7. CypherHack
8. TPP
9. Technova

Dr. Lata Ragha
(HOD-Computer Engg.)



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CSI- FCRIT Second Half 2019

“The highest education is that which does not give merely education but makes our life in harmony with existence” -Rabindranath Tagore

The Department of Computer Engineering in concomitance with the CSI (Computer Society of India) chapter of FCRIT Vashi organized various activities for the students in the academic year 2019-2020 to sharpen their technical acumen and serve as a window to the corporate world.

ACCESS 2019

Under the ambit of CSI, several activities were organised for students to hone their technical skills. The students were given a much-needed competitive platform to showcase their talents explicitly through the Summer Project Competition which was conducted by the Computer Engineering department under the CSI-CRYPTEX banner on 12th July 2019. The students diligently spent their vacations for the same and presented excellent exhibits. The best projects were chosen and were then announced as the winners of the competition.

The key note of this academic year was the inaugural function of ACCESS- Agnel Computer Engineering Students Symposium which was held on 20 July 2019.



The programme commenced with the inauguration ceremony, followed by the speech delivered by the CSI president Ms. Sanjana Pradhan who verbalised on CSI and highlighted its importance. A speech was given by Dr. Lata Ragha, HOD-Computer Engineering, shed light on various departmental activities and served as a source of encouragement for students. In his address, Vice Principal Dr. Milind Shah familiarised the students with the “Washington Accord ” and cited the purpose and the importance of the same. The chief guest, Mr. Ashish Satpute spoke extensively on the need for the students to sharpen their technical acumen. The



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dignitaries present were the Vice Principal – Dr. Milind Shah, the HOD – Dr. Lata Ragha, the convener of CSI – Mrs. Shweta Tripathi and the convener of CRYPTEX – Mrs. Shagufta Rajguru.

The felicitation ceremony of the summer project winners took place. The winners were:

First Prize -

Evan Velagaleti, Raj Salvi, Melvin Thankachan, Vikas Tripathi, Veerasai Subramaniam for “Real Time Object Detection”.

Riyali Panmand, Soumya Haridas, Shreyas Labshetwar, Piyush Kolte, Rutuja Deshpande for “Predictive and Prescriptive Analysis of Plant Diseases”

Second Prize -

Jennifer Fernandes, Elson Pinto, Anshal Anthony, Arushi Sinha for “Smart Doorbell System Using IoT.

Sureshkumar Jha, Jefin Francis, Nixon Paulson, Christopher Cardoza for “Daycare Management System”

Third Prize -

Parth Shinde, Rohan Sawant, Himanshu Pandita, Chinmay Chaudhari for “Power Consumption Indicator”.

Mrunal Bhalerao, Elroy Gomes, Trisha Lewis, Tryambak Gour for “Mobifi Car”.





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The inauguration ended with a vote of thanks delivered by CSI Convener Mrs. Shweta Tripathi.

The seminar consisted of 4 sessions.

The first session was conducted by the chief guest and key note speaker Mr. Ashish Satpute, who is a Senior Manager at Tata Consultancy Services. In an illustrious career spanning over 21 years, Mr. Ashish has successfully donned several hats. He has also imparted Cyber Crime Investigation training to Police Officers. He graduated from SPCE - Mumbai and pursued his PGPMX from IIM Indore. He spoke extensively about the different emerging technologies and their current market value. He remarked that the students must choose their domain purely out of their interest, and try to sharpen their skills in that domain and to break away from the crowd mentality and try not to jump the bandwagon of popular and trendy technology.



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The second session was conducted by Ms. Lakshmi B. who is currently pursuing her Ph.D in Environmental Engineering from IIT Bombay. Through her session she conveyed the message of sustainable engineering and the urgent need to gravitate towards alternative energy synthesis. She also spoke extensively about her research at IIT-B where they primarily focussed on waste management and how they recuperated the formerly polluted water bodies and cited several case studies to elucidate the same. She concluded with a conjecture letting the students think about sustainable ideas for the future.





