

Criterion 3 - Research, Innovations and Extension

3.2 Innovation Ecosystem

Support File for Cri-3.2.1: Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

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Summary Sheet



ST. FRANCIS INSTITUTE OF TECHNOLOGY (ENGINEERING COLLEGE)

An Autonomous Roman Catholic Christian Minority Educational Institute

Approved by AICTE & Govt. of Maharashtra with permanent Affiliation to University of Mumbai

P.B. No. 8456, Mount Painsur, S.V.P. Road, Borivli (West), Mumbai - 400 103.
Tel. : 91673 70622 / 91673 70632 / 91673 70637 E-mail : sfedu@sfit.ac.in Website : www.sfit.ac.in

Ref:

Date:

Summary sheet for Criteria 3.2.1

Sr.no	Document Name	No.of Events/Groups	No.of Students Participated
1	Institution Innovation Council (IIC) - SFIT	23	870
2	Robocon and E-yantra	2	24
3	Team Tejas and Gatee	2	62


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Institution Innovation Council (IIC) – SFIT



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EVENT REPORT

Design thinking, Critical thinkin and Innovation design - Seminar

A Seminar Conducted by IIC-SFIT and the Department of Electrical Engineering

Date: March 1, 2024

Time: 9.45 a.m. - 11:30 a.m.

Venue: Online (Google Meet)

Resource person: Dr. Saurabh Mehta

Recorded Link: <https://youtube.com/live/zq9m5aOSwHw?feature=share>

Nature of the Event:

A workshop on Design thinking, Critical thinking and innovation design was conducted by the Electrical Engineering Student Association (EESA) and the Department of Electrical Engineering on 1st March 2024. The speaker for the day was Dr. Saurabh Mehta who is a Chief Academic Officer at Vidyalankar Institute of Technology, Mumbai. The medium for this workshop was Google Meet, the workshop started at 9:45 a.m.

A brief introduction was given by Dr. Saurabh Mehta where he covered the following points-

- What is Design Thinking?
- How Design Thinking and Critical Thinking affects the quality of the product?

Important Takeaways:

Following the introduction Dr. Saurabh started explaining us the usage of Design and Critical thinking, where he covered following points –

- Aspects of Critical Thinking for complete development of products.
- How Design Thinking helps engineers to develop efficient and sustainable products.
- Thinking from the view of customer.
- Combining Innovation with Emotions.
- How innovation can achieve greater success with usage of Design Thinking.

Concluding Remarks:

As the event drew to a close, Dr. Saurabh Mehta extended a heartfelt token of appreciation to the Heads of Departments (HODs), Institutions Innovation Cell (IIC), and the Electrical Department for their unwavering support and encouragement. Dr. Saurabh Mehta ended the workshop with a Q/A session where he cleared the doubt and answered the queries of the students regarding the topic. The seminar ended with everyone gaining knowledge regarding Design thinking, Critical thinking and Innovation design.

Poster :


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IIC- SFIT
in collaboration with
EESA SFIT is delighted to invite you to a workshop on

DESIGN THINKING, CRITICAL THINKING, AND INNOVATION DESIGN



LIVE ON:
 YouTube

1st March
2024

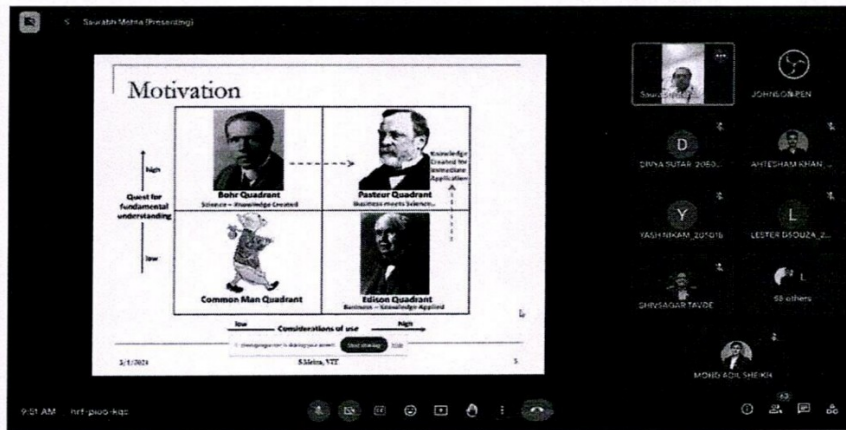
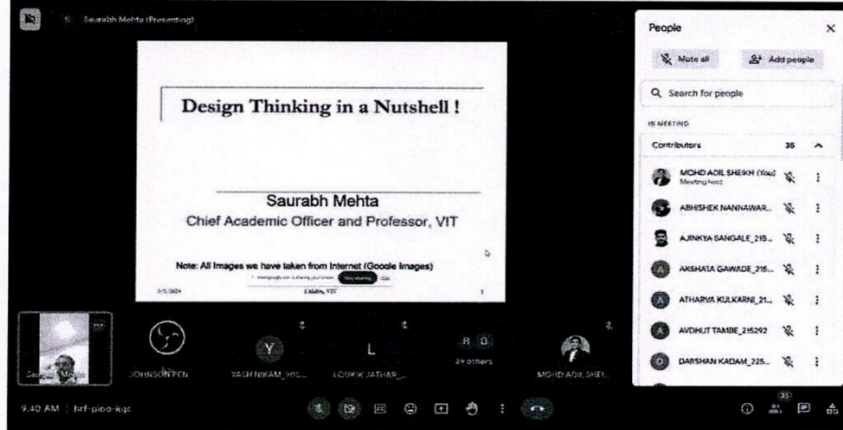
09:45 a.m.
Onwards

DR. SAURABH MEHTA
Chief Academic Officer
Vidyalankar Institute of Technology, Mumbai

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Dr. Adil Sheikh
Asst. Professor

[Signature]
Dr. Ravindra Garmode
President, IIC SFIT

Ms. Megha Fernandes
HOD, EE

[Signature]
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EVENT REPORT

NATIONAL SCIENCE DAY 2024

Conducted by IIC, SFIT

Date: February 28, 2024

Time: 9:00AM-12:00PM

Venue: SFIT CAMPUS

Nature of the event:

National Science Day serves as an annual celebration of scientific inquiry, discovery, and innovation. While it holds significance for people of all ages, its impact on children is particularly profound. Science Day provides a platform for children to explore the wonders of science firsthand, fostering curiosity, critical thinking, and a passion for learning. This year IIC-SFIT invited the students of ICSE School to nurture their knowledge and gain the practical applications of various science projects by different college committees.




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TEAM GATEE

Team GATEE is SFIT's official GO KARTING committee. Students interacted with the team and got to learn various aspects of motor cars. One of the committee executives showcase the driving skills to the students. There were various questions asked by the students. Some of them are:




Q-1) How much does it cost to manufacture the vehicle.

Q-2) What type of engine is used?

Q-3) How much distance the vehicle can cover in 1ltr of fuel?

MECHANICAL LAB & LIBRARY


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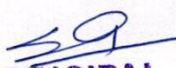
TEAM RAW

The Robotics and Automation Wing is SFIT's official robotics team. They have made various successful projects and have participated in various inter-college level competitions. Introducing robots to young minds is paramount for their development and education. By interacting with robots, students not only gain valuable skills and knowledge but also cultivate a passion for lifelong learning and discovery.

Few asked questions were:

Q-1) What are the essential components used?

Q-2) How much power it can generate?


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TEAM TEJAS

This is the official avionics committee. They work on enhancing the airplanes model and compete in various inter-college competitions. Through participation in this committee, students gain hands-on experience in engineering, design, and manufacturing, bridging the gap between theoretical knowledge and practical application. Many students are excited to join this committee in their future college life.


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Institute Innovation Council Team :-

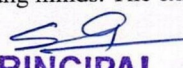
Advisors: Greeshma Hedvikar, Jessica Allen Gonsalves, Tejas Vaidya, Parth Rambhia, Vedant Pednekar, Pratham Muchhala, Rushikesh Borakhede, Neel Mistry, Alisha Miranda

Heads: Aayush Shenavi, Jaskaran Singh, Eva Zacharia, Pratham Shinde, Om Kalekar, Yash Patel, Poorna Dani, Makarand Samant, Shrirang Nikumbh, Anushka Churi

E-Leaders: Aaron Samuel, Anushree Racharla, Adrian Chitlapully, Atharva Sankhe, Bianca Noronha, Pournima Rode, Suhani Sharma, Rissa Lopes, Tanaya Naidu, Aries Dmello, Jasmeeta Sardesai, Yogesh Mewada, Scania Dsilva, Royston Bansod, Celcia Gonsalves, Shashikant Yadav, Aman Roy, Joel Kathi, Samarth Jain, Uday Singh, Janhvi Bhandarkar, Melwin Das, Shreya Kodanch, Anish Kalbhor, Bhushan, Jonas Kamthankar, Prathamesh Mahadik

Summary of the event:

The National Science Day exhibition held at our college by IIC for school students was a vibrant and enriching event aimed at fostering scientific curiosity and learning among young minds. The exhibition


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PHOTOGRAPH SESSION WITH DIRECTOR, VICE-DIRECTOR AND VICE PRINCIPAL.


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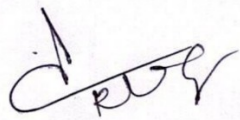
showcased a diverse array of interactive exhibits and demonstrations covering various scientific disciplines, including physics and technology. Students had the opportunity to engage in hands-on activities, explore scientific principles, and witness fascinating experiments firsthand. From interactive robotics displays to captivating motor cars and intriguing airplanes, the exhibition offered a captivating glimpse into the wonders of science. Knowledgeable volunteers and educators were on hand to guide students through the exhibits, answer questions, and inspire a passion for scientific inquiry. The event not only provided students with valuable educational experiences but also served as a platform for promoting STEM education and encouraging future careers in science and technology. Overall, the National Science Day exhibition at our college was a resounding success, igniting curiosity, sparking creativity, and inspiring the next generation of scientists and innovators.

Thank You

Report prepared by-

Mr. Aman Roy
Executive, IIC SFIT


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Dr. Ravindra K. Garmode
- President -
(IIC - SFIT)



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EVENT REPORT

Motorsports - Seminar

A Seminar Conducted by IIC-SFIT and the Department of Mechanical Engineering

Date: February 7, 2024

Time: 3.00 p.m. - 5:00 p.m.

Venue: Auditorium

Resource person: Mr. Omkar

Recorded Link:

Nature of the Event:

At the event, attendees were captivated by Mr. Omkar Rane's narrative, which began with his humble origins and a lack of familiarity with motorsport. Despite this, he harbored a steadfast dream: to one day construct the fastest car imaginable. He emphasized the pivotal role of determination and ambition, underscoring how these qualities formed the foundation of his journey into motorsport.

Introducing LIME (Launchpad for Indian Motorsport Engineers), Mr. Omkar showcased a groundbreaking program designed to cultivate and support aspiring engineers interested in the motorsport industry. LIME stood as a beacon of opportunity, offering a structured pathway for students to delve into the complexities of automotive engineering and motorsport technology.

Central to LIME were its five guiding principles, each carefully curated to provide participants with a well-rounded education and hands-on experience. These principles encompassed essential areas such as driver dynamics, CAD design, F1 aerodynamics, and CAD workshops, ensuring that students received comprehensive training across multiple facets of motorsport engineering.

Throughout the presentation, Mr. Omkar elucidated the significance of each principle, highlighting how they collectively contributed to the development of a well-rounded skill set essential for success in the field. From understanding the nuances of vehicle dynamics to mastering the intricacies of aerodynamics, LIME aimed to equip students with the knowledge and expertise needed to excel in the competitive world of motorsport engineering.


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Report prepared by- Tanaya Naidu (Publicity Executive IIC-SFIT)



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Important Takeaways:

1. **Affordable Global Exposure:** LIME offers affordable global exposure to aspiring engineers through its comprehensive program, guided by Mr. Omkar Rane's personal journey into motorsport engineering. By providing hands-on training in essential areas like driver dynamics and F1 aerodynamics, LIME equips students with the skills needed to compete in the international motorsport industry, all while emphasizing the power of passion, determination, and community support.
2. **Industry-Certified Learning:** LIME facilitates industry-certified learning, offering hands-on training in driver dynamics, CAD design, and F1 aerodynamics. Participants acquire essential skills validated by industry standards, preparing them for thriving careers in motorsport engineering with global exposure and community support. This prepares them with practical skills and knowledge, highly valued in the job market.
3. **Hands-On Experience:** Students immersed themselves in a comprehensive learning experience alongside Team UMA and their project car, which served as a practical application of the skills acquired during hands-on training. This project vehicle not only provided participants with the opportunity to apply their newfound expertise but also embodied UMA's vision of creating the ultimate high-performance vehicle: the fastest car imaginable.
4. **Personalized Success Path:** Each student receives personalized guidance and support to tailor their academic and career journey according to their interests, strengths, and goals. This includes mentorship from industry experts and budding engineers along with guidance into the world of motorsports, and access to resources that empower students to chart their own path to success in the motorsports industry.

Concluding Remarks:

As the event drew to a close, Mr. Omkar extended a heartfelt token of appreciation to the Heads of Departments (HODs), Institutions Innovation Cell (IIC), and the Mechanical Department for their unwavering support and encouragement. Their collective efforts were instrumental in bringing LIME to fruition, underscoring the importance of collaboration and community in fostering innovation and growth within the realm of motorsport engineering.

In conclusion, Mr Omkar Rane's journey from a novice enthusiast to the founder of United Motorsport Academy exemplifies the power of passion and determination. Through LIME, he has not only created a platform for aspiring engineers to pursue their dreams in motorsport but has also emphasized the importance of collaboration and community support in driving innovation and growth. With its comprehensive curriculum and hands-on approach, LIME is poised to shape the next generation of motorsport engineers, equipping them with the skills and expertise needed to thrive in this dynamic industry.