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The third session was conducted by Mr. Pratik Hegde. Mr. Pratik is an alumni of FCRIT Vashi. He went on to pursue his PG from VIT, Vellore. In his experience of working in the IT industry for over 5 years, he has worked with several leading MNCs like Accenture and NetApp and also is the founder of AntiQ Solutions. Through his interactive session, he tried to explain the importance of knowing and prioritizing customer needs and to tailor the product accordingly. He reiterated the role of engineers in society and encouraged the students to come up with viable solutions to improve the quality of life of human race.



The 4th session was conducted by Mr. Nirajan Reddy, CTO and Founder of NetConclave Systems. He delivered a session on cyber security wherein he talked about the recent security and privacy risks (Eg. Face app). He discussed primarily on how finding out vulnerabilities of different websites can help us get recognised in this security industry. He also discussed the growing need for this industry to flourish in India.





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- **CRYPTEX Competitions**

The following technical competitions were organised (under the CRYPTEX banner) on 12th September 2019. According to the organisers, the idea behind conducting these competitions is to encourage students to apply their technical knowledge to devise solutions for real life problems. These team competitions also nurture a healthy attitude of working together as a team.

The competitions that were conducted are as follows:

1. **CLUEDO**

A Technical Treasure Hunt in which the student teams were given a series of (technical) clues, which eventually would lead them to their ultimate goal.

2. **LIVE IN CODE**

This competition involved solving relatable real-life problems encountered by us with the help of codes.

3. **DCODE**

Using different decoding techniques, the student groups were expected to crack the code and proceed to the next level. The final round involved decoding the WiFi-Password.

The winners of these competitions are as mentioned below:

DCODE

Ramesh Angela J., Bhagyashree L, Julie Jose, Merin Philipose

LIVE IN CODE

Rachit Pulhani, Sahil Bansal

CLUEDO

Kotarkar Anuj Surendra, Fernando Edwin Hipson, Merwin Samuel Dharmaraj, Charivukalayil Jitin John



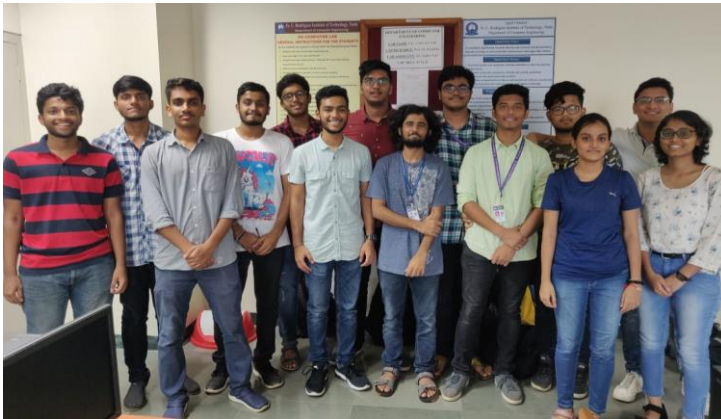
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- **Workshop on Solving Real Time Projects by Mr. Pratik Hegde**

The ‘Workshop on Solving Real Time Projects’ was conducted by Mr. Pratik Hegde, a Senior UX Designer at CitiusTech on the 28th September, 2019. This workshop was conducted as part of the activities under the CSI chapter of Fr. C. Rodrigues Institute of Technology. An enthusiastic batch of 11 students from various branches attended the workshop. The students had submitted their questions for Mr. Pratik prior to the workshop. All questions submitted were addressed during the workshop.

The workshop began with a brief introduction of everyone present, with emphasis on the on-going projects undertaken by the students. Mr. Pratik explained the importance of correctly defining problem statements, collecting requirements, identifying the stakeholders and scope definition through simple examples. He also explained the impact on the projects if these were not done properly. Next, he explained the ‘5 Ws’ principle for writing a good problem statement. He explained the importance of project planning and briefly touched upon the Software Development Life Cycle (SDLC).

He spoke about the concept of an elevator pitch. He also conducted a small activity where the students were asked to perform an elevator pitch (pitch yourself in 45 seconds) for partnering with Amazon. This was an interesting activity for the students. He highlighted the importance of knowing “How to pitch oneself”. He also talked about the different aspects of a pitch for getting a project.

Next, he took up the topic of prioritising features for a project and talked about three main aspects for the same – importance of the feature, usefulness of the feature and effort required to implement the feature. He touched upon topics of deciding and managing costing for projects as well.

The students actively interacted with Mr. Pratik throughout the session and made the most out of the workshop. He talked about simple yet effective ways for students to successfully turn a ‘project’ into a ‘product’.



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- **Cryptex Workshops**

CRYPTEX had some exciting workshops conducted under its banner.

The workshops were held on 23rd and 27th of July 2019 and were conducted on the following topics: Machine Learning, Python, Android App Development and Web Development.

- a. The Machine Learning Workshop taught the students the fundamentals of Machine Learning and Data Analysis.
- b. The Android Workshop taught the basics of Android app development.
- c. The Web Development Workshop focused on the creation of websites.
- d. The Python Workshop aimed at familiarising students with the Python language.



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Brief Activity/Event Report

- Name of the Activity/Event** : ACESS - Organised By Department of Computer Engineering & CSI Chapter Of FCRIT Vashi
- Activity/Event Venue & Date** : Classrooms AX 406, AX 408, & AX 410 , New Building , 14/02/2020 & 15/02/2020
- Nature of Participants** : Students of FCRIT , Vashi
- Number of Participants** : 200
- Student Coordinator** : Ms. Trisha Lewis
- Staff Coordinator** : Ms. Shweta Tripathi
- Brief Summary of the Activity/Event :**

a) Objectives

- Providing the students with an insight into the corporate environment.
- Inculcating Techno-Scientific Temperament in students.

b) Technical Description

In its relentless pursuit of grooming students to acclimatize to the corporate environment, the Department of Computer Engineering in concomitance with CSI Chapter of FCRIT Vashi organised the annual departmental seminar.

Day 1 (14/02/2020)

Students of Computer-Semester VI were addressed by Ms. Deepti Goel. A Project Management Professional in the Pharmaceutical Industry, she is currently heading the Harrison's Tech Consultants firm. She specializes in the domains of People and Line Management, Auditing, Clinical Project Management, Training and Development and Vendor management. Through her session she exhorted the importance of project management and a growing need of PMPs in the corporate setup.

Day 2 (15/02/2020)

Students of Computer-Semester IV were addressed by Mr. Karan Balkar. He is currently working as the team lead at LTI. His areas of expertise include the domains of enterprise mobility and mobile app development.

He verbalised on the importance of ethics and etiquettes in the corporate setup.



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Students of Computer-Semester VIII were addressed by Mr. Pawan Desai . A former Lt. Commander at the Indian Navy, he is now heading Mitkat Advisory Services Pvt Limited, an Indo-Singapore based integrated security and risk mitigating firm. His areas of expertise include Disaster Recovery and Business Management.

His session extensively focussed on the domain of cyber security and talked about the veneer of privacy that supposedly exists on the internet. He also spoke in detail about Bit coin and its implications and legal validity in India.

C) Outcomes

- The students were provided a window into the corporate environment.

d) Activity / Event Photograph



Student Coordinator

Staff Coordinator

HOD

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Brief Activity/Event Report

- Name of the Activity/Event** : AI & ML Workshop conducted by CSI – Computer Department in association with WeCan Educational Organization
- Activity/Event Venue & Date** : Classroom AX 409 , New Building , 11/01/2020 & 12/01/2020
- Nature of Participants** : Students of FCRI, Vashi
- Number of Participants** : 26
- Student Coordinator** : Ms. Roshni Johnson
- Staff Coordinator** : Ms. Shweta Tripathi
- Brief Summary of the Activity/Event:**

a) Objectives

- Exposure with Industrial Professionals to groom a career path.
- Unifying Technical Reviews with the Recent Technologies.
- Fostering Scientific Temperament in students.

b) Technical Description

Day 1

Machine Learning and AI are omnipresent technologies, and over the years with technology taking rapid strides, ML and AI have evolved into indispensable technologies.

The first session primarily focused on familiarising the students the nitty gritty of the same. This session was delivered by Mr. Gaurav Singh, CEO – WeCan Education. He exhorted the students to foster scientific temperament and not to restrict themselves to the confines of their syllabus.