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Poster :

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UNITED MOTORSPORTS ACADEMY

Motorsports seminar

Organized by Department of Mechanical Engineering
Powered by the very best in the industry
Speaker: **Reputed speaker from specialized area**

SFIT Auditorium
 7th February 2024
 3:00 pm

- Affordable global exposure
- Industry-certified learning
- Hands-on experience
- Personalized success path

And many more (Given in shared PDF)

KNOW MORE
www.unitedmotorsportsacademy.com

Report prepared by- Tanaya Naidu (Publicity Executive IIC-SFIT)

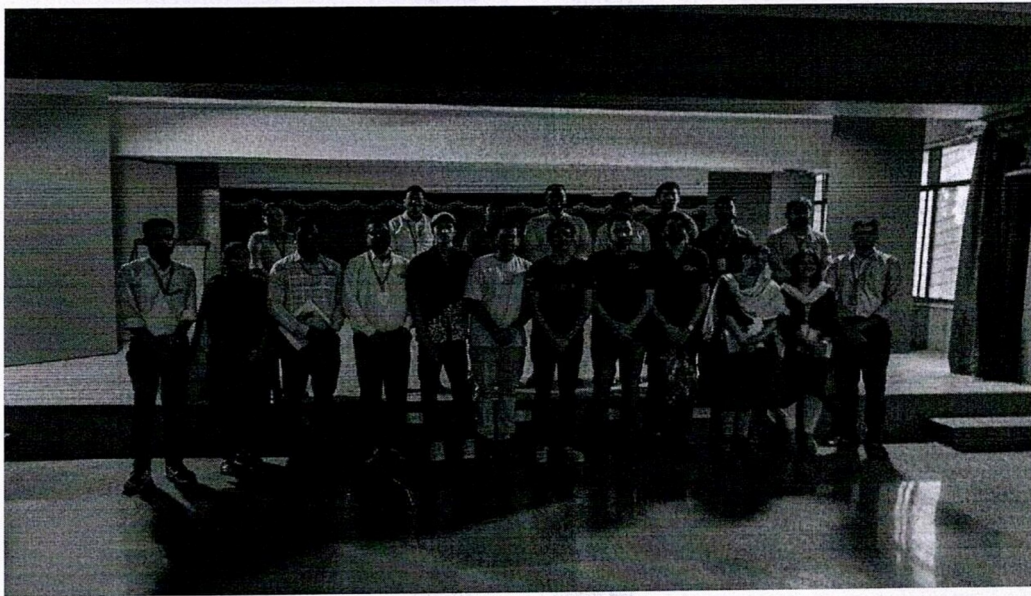
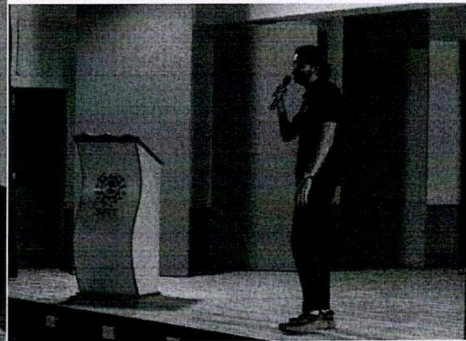
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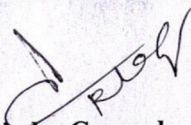
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Yunus Dalal
Asst. Professor


Dr. Ravindra Garmode
President, IIC SFIT

Mr. Sunil Pansare
HOD, DME


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Report prepared by- Tanaya Naidu (Publicity Executive IIC-SFIT)



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EVENT REPORT

Entrepreneurship Day

Activity Conducted by IIC-SFIT

Venue 1:

Date: February 26, 2024

Time: 3.00 PM – 5.00 PM

Venue: Auditorium

Recorded Link:

Nature of Event:

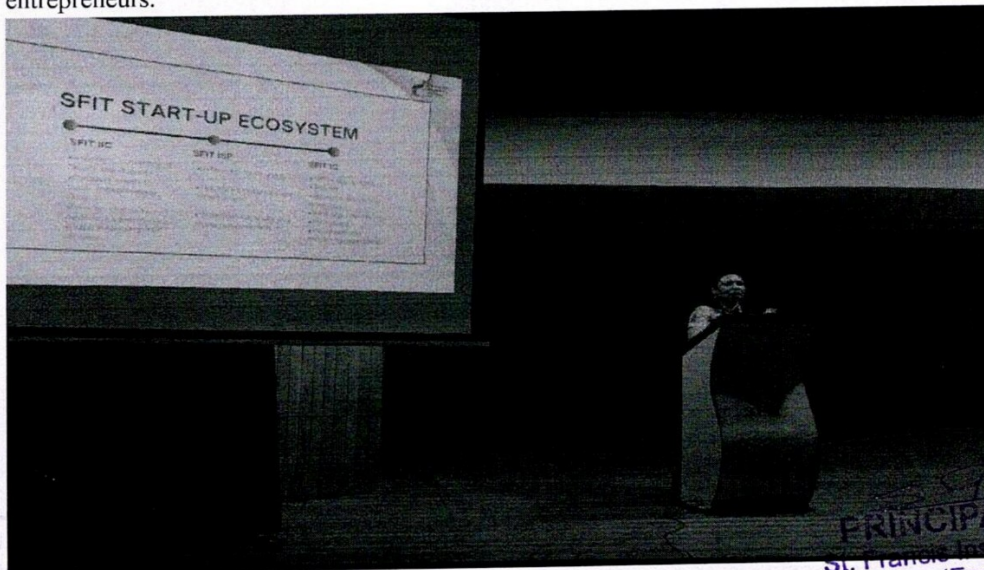
Entrepreneurship Day, held from 3:00 PM to 5:00 PM, it commenced with an enlightening opening segment hosted by Suhani Sharma. The event encapsulated the essence of innovation, entrepreneurship, and the spirit of young minds eager to explore creativity and technology.

Opening Ceremony

The event began at 3:20 PM, with all attendees standing for the prayer song, embodying the tradition that all auspicious beginnings are marked by prayer. Suhani Sharma, the host, introduced the Institute Innovation Council (IIC) and welcomed Mrs. Bidisha Roy to provide deeper insights into the committee's objectives and offerings.

Keynote Address by Mrs. Bidisha Roy

Mrs. Bidisha Roy emphasized the critical importance of entrepreneurship, innovation, and the transformation of ideas into reality. She highlighted the array of opportunities provided by the IIC, including seminars, workshops, games, and support for startups. Mrs. Roy encouraged student participation in initiatives like Prayas and Pragati, illustrating how the IIC fosters infrastructure development, technological advancements, and mentorship for budding entrepreneurs.



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Following Mrs. Bidisha mams inspiring speech, the host expressed gratitude for her invaluable insights into the entrepreneurial landscape and the pivotal role of the IIC.

Insightful Session by Mr. Jaskaran Singh

The event progressed with Mr. Jaskaran Singh shedding light on the diverse events organized by the IIC, such as Startup Saturday, Unnati, TEDx, and Pragati, further demonstrating the committee's commitment to nurturing innovation and entrepreneurship among students.

Interactive Games Segment

The excitement escalated as the event transitioned to an interactive games segment. Participants were instructed to form groups of 10 and prepare for a creative showdown. Team leaders were briefed on the game rules, and teams were given 10 minutes to strategize.

Team Presentations

The presentations kicked off at 4:00 PM, showcasing a wide array of products through inventive advertisements:

1. The Toothbrush Ad by the first team highlighted an electric toothbrush, emphasizing its features and benefits.
2. Shoe Ad by Kickz showcased customization options, features, and the latest trends.
3. **Earphones by Tunex introduced EEG-equipped earphones that adjust music flow based on brainwaves, standing out as the main unique selling point.**
4. Watch by Move featured functionalities like find-your-phone and calling for safety.
5. T-shirts by Urban Attire discussed the benefits of their material over conventional ones.
6. AC Presentation offered a rapid overview of an air conditioner's features.
7. Phone Case by CoverUp detailed the multifaceted benefits and features of their product.
8. Sunglasses by CA Glasses enacted a drama emphasizing sun protection and product features.
9. Pen by Brazer Pen performed a smart demonstration involving an experiment to highlight the pen's reliability.

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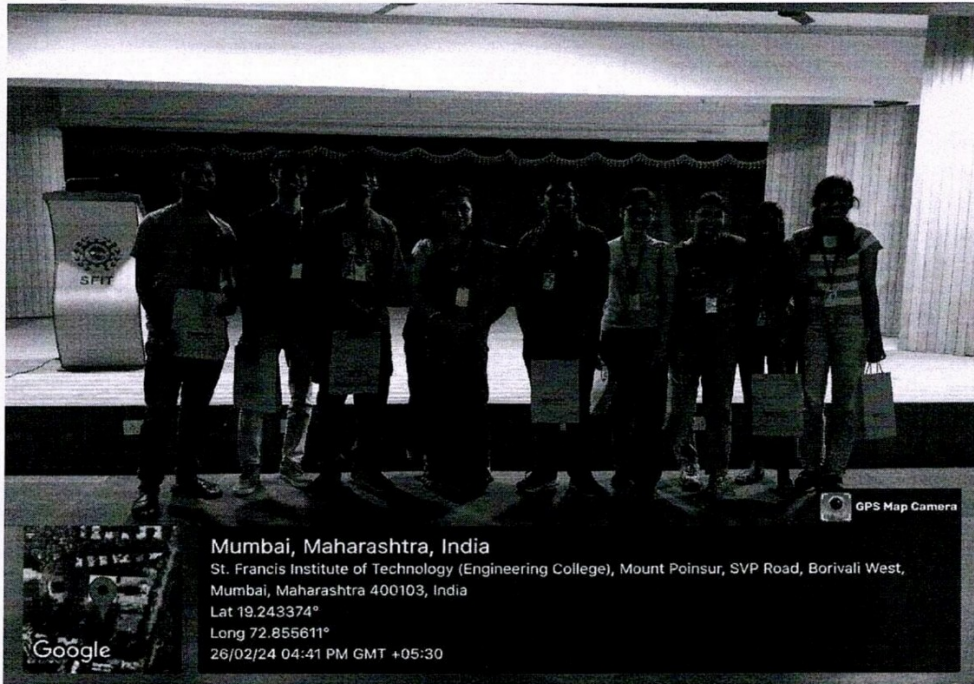


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Judging and Awards

The judges, after careful deliberation, declared the team presenting the EEG-equipped earphones by Tunex as the winners. Mrs. Bidisha Roy presented goodie bags to the winning team, marking a celebratory end to a day filled with creativity, innovation, and entrepreneurial spirit.



Mumbai, Maharashtra, India

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Mumbai, Maharashtra 400103, India

Lat 19.243374°

Long 72.855611°

26/02/24 04:41 PM GMT +05:30

Conclusion

Entrepreneurship Day was a resounding success, embodying the essence of innovation and providing a platform for students to showcase their creativity and entrepreneurial skills. The event not only celebrated budding entrepreneurs but also reinforced the importance of support structures like the IIC in fostering an ecosystem conducive to innovation and growth.

Report prepared by-

Mr. Adrian Anthony Publicity Executive, IIC SFIT

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Venue 2:

Date: February 26, 2024

Time: 3:00 PM - 5:00 PM

Venue: TPO, St. Francis Institute of Technology

Introduction:

The Entrepreneurship Day event at St. Francis Institute of Technology, aimed at fostering an entrepreneurial spirit, commenced with Tanaya extending a warm welcome to all attendees on behalf of the Innovation and Incubation Cell (IIC), followed by a moment of prayer to emphasize the importance of spiritual purification as a foundational element for innovation and entrepreneurship.

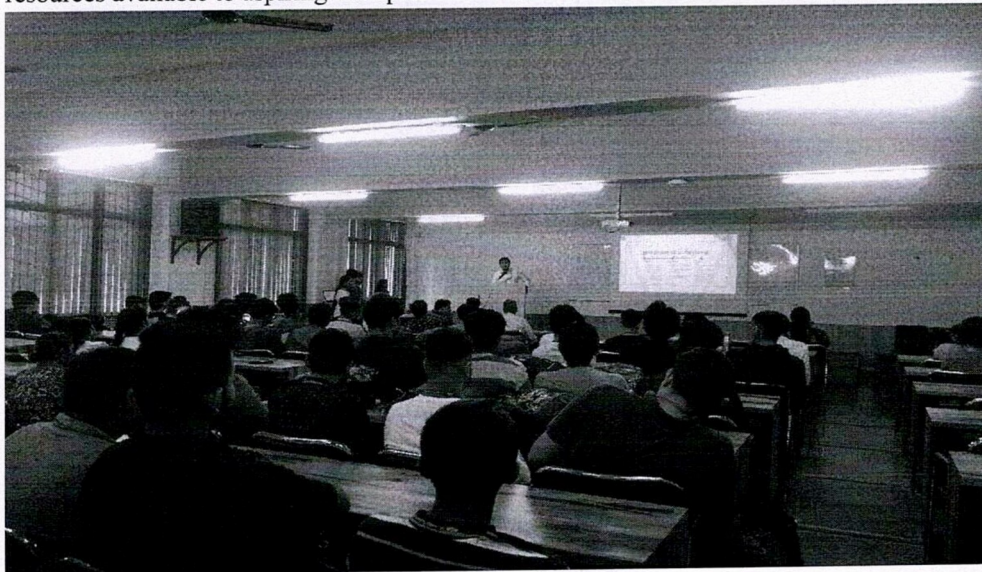
Highlights of the Event:


Introduction to IIC:

An overview of the Innovation and Incubation Cell (IIC) at SFIT was presented, outlining its mission to nurture visionary students into technological entrepreneurs and innovative leaders.

Keynote Address:

Dr. Adil Sheikh delivered an insightful keynote address on the Startup Ecosystem at St. Francis Institute of Technology, providing valuable information about opportunities and resources available to aspiring entrepreneurs within the institution.