His session covered the forth mention topics:

1. Introduction to AI & ML – Applications and their subcategories
2. Python – Introduction & Basic Programming Concepts
3. Introduction to TensorFlow, Keras, Numpy, Matplotlib & Pandas



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Day 2

The second session aimed at providing a hands-on experience to the students. The students had their shot at creating programs based on regression. Apart from this, the students were also introduced to Open CV, SVM and Decision Tree. The session concluded with Mr. Gaurav quoting Dr. Andrew Ng "AI is the new electricity " and encouraging the students to keep themselves updated and never stop learning.

c) Outcomes

- The students were introduced to AI, ML and DL.
- The students were trained in Python Language.
- The students had a hands-on experience on the exploration of concepts.

d) Activity / Event Photograph



Student Coordinator

Staff Coordinator

HOD



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Brief Activity/Event Report

- Name of the Activity/Event** : CodeSprint – Coding Competition Organised By CSI Chapter Of FCRIT Vashi
- Activity/Event Venue & Date** : Labs AX 504, AX 508, & AX 510 , New Building , 27/01/2020
- Nature of Participants** : Students of FCRIT , Vashi
- Number of Participants** : 49
- Student Coordinator** : Mr. Romik Amipara
- Staff Coordinator** : Ms. Shweta Tripathi
- Brief Summary of the Activity/Event:**

a) Objectives

- Providing the students with an insight into the professional coding environment.
- Fostering Scientific Temperament in students.

b) Technical Description

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 its first ever coding contest CodeSprint on HackerRank Platform. The students were exhorted to participate in the contest irrespective of their branches/semesters.

The students participated in copious numbers and their competitive intent to outdo their peers was commendable.

c) Outcomes

- The students were exposed to the professional coding environment like setup.
- The contest provided a platform for the students to showcase their coding and analytical prowess with a competitive spirit.



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d) Activity / Event Photograph



Student Coordinator

Staff Coordinator

HOD



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Brief Activity/Event Report

- 1. Name of the Activity/Event :** CypherHack conducted by CSI in association with Cyber Cell and the Computer Department.
- 2. Activity/Event Venue & Date :** Second floor - Seminar hall , New Building , 29/02/2020
- 3. Nature of Participants :** Students of FCRI , Vashi and outside.
- 4. Number of Participants :** 52 (Registered-11 teams Attended-8 teams)
- 5. Student Coordinator :** Ms. Soumya Haridas
- 6. Staff Coordinator :** Ms. Shweta Tripathi
- 7. Brief Summary of the Event :**

a) Objectives :

- Provide an overview of Cybersecurity.
- To familiarize with the anti-virus, anti-spam and anti-spyware tools currently available.
- To generate high-value actionable business ideas and produce concepts.
- To provide a basic knowledge of ethical hacking.
- To boost the innovation culture and establish the idea-sharing, effective collaboration and creativeness driven by enthusiasm towards a shared goal.

b) **Technical Description** : The entire event was divided into various sub-events as follows :

● **INAUGURATION CEREMONY**

A successful cybersecurity approach has multiple layers of protection spread across the computers, networks, programs, or data that one intends to keep safe.

This session primarily focused on familiarizing the students with the nitty gritty of the same. The dignitaries for the event DSP Sangeeta Shinde Alphonso, Mr. Venkata Satish, Mr. Gigi Joseph, Fr. Almeida, Dr. S. M. Khot (Principal at FCRIIT) and Dr. Lata Raghya (HOD, Computer Engineering) addressed the congregation on the same.

● HOD - Dr. Lata Raghya addressed the audience by sharing the insights of all the previous hackathons organised in the college and further added the importance of organising such events for the student community.

● Dr. S. M. Khot spoke about the achievements of FCRIIT-ians and how the students are excelling not just in academics but also in various other domains like sports, cultural, and various technical competitions.

● Mr. Venkata Satish, Director Security at Rediff.com talked about the rising crimes in cyberspace and all possible alternatives that will provide awareness to all the citizens of our country in order to ensure that the rate of these crimes go down.

● Mr. Gigi Joseph, CISO at BARC verbalized on how to stay safe in cyberspace - by not using apps banned by the Government of India and apps that track our location. Various real-life instances were narrated by him during this session to make it more interactive.

● DSP Sangeeta Shinde educated us on various IPC sections and their punishments. More to do with the case studies and what happened to the offenders at the end. For example, she talked about the Adnan Patrawala Cyber Murder case.

● Vote of Thanks was presented by Mrs. Shweta Tripathi.

● **HACKATHON**

The Hackathon was divided into two parts which included the idea submission part and the coding part. The panel for the Idea Submission phase included Mr. Venkata Satish (Director-Security at Rediff.com) and Ms. Komal Vora (VP-Mizuho Bank).

The participants presented their ideas to the judges and they received various inputs from them in return followed by allotment of 6-8 hours solely for resolving the problem statements chosen by them.

During the coding session, four mentors from Cyware assisted and mentored each and every group and tried to solve all the issues which the participants were facing and they also guided them by helping them choose the perfect direction to make their solutions business-oriented.

After the coding session, the final presentation was judged by two different panels namely- Panel A : Mr. Venkata Satish and Ms. M. Kiruthika and Panel B : Ms. Komal Vora and Dr. Lata Ragha. Each panel focussed on analyzing the product made by the teams by evaluating them based on the different judging parameters and thereby choosing the winning teams.

● VALEDICTORY

The valedictory session commenced with the insights of the entire day and the judges thereby shared their experience after witnessing the blooming skills of CyberSecurity in the participants throughout the day. This was followed by the lucky draw for Alexa Echo-Dot which was sponsored by CyberFrat. Mr. Abhishek Gupta from Team What's In A Name was announced as the Lucky Draw Winner.

Finally, the winners were announced and Team POSEDION from FCRIT, Vashi claimed the Runners-Up position and were felicitated by a cash prize of Rs.10,000 and Team BLACK FALCON from Rizvi College of Engineering bagged the First position with a cash prize of Rs.15,000. The event was concluded after the Vote of Thanks by event coordinator Ms.Soumya Haridas.

c) Event Photograph :







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Brief Activity/Event Report

1. **Name of the Activity/Event** : Technical Paper Presentation conducted by CSI – Computer Department
2. **Activity/Event Venue & Date** : Conducted online using Cisco Webex Meetings on 13/05/2020
3. **Nature of Participants** : Students of FCRI, Vashi and outside
4. **Number of Participants** : 21 (Registered-14 teams, Attended- 8 teams)
5. **Student Coordinator** : Ms. Linda John
6. **Staff Coordinator** : Ms. Shweta Tripathi

7. Brief Summary of the Activity/Event :

a) Objectives

- Exposure with Academic Professionals to groom a career path.
- Unifying Technical Reviews with the Recent Technologies.
- Fostering Scientific Temperament in students.

b) Technical Description

CSI, Department of Computer Engineering, Fr. C. Rodrigues Institute of Technology, Vashi conducted a Technical Paper Presentation Competition on 13/05/2020 via Cisco Webex Meetings. A total of 8 teams participated in the event. Participants had submitted pre-recorded presentations and their technical papers. A live Question & Answer Session was held with the judges. This was carried out in two parallel sessions. The judges for the event were:

Judges Session 1:

1. Dr. Sushil Thale (Professor in Department of Electrical Engineering and Dean (R&D) at Fr. C. Rodrigues Institute of Technology)
2. Dr. Anjali Yeole (Assistant Professor in Department of Computer Engineering, Vivekanand Education Society's Institute of Technology)



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Judges Session 2:

1. Dr. Irfan Siddavatam (Head, Department of IT, KJSCE)
2. Ms. Megha Kolhekar (Associate Professor in Department of EXTC at Fr. C. Rodrigues Institute of Technology)

The faculty coordinators for the event were Ms. Rakhi Kalantri and Ms. Shagufta Rajguru, both from the Computer Department.