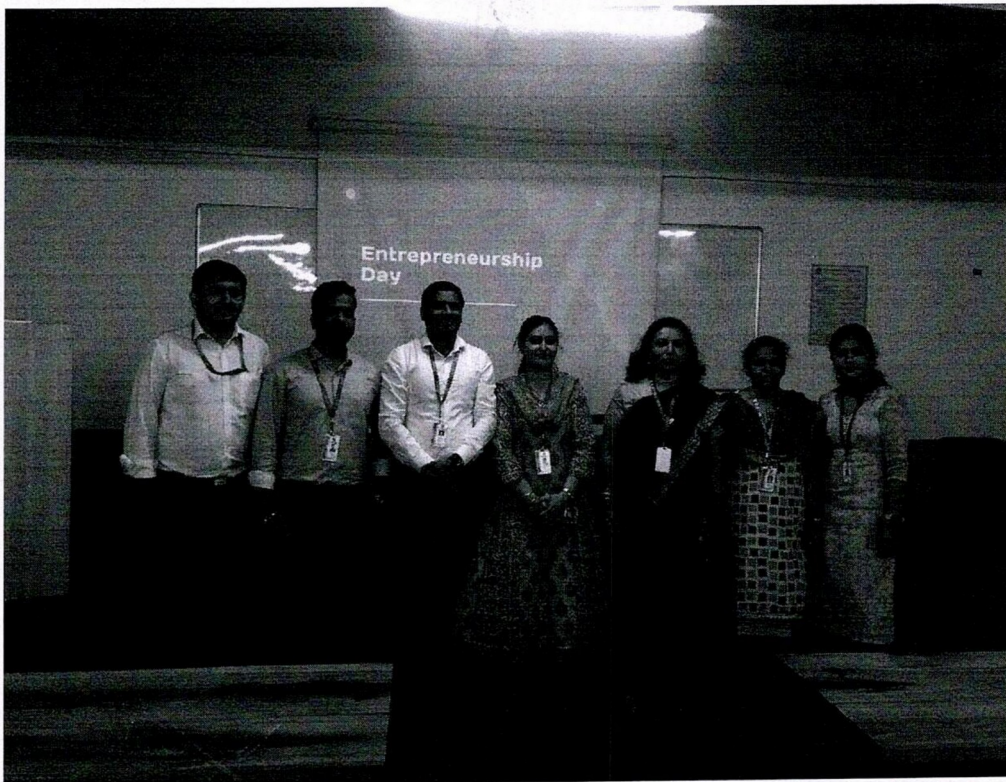
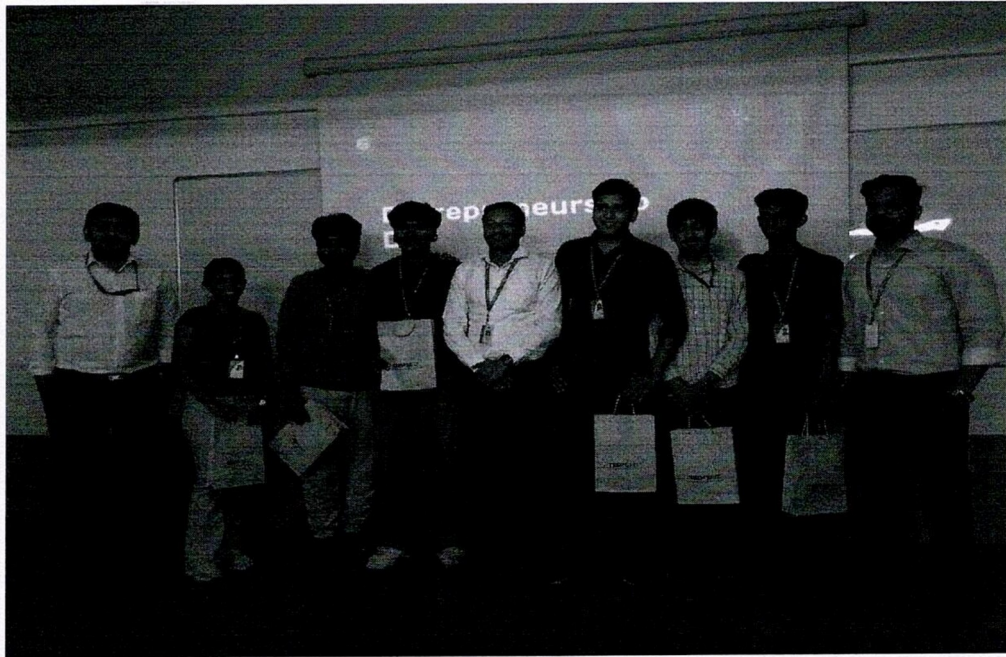

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Overall Coordinators' Address:

The overall coordinators shared insights into upcoming IIC events, inspiring attendees to actively participate in fostering the entrepreneurial spirit within the institute.

Interactive Games:

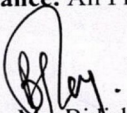
A series of interactive games were organized, allowing students to showcase their creativity and teamwork skills. Ten student groups passionately pitched their business ideas, with judges including Dr. Ravindra Garmode, Mr. Saurabh Vichare, and Dr Adil Sheikh. The winning team, from the Mechanical Department, presented a compelling business idea related to the biking industry.


Conclusion:

The event concluded with expressions of gratitude to all participants for their contributions towards its success. Attendees were encouraged to carry forward the spirit of innovation and entrepreneurship, striving to make a positive impact on the world.

Report Prepared by: Bianca Noronha
Publicity Executive, IIC-SFIT

Attendance: All First Year Engineering Students (AY 2023-24)


Ms. Bidisha Roy
Convener, IIC- SFIT


Dr. Ravindra Garmode
President, IIC - SFIT

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EVENT REPORT

Field Visit

Activity Conducted by IIC-SFIT and Department of Basic Science and Humanities

Venue : Nashik

Date: 1st and 2nd March, 2024

Time: Two days

Nature of Event:

The First Year students Industrial Visit to Nashik was on 1st and 2nd March 2024 i.e. Friday and Saturday respectively. There were 295 students from all first year classes who were accompanied by 16 faculty members, namely Dr. C. Hariprasad, Ms. Grishalda D'souza, Ms. Rekha Ajikumar, Ms. Deepa Panakkal, Mr. Faiz Ansari, Ms. Astrid D'souza, Mr. Sainath Ghosalkar, Ms. Asma Hazir, Ms. Nargis Khan, Mr. Bysani Malakondiah, Mr. Nilesh Gaddapawar, Mr. Ashok Sapale, Mr. Suresh Lad, Mr. D Khalap, Mr. Nilesh Dadikar and Ms. Kadambari Kapate. To add to this, there were also tour guides from '**Key Explorers**' who accompanied us for the IV. The meeting point was at St. Francis Institute of Technology at 6:00 am, after which all 6 buses departed for the industrial visits.

Our first stop was at in Vasind Gaon where a buffet breakfast was served after which we departed towards our industries.

Sr. No.	Name of the Industries
1.	Ambar Auto Engineers Pvt, Ltd
2.	Bharat Milling Industries
3.	Copper Track Industries
4.	ESDS Software Solution Ltd
5.	Nashik Engineering Cluster

Each student visited two industries as per their branch and grabbed the knowledge, exposure and practical knowledge on industry practices. The industry employees made their conversation by presenting a conference presentation of the company details and various services and products provided. Students submitted IV report as a part of Professional Communication Ethics I submission.


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Nashik Division, Maharashtra, India

3-Sai Sangam, Shree krishna nagar, Ambad, MIDC Ambad,
Nashik, Maharashtra 422010, India

Long 73.738139°

Lat 19.966621°

01/3/2024 12:05 PM

GPS Map Camera

Google



Nashik, Maharashtra, India

Plot No. B- 24 & 25, NICE Industrial Area Satpur, NICE Area, MIDC, Satpur Colony, Nashik,
Maharashtra 422007, India

Lat 19.996077°

Long 73.747243°

01/03/24 12:09 PM GMT +05:30

GPS Map Camera

Google

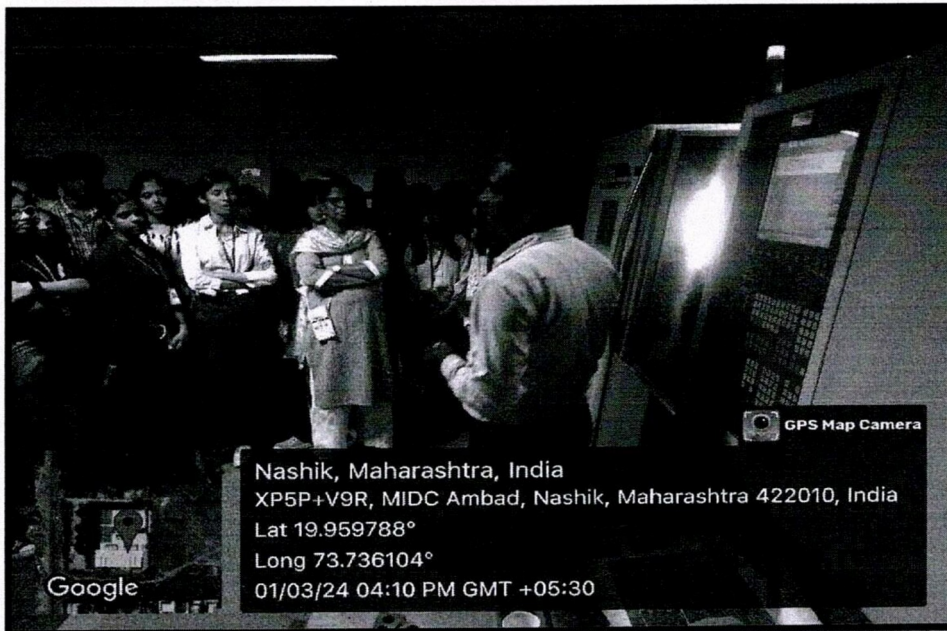
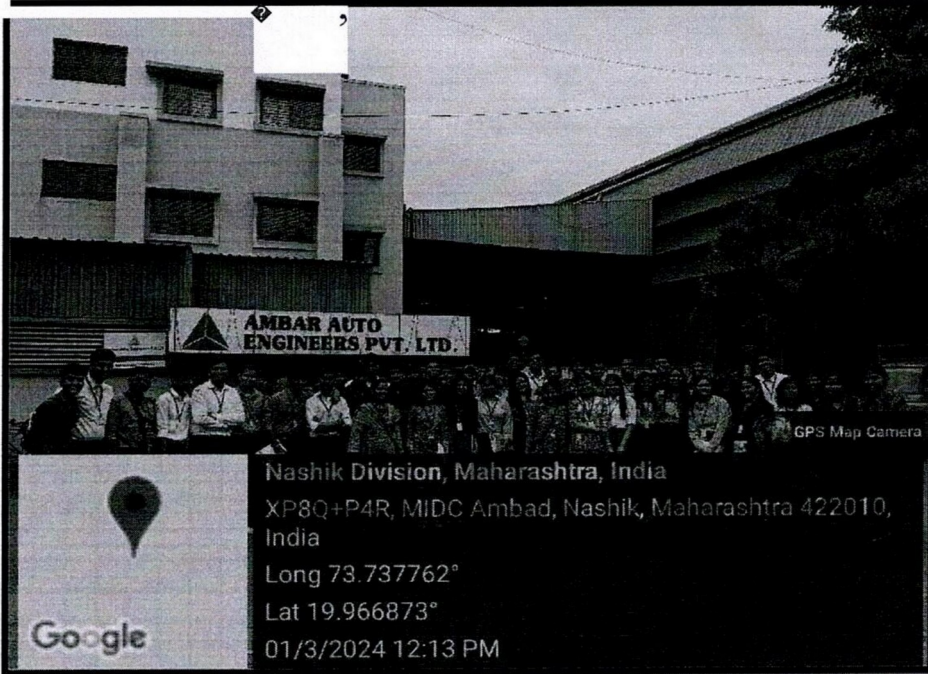
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After the enjoyment at Manas Resort, it was time to head back to Mumbai. All buses reached SFIT by 8pm.

Report prepared by-

Ms. Nargis Khan

Dr. Ravindra Garmode
President, IIC-SFIT

Dr. C Hariprasad
HOD, FE

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EVENT REPORT

PRAYAS 2024 (An Initiative for FE Students)

Activity Conducted by IIC-SFIT & B. S. & H. Department

Date: March 13, 2024

Time: 10:00 am to 3:00 pm

Venue: Auditorium

Resource person: Ms. Dhwita Shah (Chief Guest)

Nature of the event:

Prayas 2024, held on March 13, 2024, orchestrated by the Basic Science & Humanities department in conjunction with IIC SFIT, marked an exceptional occasion for first-year engineering students. This event served as a fertile ground for innovation, where participants not only showcased their working models and posters but also engaged in informative sessions with discerning judges. The feedback received provided valuable insights for project enhancements. Additionally, the palpable enthusiasm of college students, eagerly perusing through the diverse array of projects, added an extra layer of dynamism to the event.

IIC Members

Advisors:

Greeshma Hedvikar, Jessica Allen Gonsalves, Tejas Vaidya, Parth Rambhia, Vedant Pednekar, Pratham Muchhala, Rushikesh Borakhede, Neel Mistry, Alisha Miranda

Heads:

Aayush Shenavi, Jaskaran Singh, Eva Zacharia, Pratham Shinde, Om Kalekar, Yash Patel, Poorna Dani, Makarand Samant, Shrirang Nikumbh, Anushka Churi

Executives:

Aaron Samuel, Anushree Racharla, Adrian Chitlapully, Atharva Sankhe, Bianca Noronha, Pournima Rode, Suhani Sharma, Rissa Lopes, Tanaya Naidu, Aries Dmello, Jasmeeta Sardesai, Yogesh Mewada, Scania Dsilva, Royston Bansod, Celcia Gonsalves, Shashikant Yadav, Aman Roy, Joel Kathi, Samarth Jain, Uday Singh, Janhvi Bhandarkar, Melwin Das, Shreya Kodanch, Anish Kalbhor, Bhushan, Jonas Kamthankar, Prathamesh Mahadik.

Volunteers from FE


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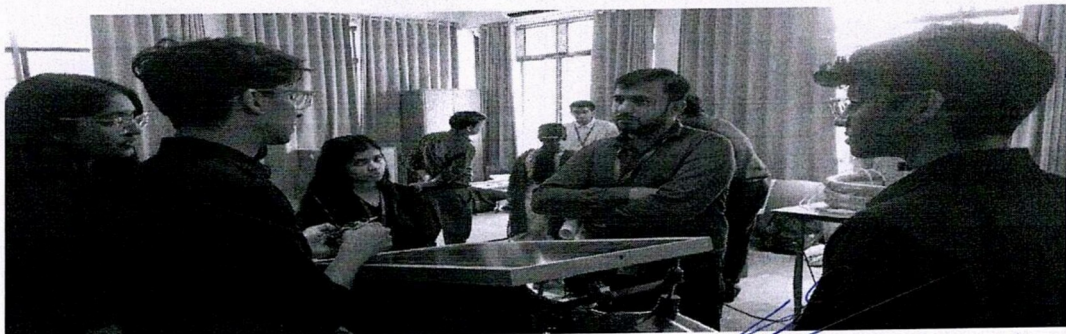
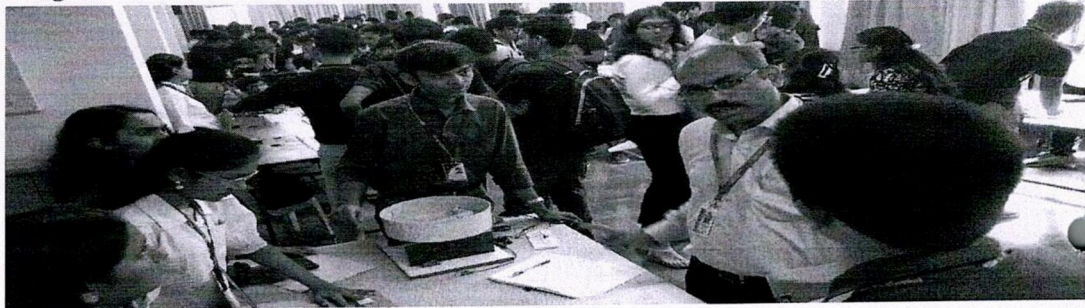


Summary of the event:

Prayas 2024, a collaborative endeavour between the Basic Science and Humanities department and IIC SFIT, saw the light of day under the able coordination of Mr Sainath Ghosalkar. The event kicked off with a ceremonious inauguration, graced by the principal's illuminating remarks on the profound significance of such academic competitions. With six discerning judges at the helm, each delegated to evaluate projects within their specialized domains, the stage was set for an intellectually stimulating affair. Participants, brimming with enthusiasm and zeal, showcased a total of 25 working models and three poster presentation teams, engaging both judges and the audience in insightful discussions and demonstrations. The atmosphere buzzed with curiosity and innovation as each project was meticulously scrutinized and appreciated.

Following an eventful day of presentations and discussions, the clock struck at 3 pm, signalling the commencement of the valedictory ceremony. Amidst eager anticipation, the results of the competition were unveiled, acknowledging the hard work and ingenuity of the participants. Beyond the accolades, this experience is poised to significantly impact the participants' future endeavours. Armed with newfound knowledge and insights, they are now better equipped to turn their ideas into reality, poised to make a tangible difference in the world through their innovative projects. Prayas 2024 not only served as a platform for showcasing academic prowess but also as a catalyst for future innovation, inspiring participants to continue pushing the boundaries of what's possible.

Images:



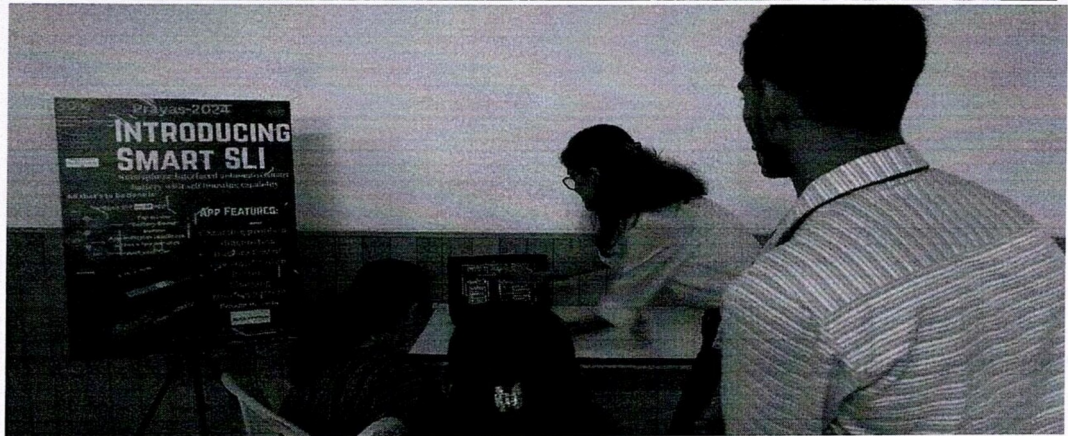
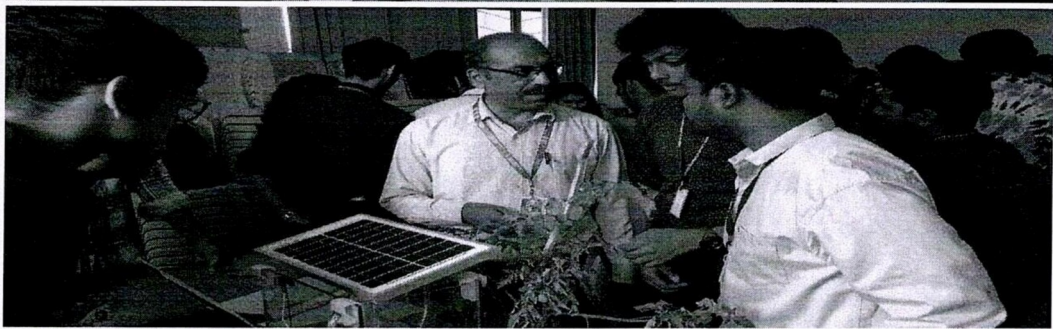
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Prayas-2021
**INTRODUCING
SMART SLI**
A group of digital based and management
students, who will present their
all that's to be done!
APP FEATURES:
- A user friendly interface
- A secure system
- A reliable system
- A flexible system


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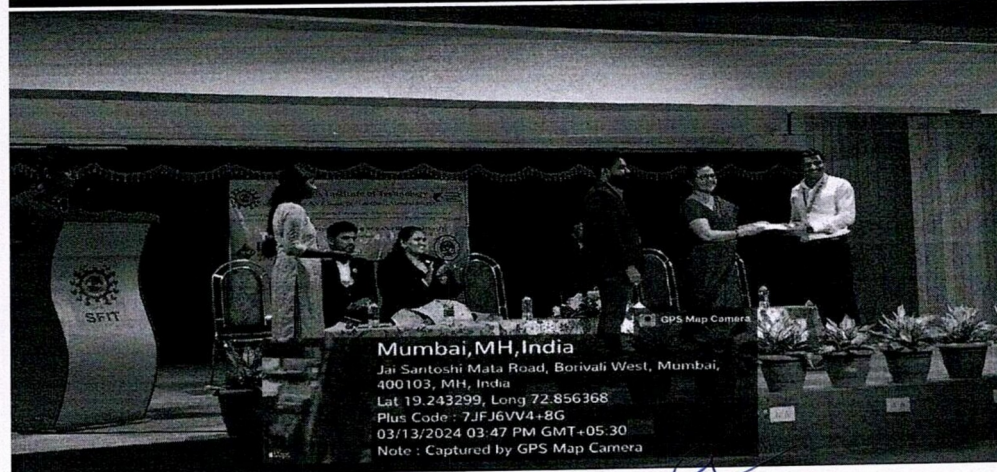
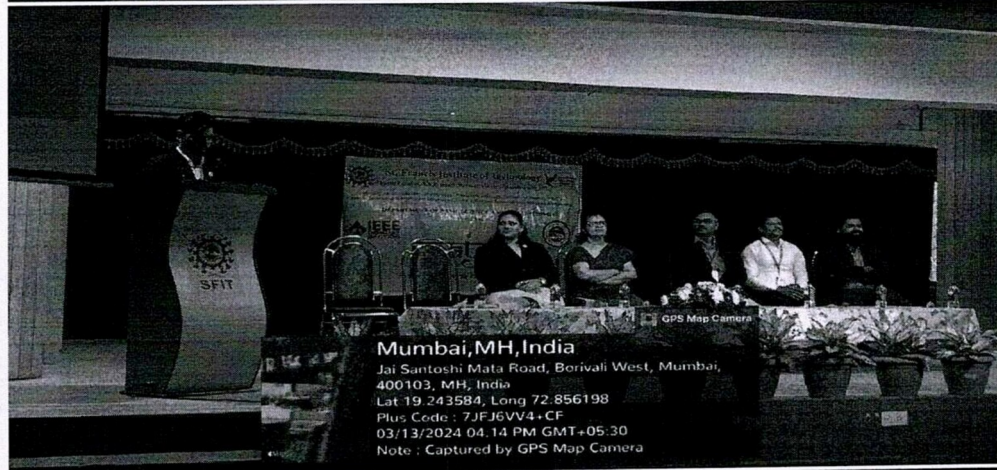
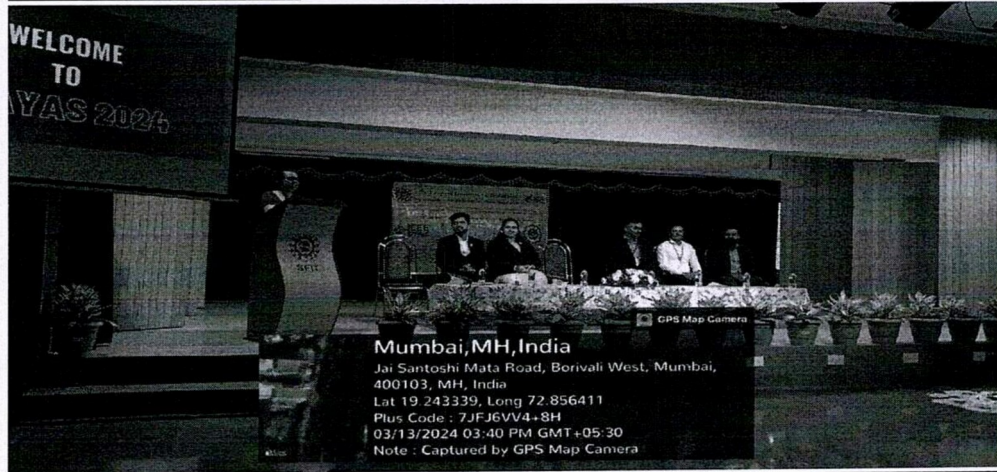
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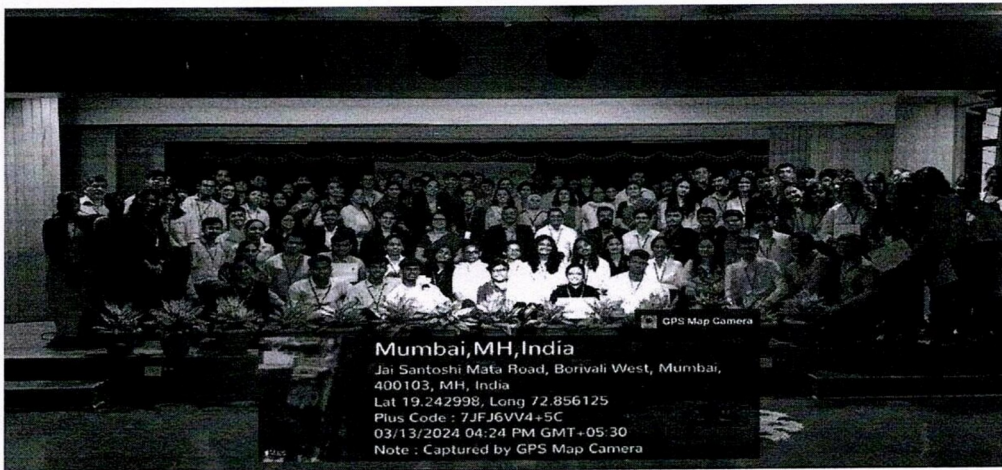
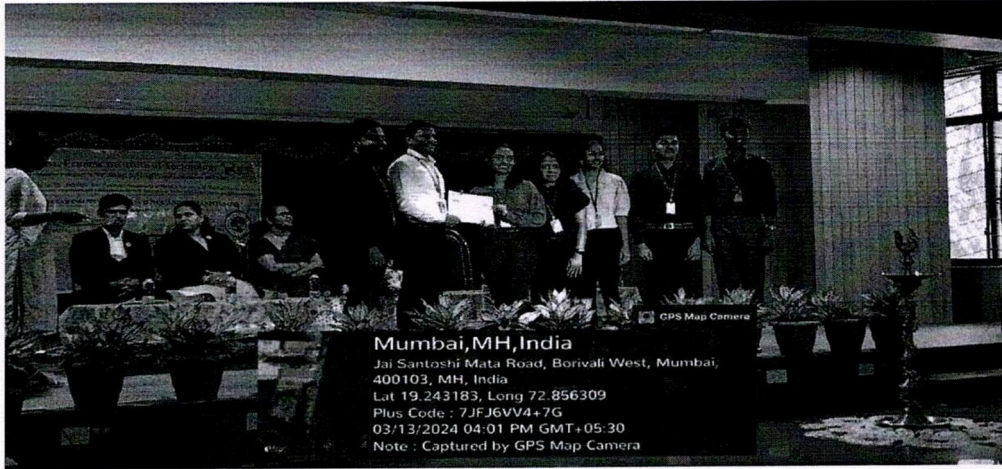
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Report prepared by-

Mr. Adrian Anthony
Publicity Executive, IIC SFIT

Ms. Bidisha Roy
Convener, IIC- SFIT

Dr. Ravindra Garmode
President, IIC - SFIT

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EVENT REPORT

INTELLECTUAL PROPERTY RIGHTS

Conducted by IIC, SFIT & ISTE

A workshop on intellectual property rights (IPR) is important because it helps individuals understand the significance of protecting their creations and innovations. Intellectual property includes inventions, literary and artistic works, designs, symbols, names, and images used in commerce. Without proper understanding and protection of these rights, creators' risk having their work copied or stolen, which can lead to financial losses and discourage further innovation. Additionally, understanding IPR can help individuals navigate the complexities of the legal system and ensure that they are not unknowingly infringing on others' rights. Overall, a workshop on intellectual property rights is crucial for fostering innovation, protecting creators' rights, and promoting economic growth.

The final number of participants was 33.

Objectives:

- Understanding IPR Concepts
- Applying IPR in Business and Innovation
- Navigating the IPR Landscape


The resource person for the Intellectual Property Rights Seminar was Mr. Ajit Kadam.

Venue: Google Meet

Date & time: 9 March 2024, Saturday, 10:00 AM to 11:10 AM.

Program Overview:

It was a 1-hour workshop for teaching students and faculty alike about intellectual property rights. The participants are from the SE, TE, and BE departments. A total of 33 students attended the workshop. The workshop started at 10:00 AM and concluded at 11:10 AM. The meeting was also streamed live on the SFIT YouTube channel.