A valedictory function was organised on Webex to announce the winners. The judges, Ms. Shweta Tripathi, CSI Convener, faculty coordinators, participants and organizers were part of this function. The Winners and Runners-up are as following:

Winners:

Team ID: TPP04

Members: Annie Benjamin, Maitreyee Likhite, Pradhumn Kanase

College: Fr. C. Rodrigues Institute of Technology

Domain: Machine Learning

Topic: Spatial Analysis of 3D space using 2D images

Runners-up:

TPP13

Members: Mahesh Mahajan, Lovkesh Sharma, Rajeshwari Bajre

College: Pillai College of Engineering

Domain: Deep Learning

Topic: Computer Vision Based Campus Surveillance

c) Outcomes

- The students were presented an opportunity to learn in detail about a core subject
- The students were provided a platform to develop effective presentation skills.



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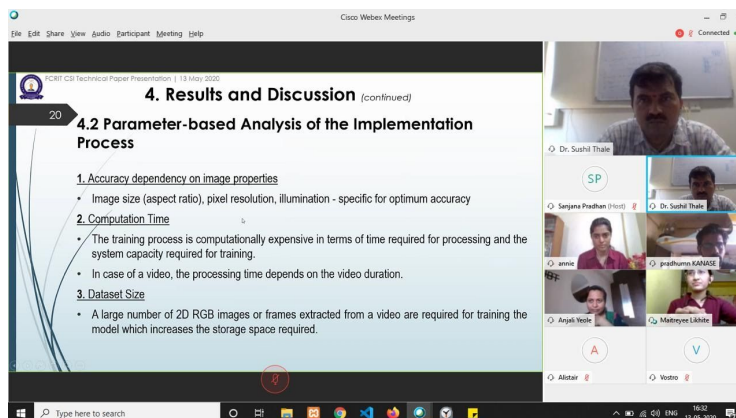
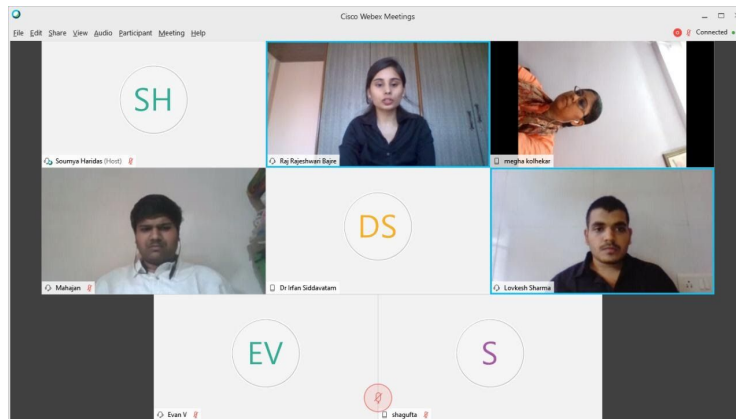
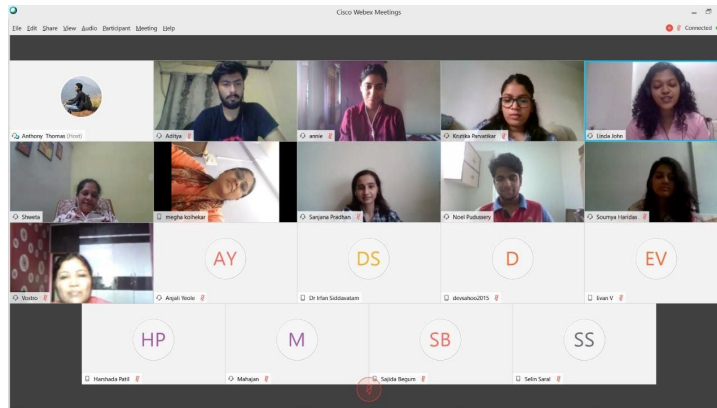
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d) Activity / Event Photograph



Student Coordinator

Staff Coordinator

HOD



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State Level Project Competition Technova



Brief Activity/Event Report

- 1. Name of the Activity/Event :** Technova conducted by CSI in association with Computer Department.
- 2. Activity/Event Venue & Date :** MS Teams (online platform) 18/07/2020
- 3. Nature of Participants :** Students of FCRIT , Vashi
- 4. Number of Participants :** Registered-11 teams Attended-8teams
- 5. Student Coordinator :** Session 1- Afrin Dange and Jennifer James
Session 2- Anuj Kotarkar, Zaid Warekar, Noel
- 6. Staff Coordinator :** Ms. Shweta Tripathi
- 7. Brief Summary of the Event :**
 - a) Objectives :**
 - Provide an experience and exposure in writing technical papers.
 - To generate high-value actionable business ideas and produce concepts.