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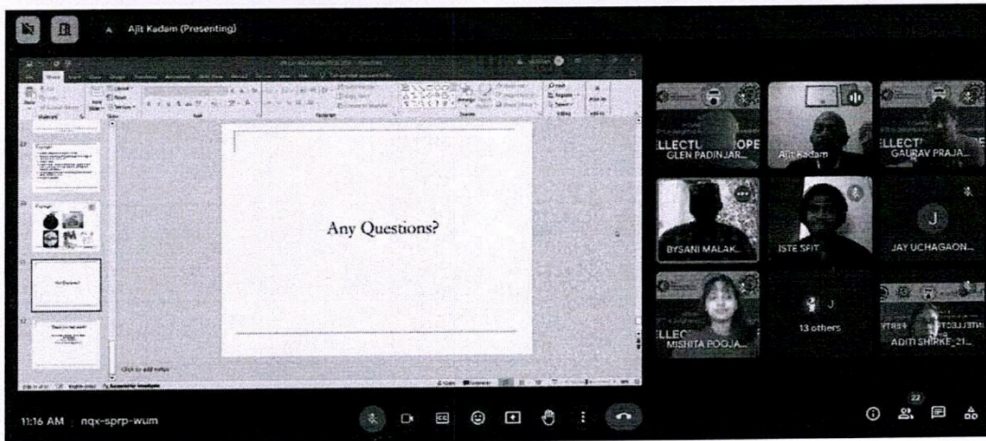
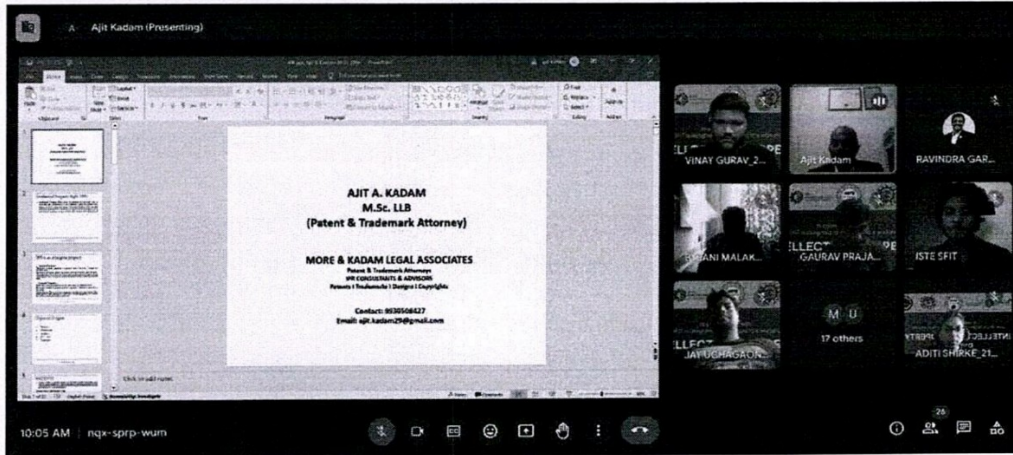
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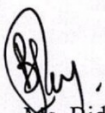


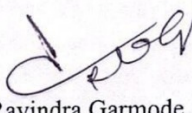
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Photo:




Dr. Ms. Bidisha Roy
Convenor, IIC - SFIT


Dr. Ravindra Garmode
President, IIC - SFIT


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EVENT REPORT

PRAGATI 2024: National Level Business Plan Competition

Conducted by IIC, SFIT

Date: 15th March 2024

Time: 10:00 a.m. - 5:00 p.m.

Venue: St. Francis Institute of Technology (R. No. 114)

Nature of the event:

Pragati is a National Level Business Plan Competition where enterprising students present their shrewd business plans along with their innovative solutions and compete for a prize pool. PRAGATI aims to provide a platform for students with a business vision to compete with teams across India and transform their novel ideas into market-ready business plans. Pragati 2023 received an astounding response from five different states, including Maharashtra, Assam, Tamil Nadu, Karnataka, and Madhya Pradesh.

Institute Innovation Council TEAM

Advisors:

Greeshma Hedvikar, Jessica Allen Gonsalves, Tejas Vaidya, Parth Rambhia, Vedant Pednekar, Pratham Muchhala, Rushikesh Borakhede, Neel Mistry, Alisha Miranda,

Heads:

Aayush Shenavi, Jaskaran Singh, Eva Zacharia, Pratham Shinde, Om Kalekar, Yash Patel, Poorna Dani, Makarand Samant, Shrirang Nikumbh, Anushka Churi

E-Leaders:

Aaron Samuel, Anushree Racharla, Adrian Chitlapully, Atharva Sankhe, Bianca Noronha, Pournima Rode, Suhani Sharma, Rissa Lopes, Tanaya Naidu, Aries Dmello, Jasmeeta Sardesai, Yogesh Mewada, Scania Dsilva, Royston Bansod, Celcia Gonsalves, Shashikant Yadav, Aman Roy, Joel Kathi, Samarth Jain, Uday Singh, Janhvi Bhandarkar, Melwin Das, Shreya Kodanch, Anish Kalbhor, Bhushan, Jonas Kamthankar, Prathamesh Mahadik


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Summary of the event:

Inauguration Ceremony

Date: 15th March, 2024

The ceremony began with opening remarks by the host introducing themselves and giving the audience an introduction to PRAGATI 2024. This was followed by the college prayer. The event was attended by a diverse audience which was introduced by the host including the Chief Guest Mr. Angelo Miranda, SFIT Dignitaries, Head of Departments, Faculty, PRAGATI 2024 Participants and the Students of St. Francis Institute of Technology.

As a symbolic gesture, the chief guest was felicitated with a live bouquet presented by the Director of St. Francis Institute of Technology, Dr. Shantilal Kujur. He then addressed the congregation. Following this the keynote address by the Chief Guest, Mr. Angelo Miranda was delivered focusing on "Transforming with Innovation and Entrepreneurship". Mr. Miranda highlighted the importance of utilizing innovative approaches and entrepreneurial principles to bring about positive change, growth, and progress in various aspects of society, including business, technology, education, government, and social sectors. His keynote address concluded with wishing everyone the best of luck for the competition.


Before the commencement of the competition, the host gave everyone a brief overview of the competition structure.

Round 1: Business Plan Presentation

Date: 15th March 2024

A business plan presentation was a formal presentation of a comprehensive business plan to the judges. The purpose of a business plan presentation was to provide a clear and compelling overview of the business and its potential for success and to convince the audience to invest in or support the business. A template for the business plan was provided to the participants before the competition. After the presentation, the participants were asked to showcase their Product/Proof of Concept to the judges. This presentation was followed by a short and brief Q&A session. A total of 20 teams participated in Round 1. All the teams qualified for round 2. Based on their performance, a Leaderboard was generated displaying the Overall Ranking for each team.

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Round 2: Elevator Pitch & Q&A Session

Date: 15th March 2024

In the second round of Pragati 2023, a total of 20 teams showcased their prowess. Elevator pitches, concise and persuasive presentations lasting only 2 minutes each, were the order of the day, aiming to captivate judges' attention with clear and memorable messages about products, services, ideas, or projects. Following this, an in-depth interrogation of business plans ensued, devoid of any aids like PPTs or reference materials. Judges posed a blend of generic and project-specific questions, affording each of the six remaining teams an equitable opportunity to shine. This independent round culminated in the selection of three finalists, who emerged as the victors of Pragati 2023, advancing to the winners.

Valedictory Ceremony

Date: 15th March 2024

The valedictory ceremony began with the host welcoming all our Director of St. Francis Institute of Technology, Dr. Shantilal Kujur. The highlight of the ceremony was the announcement of the winners of PRAGATI 2023. The top three teams were invited to the stage and presented with trophies and certificates by the Chief Guest and Dignitaries. The first-place team, "Gears & Gauges," received a cash prize of Rs. 40,000. The second and third-place teams, "Hosteze" and "Picapull," received cash prizes of Rs. 20,000 and Rs. 10,000 respectively. Overall, the valedictory ceremony was a memorable event, filled with emotions of pride, joy, and anticipation. The participants were encouraged to continue their entrepreneurial journey and apply the knowledge and skills gained through the competition to their future business endeavors.


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1st Prize - Team Gears & Gauges (St. Francis Institute of Technology, Mumbai)



2nd Prize - Team Hostez (AISSMS College of Engineering, Pune)

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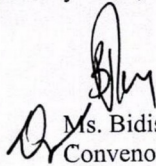


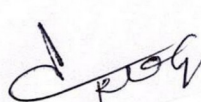
3rd Prize - Team Picapull (IIT Hyderabad)



IIC Faculty and Student members (Organizing Team)

Report prepared by-
Ms. Eva Zacharia
Publicity Head, IIC SFIT


Ms. Bidisha Roy
Convenor, IIC- SFIT


Dr. Ravindra Garmode
President, IIC - SFIT


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EVENT REPORT

Telecom Network Management: Practical Approach DSA Dynamo

A Seminar Conducted by IIC-SFIT

Date: February 26, 2024

Time: 10.15 AM – 12.15 PM

Venue: TPO Seminar Hall

Resource person: B. D. Gokhale

Recorded Link:

https://drive.google.com/file/d/1Iiy2vina7yEAT8oSzKgd26xZ5DO7Q83N/view?usp=drive_link

Nature of the event:

The speaker of the seminar was Mr. B. D. Gokhale, a distinguished Electronics and Communication Engineering graduate from VNIT Nagpur. He has 40 years of professional and 10 years of academic experience.

He is renowned for his expertise in Wireless Communication and Optical Fiber projects. As a Faculty at St. Francis Institute of Technology from 2008 to 2018, he focused on Optical Communication, Telecom Network Management, Digital Communication Systems, and Project Management.


Volunteer Details

vanshika6sharma@student.sfit.ac.in	Vanshika Sharma	TE EXTC B
ashraf78612349@student.sfit.ac.in	Mohd Ashraf Ansari	TE EXTC A
pmitali2003@student.sfit.ac.in	Mitali Taresh Patel	TE EXTC B
bhardwajkaran364@student.sfit.ac.in	Karan Bhardwaj	TE EXTC A
asmipadwankar@student.sfit.ac.in	Asmi Padwankar	TE EXTC B
rishabhchauhan329@student.sfit.ac.in	Rishabh Chauhan	TE EXTC A

Summary of the event:

The event focused on the following key points in Telecom Network Management:

1. Explains the prototype process and design of networking systems.
2. Explore the latest trends & advancements.
3. Understand challenges & best practices.
4. Discuss strategies & technologies.


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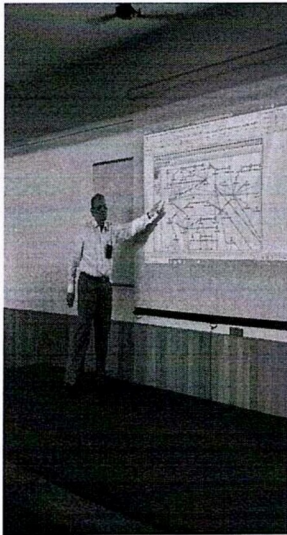
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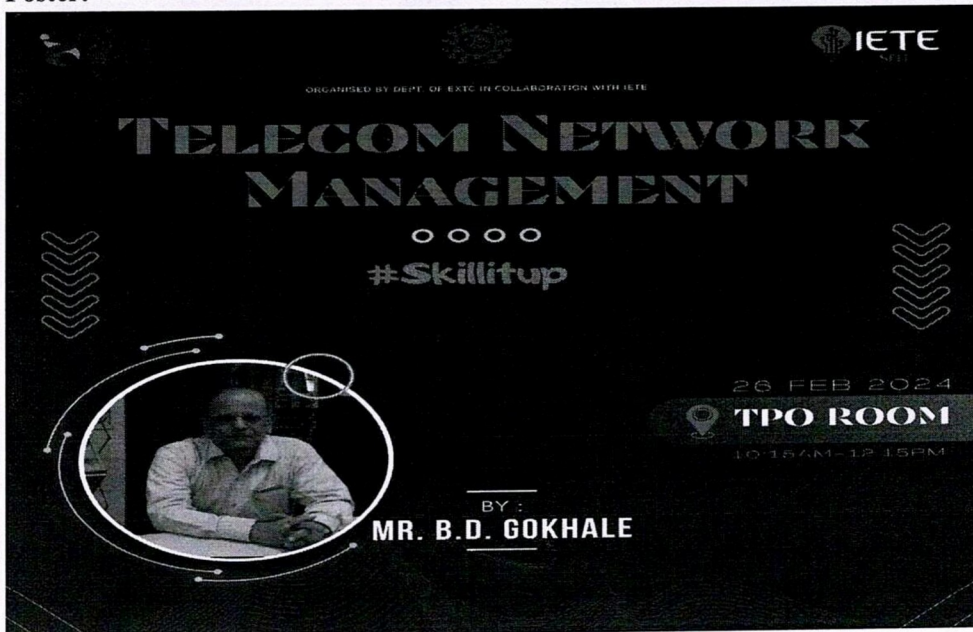
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5. Identify future directions & technologies.
6. Empower with practical skills & insights.
7. Foster networking & collaboration.



Poster:



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IIC-SFITT

Events for Even Semester A.Y. 2023-24

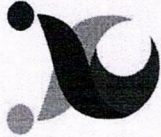
Sr. No.	Proposed Event	Type of Event	Mode	Resource person	Proposed Dates (Day)	In-charge
1	Workshop on Design Thinking, Critical thinking, and Innovation Design	IIC Calendar Event (Q2)	Online/Offline	Dr. Shubham Mehta, Mumbai	Thursday, February 22, 2024	Dr. Ravindra Garmode Dr. Adil Sheikh Mr. Omkar Pawar
2	Organizing Innovation & Entrepreneurship Outreach Program in Schools/Community (National Science Day)	IIC Calendar Event (Q2)	Offline	1. Team Tejas, Team Gate, Team RAW.	Wednesday, February 28, 2024	Ms. Chinmayee Bhanage Mr. Saurabh Vichare Ms. Akanksha Naik
3	Organize an Expert talk on the Process of Innovation Development, Technology Readiness Level (TRL); Commercialization of Lab Technologies & Tech-Transfer (Motorsport)	IIC Calendar Event (Q2)	Online/Offline	Mr. Omkar Rane and the UMA Team	Wednesday, February 07, 2024	Dr. Ravindra Garmode Mr. Saurabh Vichare
4	Workshop on Entrepreneurship Skill, Attitude and Behavior Development (E-Day)	IIC Calendar Event (Q2)	Online/Offline	Dr. Bidisha Roy Dr. Adil Sheikh	Monday, February 26, 2024	Ms. Ari Bhatnagar Ms. Chinmayee Bhanage Mr. Saurabh Vichare
5	Conduct a Session on Achieving Problem-Solution Fit and Product-Market Fit	IIC Calendar Event (Q2)	Online/Offline	Dr. Shubham Mehta, Mumbai	Thursday, February 22, 2024	Dr. Ravindra Garmode Dr. Adil Sheikh Mr. Omkar Pawar

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Sr. No.	Proposed Event	Type of Event	Mode	Resource person	Proposed Dates (Day)	In-charge
6	Field/Exposure Visit to Pre-incubation units such as Ideas Lab, Fab Lab, Makers Space, Design Centers, City MSME clusters, workshops etc. (FE IV)	IIC Calendar Event (Q2)	Offline		March 1-2, 2024	Dr. Minal Lopes Mr. M. K. Bysani Ms. Arti Bhatnagar
7	Organise an Inter/Intra Institutional Innovation Competition/Challenge/Hackathon and Reward the Best Innovations. (Prayas-2024)	IIC Calendar Event (Q2)	Offline	Team Prayas	Wednesday, March 13, 2024	Ms. Arti Bhatnagar Ms. Chinmayee Bhange Ms. Akanksha Naik
8	Mentoring Event: Demo Day/Exhibition/Poster Presentation of Innovations/Prototypes & linkage with Innovation for Ambassadors/Experts Mentorship Support. (Project Expo)	IIC Calendar Event (Q2)	Online/Offline	SFIT (All Department)	April first week, 2024	Dr. Adil Sheikh Ms. Snehal Kulkarni Ms. Shilpa Chaman Ms. Chinmayee Bhange Ms. Akanksha Naik Mr. Saurabh Vichare Mr. Omkar Pawar
9	Workshop on Prototype/Process Design and Development.	IIC Calendar Event (Q3)	Offline/Online			Mr. M. K. Bysani Ms. Shilpa Chaman
10	Session/ Workshop on Business Model Canvas (BMC)	IIC Calendar Event (Q3)	Offline/Online	*Technical Chapter/Department		*Technical Chapter/Department Mr. Omkar Pawar
11	Field/Exposure Visit to Incubation Unit/Patent Facilitation Centre/Technology Transfer Centre such as Atal Incubation Centre etc.	IIC Calendar Event (Q3)	Offline	*Technical Chapter/Department		*Technical Chapter/Department Ms. Akanksha Naik
12	Session on "How to plan for Start-up and legal & Ethical Steps"	IIC Calendar Event (Q3)	Offline/Online			Ms. Snehal Kulkarni Mr. M. K. Bysani Ms. Shilpa Chaman

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Sr. No.	Proposed Event	Type of Event	Mode	Resource person	Proposed Dates (Day)	In-charge
13	Workshop on Intellectual Property Rights (IPRs) and IP management for start-up	IIC Calendar Event (Q3)	Offline/Online	Online	March, 2024	Mr. M. K. Bysani Ms. Shilpa Chamam
14	Organize an Inter/Intra Institutional Business Plan Competition and Reward Best Innovations. (PRAGATI)	IIC Calendar Event (Q3)	Offline	Team Pragati	March 15-16, 2024	Dr. Bidisha Roy Ms. Snehal Kulkarni Dr. Adil Sheikh Mr. Saurabh Vichare
15	Mentoring Event: Demo Day/Exhibition/Poster Presentation of Business Plans & linkage with Innovation Ambassadors/Experts for Mentorship Support.	IIC Calendar Event (Q3)	Offline/Online	*Technical Chapter/Department		*Technical Chapter/Department Ms. Shilpa Chamam


Ms. Bidisha Roy
Convener, IIC - SFIIT

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Dr. Ravindra Garmode
President, IIC - SFIIT



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EVENT REPORT

WOMEN'S DAY CELEBRATION

Date: March 14, 2024

Time: 3:15 p.m. – 5:00 pm

Venue: College Auditorium (Room no. 118)

Nature of the event:

The event is a celebration of International Women's Day organized by the Internal Complaints & Women's Development Cell (ICWDC) and the Institute Innovation Council (IC) of the Institute. It aims to empower female students through knowledge-sharing sessions and recognizes their achievements. The event also promotes financial literacy among women, featuring a speaker, Ms. Dipti Bhate Thakkar, who will discuss the importance of financial knowledge in achieving financial freedom.

E-Cell Members

Advisors:

Greeshma Hedvikar, Jessica Allen Gonsalves, Tejas Vaidya, Parth Rambhia, Vedant Pednekar, Pratham Muchhala, Rushikesh Borakhede, Neel Mistry, Alisha Miranda

Heads:

Aayush Shenavi, Jaskaran Singh, Eva Zacharia, Pratham Shinde, Om Kalekar, Yash Patel, Poorna Dani, Makarand Samant, Shrirang Nikumbh, Anushka Churi


Executives:

Aaron Samuel, Anushree Racharla, Adrian Chitlapully, Atharva Sankhe, Bianca Noronha, Pournima Rode, Suhani Sharma, Rissa Lopes, Tanaya Naidu, Aries Dmello, Jasmeeta Sardesai, Yogesh Mewada, Scania Dsilva, Royston Bansod, Celcia Gonsalves, Shashikant Yadav, Aman Roy, Joel Kathi, Samarth Jain, Uday Singh, Janhvi Bhandarkar, Melvin Das, Shreya Kodanch, Anish Kalbhor, Bhushan, Jonas Kamthankar, Prathamesh Mahadik

Summary of the event:

The event took place on Thursday, 14th March 2024, at the Auditorium of the Institute. It commenced at 3:15 pm with a warm welcome to all attendees, especially female students. The focus of the event was on empowering women through financial knowledge, with Ms. Dipti Bhate Thakkar, a Certified Accountant (CA) and Qualified Personal Financial Professional (QPFP), delivering a talk on "Financial Freedom: Empower Yourself Through Financial Knowledge."

The Hosts for the day Ms. Ruth D'abreo and Ms. Sania Nemade introduced and welcomed Ms. Dipti Bhate Thakkar along with the college dignitaries.


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She elaborated on various aspects of financial literacy, including budgeting, saving, investing, and managing debt. Ms. Thakkar highlighted the significance of understanding financial concepts and taking proactive steps to secure one's financial future. Ms. Thakkar also addressed common financial challenges faced by women, such as the gender pay gap and societal expectations, and provided guidance on overcoming these obstacles.

Overall, Ms. Thakkar's presentation on financial freedom resonated with the attendees, empowering them with valuable knowledge and practical insights to make informed financial decisions.

Additionally, the celebration featured a captivating performance by SHE band, adding an element of artistic expression and entertainment to the event. Their performance added vibrancy and enthusiasm, further enhancing the celebratory atmosphere of International Women's Day.

Additionally, the event served as a platform to recognize the winners of Marathi Basha Divas, adding a cultural and linguistic dimension to the celebration.

Ms. Poorna Dani, representing the Institution's Innovation Council, commemorated International Women's Day by emphasizing the theme "Invest in women: Accelerate progress." She highlighted the invaluable contributions of women to society and urged for recognition of their resilience and determination. She concluded with a call to action, encouraging everyone to invest in women to drive innovation, economic growth, and create resilient communities.

At the conclusion of the event, all girl attendees were given pads and chocolates, possibly as a gesture of support and appreciation for their participation and contribution to the event.

Overall, the event successfully combined elements of education, celebration, and recognition, with a focus on empowering women and promoting their holistic development.


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Glimpse of event:



Marathi Bhasha Diwas Prize Distribution :



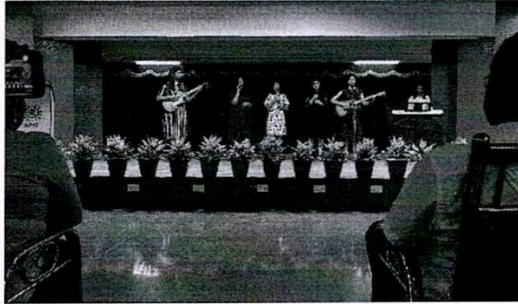
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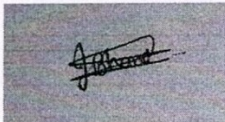
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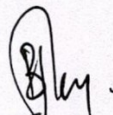


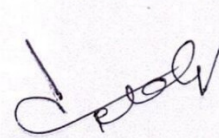
Report prepared by



Ms. Janhvi Bhandarkar
Marketing Executive, IIC SFIT


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Dr. Ms. Bidisha Roy
Convenor, IIC- SFIT


Dr. Ravindra Garmode
President, IIC - SFIT



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EVENT REPORT

Start-up Saturday

A Seminar Conducted by IIC - SFIT

Date: September 2, 2023

Time: 6:30 p.m. - 8:00 p.m.

Venue: Over Google Meet

Resource person: Dr. Prachi Raut, HOD of INFT department at SFIT

Recorded Link:

<https://drive.google.com/file/d/1G-ulw6jgLvfpz4rMTJslOzq1rDV3ou6/view?usp=sharing>

Nature of the event:

“Embarking on any remarkable journey begins with a single step” – a sentiment that aptly captures the essence of the Startup Saturday webinar that unfolded on September 2, 2023. This event, conducted by IIC SFIT and graced by the extraordinary presence of Dr. Prachi Raut, emphasised the critical role of entrepreneurship in propelling innovation, fostering economic growth, and advancing society. Dr. Raut, a beacon of wisdom and mentorship, illuminated the path to success in the world of startups. Throughout the webinar, Dr. Raut closely analysed three key aspects essential for startup acceleration: dispelling myths surrounding innovation, unveiling its sources, and igniting the innovation engine.

E-Cell Members

Advisors:

Greeshma Hedvikar, Jessica Allen Gonsalves, Tejas Vaidya, Parth Rambhia, Vedant Pednekar, Pratham Muchhala, Rushikesh Borakhede, Neel Mistry, Alisha Miranda

Heads:

Aayush Shenavi, Jaskaran Singh, Eva Zacharia, Pratham Shinde, Om Kalekar, Yash Patel, Poorna Dani, Makarand Samant, Shrirang Nikumbh, Anushka Churi

Executives:

Aaron Samuel, Anushree Racharla, Adrian Chitlapully, Atharva Sankhe, Bianca Noronha, Pournima Rode, Suhani Sharma, Rissa Lopes, Tanaya Naidu, Aries Dmello, Jasmeeta Sardesai, Yogesh Mewada, Scania Dsilva, Royston Bansod, Celcia Gonsalves, Shashikant Yadav, Aman Roy, Joel Kathi, Samarth Jain, Uday Singh, Janhvi Bhandarkar, Melvin Das, Shreya Kodanch, Anish Kalbhor, Bhushan, Jonas Kamthankar, Prathamesh Mahadik

Summary of the event:

The event was arranged by IIC SFIT, hosted by Scania D'Silva, the publicity executive of IIC, and enriched by the remarkable presence of Dr. Prachi Raut.

Dr. Raut commenced by providing an introduction to IIC SFIT and their event, Start-up Saturday. Ma'am began by outlining the agenda for the presentation which included three main points: myths related to innovation, sources of innovation and firing up innovation .



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The presentation started by addressing the significance of entrepreneurship. Dr. Raut highlighted three practical reasons: increasing GDP, creating employment and boosting

capital investment and two social reasons: driving the culture of innovation and uplifting the standard of living which will lead to the termination of migration, to emphasise why entrepreneurship is crucial.

Next, ma'am continued by briefing on the points of the agenda, starting off with the first one - **breaking the myths of innovation**. Dr. Raut spoke about various myths that are stuck in an individual's mind and gave a real-world point of view to the audience. ma'am spoke about how anyone and everyone can innovate, innovation is only and only work, until desired output is attained and how innovation is all about one step at a time.

The second point of the agenda was - **sources of innovation**. Dr. Raut gave the attendees five basic sources of innovation -

1. New product
2. New method of production
3. Opening new market / enlarging audience
4. New source of supply of raw materials
5. New form of industry

Later, Dr. Raut provided an overview of the third point on the agenda - **firing up the innovation engine**. During this part of her presentation, she introduced the concept of corporate entrepreneurship, which was quite novel to the audience. This introduction opened up a unique pathway for stimulating innovation and offering a fresh perspective on how to foster innovative thinking within the corporate context.

Ma'am also shared the steps that takes a start-up to a business

Step 1: Getting your ideas right

- Look out for problem statements
- Try creating value for your idea
- Connect it to a social cause

Step 2: Validate

- Get feedback
- Make changes till better feedbacks are obtained

Step 3: Early traction

- Phase where real first customers come in
- Bring in angel / bank investors

Step 4: Growth

- Increasing revenue

Step 5: Exit

- Phasing from start-up to business



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Furthermore, Dr. Raut provided valuable insights into fostering innovation in the workplace, illustrated through examples from companies like Starbucks and Lays. Ma'am highlighted instances where innovative ideas such as writing customer's name on the coffee cup or introducing Mexican flavours to the chips originated not from corporate but

from frontline employees. These real-world examples underscore the importance of cultivating a culture of innovation that encourages contribution at all levels of an organisation.

Lastly, ma'am spoke about the steps of bringing in innovation at workplace


1. Pick a problem.
2. Ask suggestions from employees.
3. Reward a smart solution.
4. Implement the feedback.

The webinar came to an end with numerous questions posed by the participants, all of which were expertly addressed by our mentor, Dr. Prachi Raut.

The event provided the participants with a comprehensive understanding of entrepreneurship, innovation, and their significance in today's dynamic business. Dr. Prachi Raut's insights, coupled with actionable steps and real-world examples, have undoubtedly inspired and equipped the audience to embark on their own entrepreneurial journeys and contribute to a culture of innovation in their respective workplaces.



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PRACHI RAUT (Presenting)

The Process of Innovation for Start-up

- Step 1: Ideate**
 - Find pain points
 - Create value
 - Prototype
- Step 2: Validate**
 - Launch
 - Feedback
 - Repeat
- Step 3: Early Traction**
 - First customers
 - First Investors: Angel, Banks
- Step 4: Growth**
 - Increasing revenue
 - First VC
- Step 5: Exit**
 - Acquisition
 - IPO
 - Selling shares

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Why Entrepreneurship is So Important ?