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● To boost the innovation culture and establish the idea-sharing, effective collaboration and creativeness driven by enthusiasm towards a shared goal.

b) **Technical Description** : The entire event was divided into various sub-events as follows :

● **TECHNOVA PAPER PRESENTATION**

The Paper Presentation was divided into two sessions. The panel for the first session was Mr. Rajesh Pradhan and Ms. Sharmila Sengupta, the panel for the second session was Mr. Vishram Kunte and Ms. Komal Vora.

The participants presented their ideas to the judges and they received various inputs from them in return followed by a Q&A session, wherein the judges asked the participants various questions regarding their paper. The judges also guided each and every group by helping them choose the perfect direction to make their solutions business-oriented.

After the two sessions, each panel focussed on analyzing the product made by the teams by evaluating them based on the different judging parameters and thereby choosing the winning teams.

● **VALEDICTORY**

The valedictory session commenced with the insights of the entire day and the judges thereby shared their experience after witnessing the blooming skills of the participants throughout the day. Finally, the winners were announced and Team AGENT23 from FCRIT, Vashi claimed the FIRST position and the RUNNER-UP position was shared by two teams, team AN INDIVISUAL and team CYBREAKERS. The event was concluded after the Vote of Thanks by Angela Ramesh, Secretary of the CSI committee(2020-21)

c) **Event Photograph** :



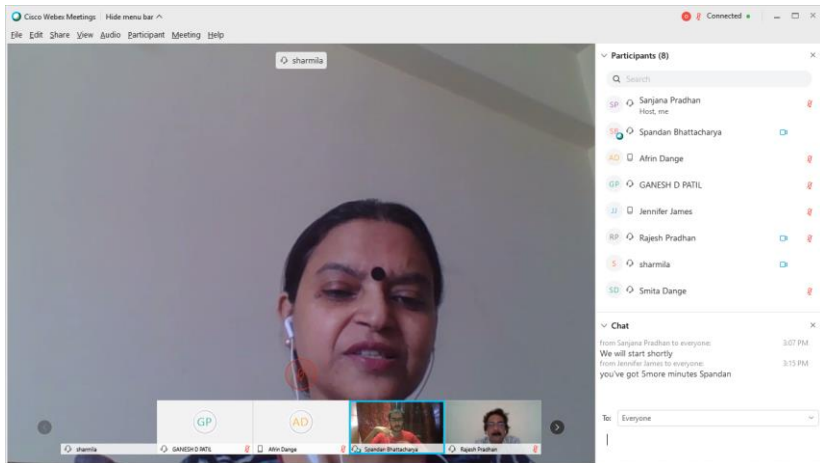
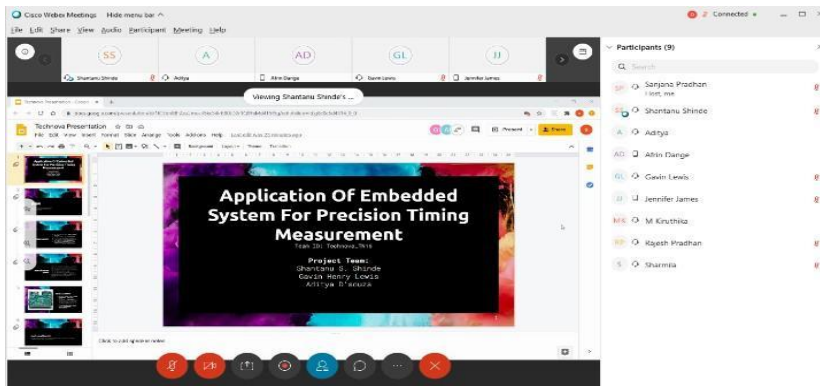
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