- Increases GDP
- Creates employment
- Boosts capital investment
- Drives a culture of innovation
- Uplifts standard of living

PRACHI is presenting

Poster:

STARTUP SATURDAY WEBINAR

2nd SEP, 2023
6:30 PM ONWARDS
GOOGLE MEET

SPEAKER : Dr. Prachi Raut
HEAD OF IT DEPARTMENT, SFIT

REGISTER NOW

Report prepared by

Ms. Jasmeeta Sardesai
Publicity Executive, IIC SFIT

Ms. Bidisha Roy
Convener, IIC- SFIT

Dr. Ravindra Garmode
President, IIC - SFIT

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EVENT REPORT- Unnati

Demystifying Artificial Intelligence

A Seminar Conducted by IIC - SFIT

Date: September 12, 2023

Time: 4 p.m. -6:30 pm

Venue: Computer room (Room-128)

Resource person: Mr. Vishek Pratap, Co-founder and CMO of TechValley

Nature of the event:

Every significant journey begins with that crucial first step, a notion that beautifully encapsulates the essence of the "**Demystifying Artificial Intelligence**" seminar held on September 12, 2023. This event, meticulously orchestrated by IIC SFIT and graced by the distinguished presence of Mr. Vishek Pratap, and looked forward to embarking upon an exploration into the intriguing realm of AI. All the attendees eagerly anticipated unraveling artificial intelligence's mysteries, taking their inaugural stride into a captivating domain where ingenuity, technology, and boundless potential converged. It was a day where intellectual curiosity converged with expert knowledge, signifying the initiation of a profound journey into the future of AI."

E-Cell

Members:

Advisors:

Greeshma Hedvikar, Jessica Allen Gonsalves, Tejas Vaidya, Parth Rambhia, Vedant Pednekar, Pratham Muchhala, Rushikesh Borakhede, Neel Mistry, Alisha Miranda

Heads:

Aayush Shenavi, Jaskaran Singh, Eva Zacharia, Pratham Shinde, Om Kalekar, Yash Patel, Poorna Dani, Makarand Samant, Shrirang Nikumbh, Anushka Churi

Executives:

Aaron Samuel, Anushree Racharla, Adrian Chitlapully, Atharva Sankhe, Bianca Noronha, Pournima Rode, Suhani Sharma, Rissa Lopes, Tanaya Naidu, Aries Dmello, Jasmeeta Sardesai,


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Yogesh Mewada, Scania Dsilva, Royston Bansod, Celcia Gonsalves, Shashikant Yadav, Aman Roy, Joel Kathi, Samarth Jain, Uday Singh, Janhvi Bhandarkar, Melwin Das, Shreya Kodanch, Anish Kalbhor, Bhushan, Jonas Kamthankar, Prathamesh Mahadik

Summary of the event:

The event was arranged by IIC SFIT, hosted by Celcia Gonsalves, the publicity executive of IIC, and enriched by the remarkable presence of Mr. Vishek Pratap

Mr. Pratap commenced by providing an introduction to IIC SFIT and their event, **UNNATI 2023** and introduced his topic, "**Demystifying Artificial Intelligence**," with a sense of anticipation and curiosity that left the audience eager to embark on a journey into the fascinating world of AI. During the seminar led by Mr. Pratap, the central theme revolved around the idea of seeking careers rather than mere jobs. Mr. Pratap opened the session with a thought-provoking quote, "**Look for careers and not jobs**,"

The seminar began with an exploration of the fundamental concept of Artificial Intelligence (AI) and its various types. The presenter, an expert in the field, introduced the theme by discussing the essence of AI, emphasizing its role in mimicking human-like intelligence through machines and software.

To make the seminar more engaging and interactive, the presenter interacted with the students throughout the event, encouraging questions and discussions. This approach helped foster a dynamic learning environment and engaged the audience.

The core ideas discussed during the seminar can be summarized as follows:

Defining AI: The seminar began by defining AI as the simulation of human intelligence processes by machines, including learning, reasoning, problem-solving, perception, and language understanding. AI systems aim to mimic human-like cognitive abilities.

Types of AI:

Artificial Narrow Intelligence (ANI): ANI, also known as Weak AI, refers to AI systems designed for a specific task or domain. They excel in performing a single task or a narrow set of tasks.

Examples include voice assistants like Siri and Alexa.

Artificial General Intelligence (AGI): AGI, also known as Strong AI, represents AI systems with human-like general intelligence. AGI can understand, learn, and adapt across various domains, similar to human cognition. Achieving AGI remains a significant challenge in the field of AI.

Artificial Superintelligence (ASI): ASI is a theoretical concept where AI systems surpass human intelligence across all aspects and domains. It would be capable of solving complex problems, making decisions beyond human capacity, and rapidly improving itself. ASI is a topic of speculative discussion and potential future development.

Mr. Pratap focused on exploring the potential job displacement caused by artificial intelligence (AI). Mr. Pratap used a live demonstration utilizing chat GPT to illustrate this



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concept. The following key ideas were noted during the seminar:

1. Reskilling and Upskilling: The discussion also emphasized the importance of reskilling and upskilling the workforce to adapt to the changing job landscape. Participants recognized the need for continuous learning to stay competitive in an AI-driven job market.

2. AI Job Disruption: The seminar highlighted the growing concern of AI technologies displacing human jobs across various industries. AI, with its ability to automate tasks and perform cognitive functions, has the potential to reshape the job market significantly.

3. Live GPT Demonstration: Mr. Pratap conducted a live demonstration using chat GPT to simulate conversations about which jobs might be at risk due to AI advancements. This showcased how AI can assist in predicting job vulnerabilities and understanding the impact on specific professions.

- Participants gained valuable insights into strategies for making their jobs future-proof and enhancing job security. The following key ideas were noted during the seminar:

1. Continuous Learning: Mr. Pratap emphasized the importance of continuous learning and skill development. He encouraged attendees to stay updated with industry trends and acquire new skills to remain relevant in a rapidly changing job market.

2. Adaptability: Participants were reminded that adaptability is a crucial trait for job security. Being open to change and flexible in one's approach to work allows individuals to navigate evolving job requirements effectively.

3. Tech Literacy: Mr. Pratap stressed the significance of technology literacy. Understanding and leveraging technology, including AI and automation, can enhance job performance and make one more valuable to their organization.

4. Networking: Building a professional network was discussed as a means of job security. A strong network can provide opportunities for collaboration, mentorship, and job referrals, making it easier to find new opportunities if needed.

5. Soft Skills: Soft skills such as communication, problem-solving, and leadership were highlighted as essential for job security. These skills are often transferable across various roles and industries.

Quiz Time:

Mr. Pratap led an engaging and interactive element was introduced with a fun quiz related to the session's content on AI. The quiz allowed participants to test their knowledge and understanding of AI concepts. The following key ideas and outcomes were noted during this quiz session:

Engagement and Participation: The quiz added an element of engagement and active participation to the seminar, making the learning experience more enjoyable for attendees.

Knowledge Assessment: Participants had the opportunity to assess their understanding of AI and the seminar's key concepts through the quiz questions. It served as a form of self-



The top 3 winners gained a valuable opportunity to receive one-on-one assistance and guidance from Mr. Pratap in crafting their resumes. This personalized help could be instrumental in enhancing their job prospects.

During the seminar led by Mr. Pratap, a session focused on optimizing attendees' **LinkedIn profiles using AI tools**. This segment highlighted the significance of LinkedIn as a key platform for professional networking and job-seeking. Mr. Pratap introduced AI-powered techniques to enhance profile content, keywords, and visual elements, making profiles more appealing to potential employers and connections. Participants learned how AI can assist in identifying relevant keywords, improving visual elements, and expanding their professional network effectively. This session emphasized the importance of ongoing profile maintenance and personal branding to maximize job opportunities and networking prospects in the digital job market.

As the seminar drew to a close, it was marked by active participant engagement and a fruitful exchange of ideas. Attendees offered valuable feedback, sharing their thoughts on the seminar's content, presentation style, and overall experience. They raised insightful questions, demonstrating a genuine interest in delving deeper into the seminar's subjects. Many expressed appreciations for Mr. Pratap's expertise and the opportunity to participate, underscoring the value they had gained.



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**DEMYSIFYING AI
& BUILDING LINKEDIN**

>>>>>>>>

12th SEP, 2023

3:00 PM onwards

Computer Centre

SPEAKER : Vishek Pratap
CO-FOUNDER & CMO OF TECHVALLEY

Report prepared by-

Mr. Aaron Samuel
Publicity Executive, IIC SFIT

Ms. Bidisha Roy
Convenor, IIC- SFIT

Dr. Ravindra Garmode
President, IIC - SFIT

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EVENT REPORT

Challenges in Mission Design, Launch Vehicle, and Satellites

Conducted by IIC - SFIT

Date: September 13, 2023

Time: 3:00 p.m. - 5:00 p.m.

Venue: Computer center (128)

Resource person: Dr. S Geetha, Director of Control Systems, Skyroot Aerospace Private Limited, Hyderabad

Recorded Link:

https://drive.google.com/file/d/1_p0JI4Gp3hBs8eYdyD8jj-AFSt1UV63q/view?usp=sharing

Nature of the event:

"Exploring the unknown commences with a single step," a sentiment echoed in the enlightening event of September 13, 2023, featuring Dr. Geetha S. Organized by IIC SFIT, this extraordinary gathering highlighted the pivotal role of space exploration in fostering innovation, economic growth, and societal advancement. Dr. Geetha, a luminary in space science, dissected Chandrayaan-III's intricacies, providing a roadmap for success. Throughout the webinar, she closely analyzed three key aspects: dispelling space innovation myths, unveiling sources of groundbreaking discoveries, and igniting the engine of innovation. Students and space enthusiasts gained profound insights into space exploration's complexity, inspiring a new generation's journeys of discovery.

IIC Members

Advisors:

Greeshma Hedvikar, Jessica Allen Gonsalves, Tejas Vaidya, Parth Rambhia, Vedant Pednekar, Pratham Muchhala, Rushikesh Borakhede, Neel Mistry, Alisha Miranda

Heads:

Aayush Shenavi, Jaskaran Singh, Eva Zacharia, Pratham Shinde, Om Kalekar, Yash Patel, Poorna Dani, Makarand Samant, Shrirang Nikumbh, Anushka Churi

Executives :

Aaron Samuel, Anushree Racharla, Adrian Chitlapully, Atharva Sankhe, Bianca Noronha, Purnima Rode, Suhani Sharma, Rissa Lopes, Tanaya Naidu, Aries Dmello, Jasmeeta Sardesai, Yogesh Mewada, Scania Dsilva, Royston Bansod, Celcia Gonsalves, Shashikant Yadav, Aman Roy, Joel Kathi, Samarth Jain, Uday Singh, Janhvi Bhandarkar, Melwin Das, Shreya Kodanch, Anish Kalbhor, Bhushan, Jonas Kamthankar, Prathamesh Mahadik


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Summary of the event:

The event was arranged by IIC SFIT, hosted by Jasmeeta Sardesai, the publicity executive of IIC, and enriched by the remarkable presence of Dr. S Geetha.

"As Chandrayaan-III touched down on the lunar surface, it echoed the sentiment that in the vast expanse of the cosmos, we find not only the mysteries of the universe but also the limitless potential of human curiosity and innovation."

Dr. Geetha S, a distinguished scientist with extensive experience in space missions and roles within the Indian Space Research Organization (ISRO), recently presented a captivating celebration of the successful Chandrayaan-III landing.

She began by introducing herself and sharing her noteworthy contributions to the field of space exploration. She then delved into the intricacies of the mission's feasibility and configuration, highlighting the pivotal role of payload and the adjustments made to the launch vehicles.

Existing launch vehicles, such as PSLV and GSLV, were compared to the innovative, renewable, and recoverable new launch vehicle. Dr. Geetha emphasized the challenge of modelling, encompassing trajectory, navigation, guidance, and control, as these factors dictate the launch vehicle's path, stability, and fuel efficiency from ground to space entry.

Vehicle modelling was explored further, with a focus on propulsion, structural data, and configuration. Trajectory design, vital for calculating the path from the launch pad to the injection point, was discussed. Dr. Geetha outlined the steps involved in separating different parts of the launch vehicle in space and highlighted constraints in trajectory design, including the end point, ascent phase, separation event, impact, and tracking.

The presentation extended to range safety and casualty expectancy, shedding light on measures taken to mitigate public risk during launch. The Navigation, Guidance, and Control (NGC) system's role was described, alongside insights into the digital autopilot (DAP) that ensures vehicle stability. Simulation studies were discussed, emphasizing their importance in addressing potential issues before launch. Shifting the focus to satellite mission design, Dr. Geetha introduced various orbit types and their applications, underlining the need for specific satellite speeds. She touched on the Aditya L1 mission, aiming to study the Sun's corona from a halo orbit at the Lagrange point.

The presentation progressed with a detailed look at Chandrayaan-1's lunar mission, including its flight path and the remarkable lunar impact. Dr. Geetha emphasized the use of the Vikram lander and Pragyan rover in Chandrayaan 2 and 3, provided mission specifics for Chandrayaan-III, and discussed the crucial last 15 minutes of its journey.

Dr. Geetha mam concluded by sharing insights into the Aditya L1 mission, external disturbances faced by spacecraft, and a nostalgic video of an old PSLV mission's liftoff.



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Mrs. Bidisha Roy mam expressed gratitude for the enlightening presentation, and a lively questionnaire session allowed the audience to engage directly with Dr. Geetha S, enriching the exploration of space and ISRO's endeavor, after which the webinar came to an end. .

The event featuring Dr. Geetha S provided students with invaluable knowledge about the intricacies of space exploration and mission design. Through her expertise, students gained insights into the challenges and complexities involved in launching and managing missions, from payload configuration to trajectory design and vehicle modelling. They learned about the critical role of the Navigation, Guidance, and Control (NGC) system, digital autopilot (DAP), and 6-D simulation studies in ensuring mission success. Dr. Geetha's presentation also expanded their understanding of satellite orbits and the importance of speed in satellite missions. Overall, the event enriched students' understanding of space science and technology, inspiring future generations of space enthusiasts.



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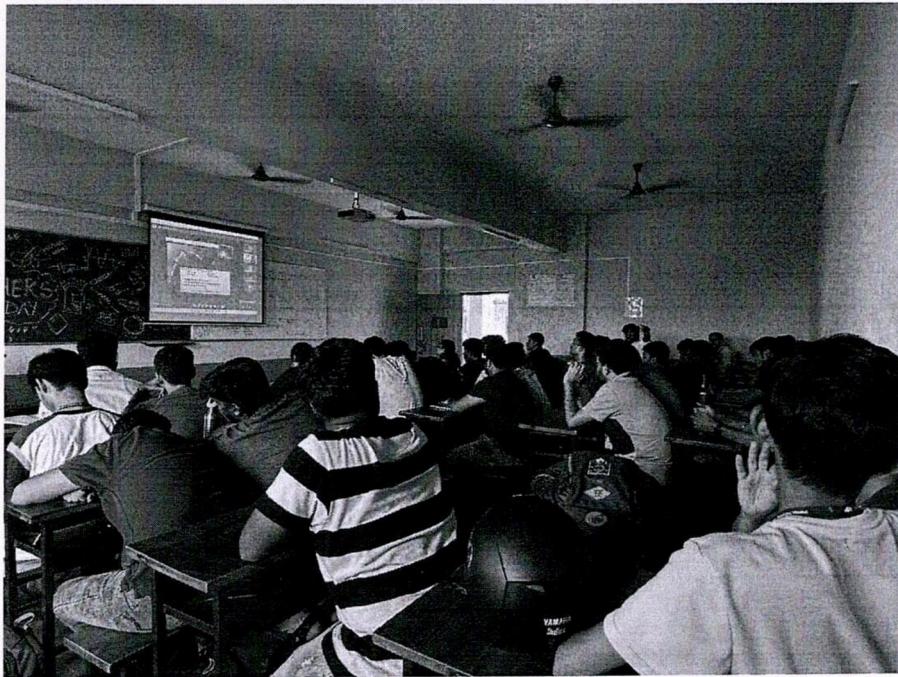
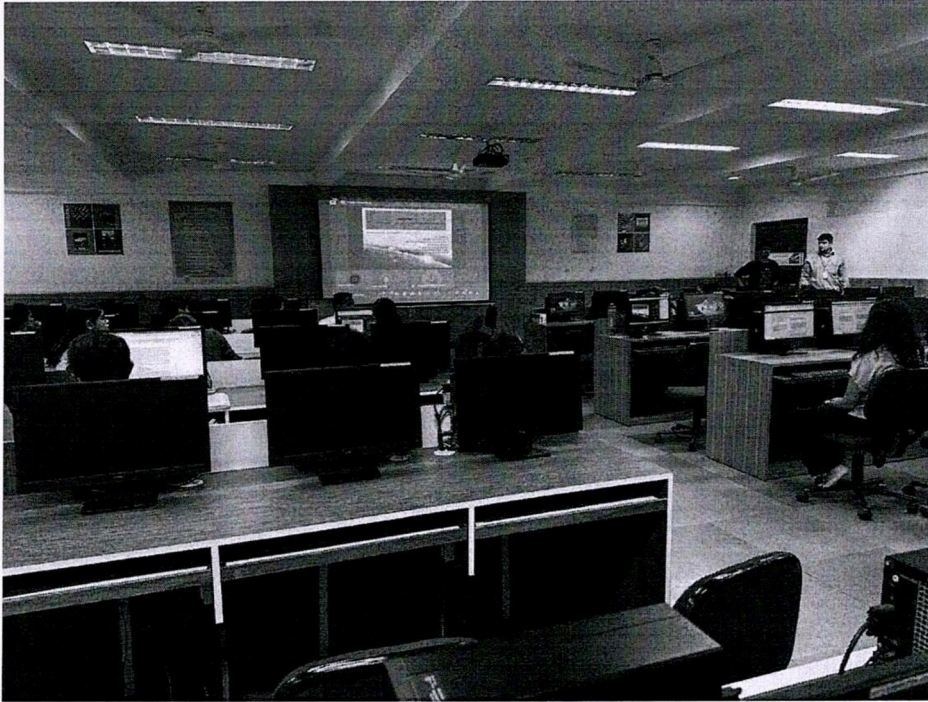
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Poster :

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We are Delighted to invite you to
**CHALLENGES IN MISSION DESIGN,
LAUNCH VEHICLE, AND SATELLITES**
*Celebrating Successful landing of Chandrayan-III in
south pole of the Moon*

📅 **13th SEPTEMBER 2023**
🕒 **3 PM Onwards**

DR. S GEETHA
Former Program Director,
Space Transportation Systems, VSSC

Report prepared by-

Mr. Adrian Anthony
Publicity Executive, IIC SFIT

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Ms. Bidisha Roy
Convenor, IIC- SFIT

Dr. Ravindra Garmode
President, IIC - SFIT



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EVENT REPORT

TEDx SFIT 2023

Date: October 22, 2023

Time: 10.00 am – 5.00 p.m.

Venue: Auditorium

Resource person: Expertise in different fields

Nature of the event: TED is a non-profit organisation devoted to Ideas Worth Spreading. Started as a four-day conference in California 30 years ago, TED has grown to support its mission with multiple initiatives. The two annual TED Conferences invite the world's leading thinkers and doers to speak for 18 minutes or less. Whereas TEDx is an independently organised TED event. The SFIT IIC/E-cell team has been conducting TEDx SFIT events for the past 3 years. This year, the event was conducted on 22nd October 2023. As per the licence, 100 tickets were sold. Attendees in the audience included students from SFIT, faculty members as well as members from the local community. A team of 72 members including faculty, E-cell members and volunteers worked meticulously to make this event a huge success.

The program commenced at 11: 30 a.m. with the college anthem. The hosts for the event, Ms. Jennessa and Ms. Ishita welcomed the speakers and attendees. A brief introductory video on TED talks was played.

The first speaker of the day, Mr. Anees Merchant, delivered a captivating talk titled "The Power of Accidents: Falling Into Opportunity." Mr. Merchant provided a fresh perspective on how the unexpected turns in our journey shape our lives.

After this, the group "Sanyukt Ly" kept the audience mesmerised with their electrifying dance, fused together by exceptional choreography and an incredible zeal for the art.

The second talk of the day was "Revving Up Ambitions: Racing Through the Ages" by Ms. Pratiksha Das. The talk drove through Ms. Das's incredible journey in the world of Motorsports. Her knowledge in the field of motorsports provided insight for the audience and her firsthand encounter with obstacles, doubters and naysayers genuinely resonated with the audience.

The lunch break commenced at 1:15 p.m.

Post lunch, a pre-recorded TED talk was played.

The third speaker of the event, Mr. Himanshu Goel painted a riveting picture with his talk, "Science Fiction to reality". He illuminated the significant strides made in the field of Science and Technology, emphasising the profound influence of science fiction on these advancements. He encouraged the audience to never stop dreaming because one day it could be our idea that turns into a reality.



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The amazing duet, by the Acoustic Aura, struck the strings of everyone's souls with their melodic and heartfelt performance.

The final speaker of the day was Ms. Sanah Moidutty. She believed in embracing our imperfections as it is what brings character to our art. Her talk, "A Musical Odyssey through Time: Sanah Moidutty's journey from a talent hunt to stardom" highlighted to the audience the need to always look to create something timeless in a world where there are no fixed formulas for life.

Finally, Mr. Jaskaran Singh, Organiser of TEDx SFIT and Ms. Eva Zacharia, Co-organiser of TEDx SFIT proposed a vote of thanks followed by an interactive Q and A session with the speakers after which the event was concluded.

TEDx SFIT 2023 Brief Introduction of Speakers

Mr. Anees Merchant, a '40 under 40' achiever in India and a Top 100 AI leader boasts a 26-year career, including roles with eClerx Services, Wipro Spectra mind, and McDonald's Corporation. As the head of Global Growth and Customer Success at Course5 Intelligence Ltd, he shapes the corporate landscape. Mr. Merchant, a digital influencer, podcaster, and published author, is an expert in AI, Technology, and future business models. His diverse interests, from motorcycling to painting, epitomise his dynamic nature. His enduring belief that unforeseen accidents aren't necessarily hurtful highlights his resilience and optimism in his remarkable journey.

Ms. Pratiksha Das, a 24-year-old Mechanical Engineer hailing from Mumbai, has embarked on a remarkable journey as an enthusiastic racer, renowned for her achievements with Super Bikes and Cars. Introduced to motorcycles at 14, she recently made history as the first Indian female to complete the BEST bus training and obtain an official licence to drive heavy vehicles. Her passion for racing led her to ride across Thailand, Malaysia, and Singapore, proudly unfurling the Indian flag at key places. Her excellence also earned her a spot in the selections for India's first female bike racing team by TVS Racing. With numerous accolades and the title of Mumbai's first track racer, Ms Pratiksha Das, known as "Racer Chick," is shattering stereotypes and continues her journey to conquer more milestones on the canvas of her achievements.

Mr Himanshu Goel, born on July 18, 1995, is a polymath with a diverse skill set. His journey began at Punjab University, Chandigarh, where he authored five captivating novels, including '52 Laws of Love' and 'IRL – In Real Life.' Today, as the co-founder of FUTR Studios, he is a trailblazer in the realm of digital innovation. FUTR Studios is the visionary company behind India's first virtual influencer, Kyra, which has left an indelible mark on the digital landscape. Join us at TEDx as Mr. Himanshu Goel shares his incredible odyssey, from a college wordsmith to a pioneer in the



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world of virtual influence, with FUTR Studios and Kyra blazing the trail. His inspirational message to all is clear: "Don't be afraid to dream."

Ms. Sanah Moidutty is a name synonymous with versatility and artistic prowess. Born with a boundless love for music, her journey as a singer and songwriter is nothing short of extraordinary. Introduced to Carnatic classical music at a young age, Ms. Sanah Moidutty took her first steps onto the stage at the age of 8 and swiftly progressed to performing professionally with orchestras. Her relentless pursuit of her passion led her through a journey of balancing music and studies, even as she remained dedicated to both. It's a journey marked by unwavering curiosity, a vivid imagination, and an ever-growing love for music. Although her academic path led her into engineering, she couldn't deny the pull of her true calling. Today, Ms. Sanah Moidutty is a celebrated artist whose artistry knows no bounds. Her story is a testament to the power of following one's heart and embracing change, inspiring many along the way.




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EVENT REPORT

Unleashing Ingenuity: Problem Solving and Ideation Workshop A Seminar Conducted by IIC-SFIT

Date: October 13, 2023

Time: 6:30 p.m. - 8:00 p.m.

Venue: Online (Live on YouTube)

Resource person: Mr. Mayur V. Parulekar

Recorded Link:

Nature of the event:

As a part of the Activities under IIC SFIT & EESA SFIT, a seminar on "Unleashing Ingenuity: Problem-Solving and Ideation Workshop". The resource person, MR. Mayur V. Parulekar – Director of Meshnet Electronics LLP. Your vast experience and expertise in cutting-edge technologies will not only enrich their knowledge but guide budding engineers towards innovative project implementation.

The seminar covered two important case studies and various aspects of problem-solving and ideation.

Case study 1: Installation of New Age Kinetic:

This case study is related to the Mechanical field, Electrical field and Art. They explained about the kind of installation and CPU- Click PLC. The significance of evaluating strengths, weaknesses, opportunities, and threats before a project.

Case study 2: Choice and Reuse of Technology - 129 Tail of the Dragon:

The session likely provided insights into how to design and implement solutions. They design a board-like modular.

The session was a big success, as all the participants showed keen interest in knowing more about the opportunities and scope. The seminar aims to provide opportunities to final-year Students, third-year students and second-year students to augment their knowledge & skills in key areas involved in Problem Solving and Ideation process. Shared his knowledge & experience on the multiple aspects and the many steps involved in problem problem-solving and ideation process. He further elaborated on good ideas vs. bad ideas and Best Student Entrepreneurship Practices that can be adopted to enhance the student's abilities in solving critical problems.


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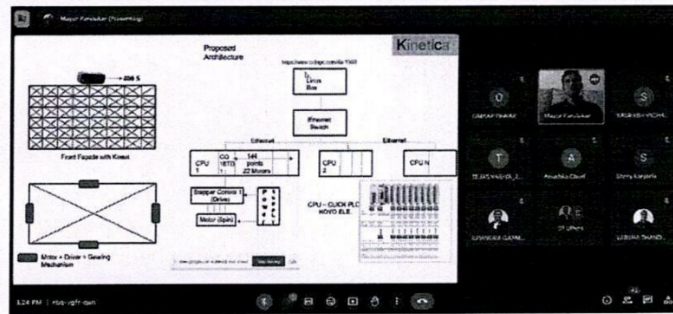
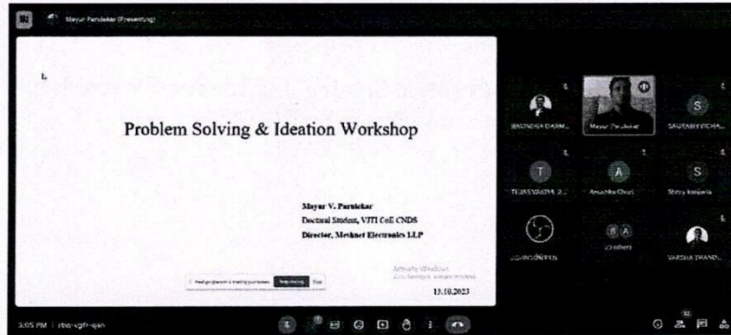
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Result:

Students understood the importance of the session and will remember the importance of the resources. The students gained hands-on experience in the Design Thinking methodology, collaborated in teams to build innovative solutions, validated their ideas, and presented their models.

Ms. Varsha T.
Faculty Coordinator, EESA


Dr. Ravindra Garmode
President, IIC - SFIT


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EVENT REPORT**Perfect Pitchers - IIC Ideathon-2023**

A Seminar Conducted by IIC-SFIT

Date: October 25, 2023**Time:** 3.00 p.m. - 5:00 p.m.**Venue:** Room No. 105**Resource person:** Dr. Vaqar Ansari and IIC faculty Members**Recorded Link:****Nature of the event:**

Perfect Pitchers is a pivotal stage within the IIC Ideathon-2023, designed to provide participating groups with a platform to pitch their innovative ideas and solutions to a panel of experts. The event aims to foster creativity, encourage problem-solving, and promote impactful initiatives that contribute to society and the environment.

During the Perfect Pitchers stage, each participating group will be allotted 5 minutes to deliver their pitch to the panel of experts. Presentations may be supported by a PowerPoint presentation, allowing teams to visually communicate their ideas effectively. Following each pitch, there will be a brief Q&A session where teams can address queries from the panel.

Evaluation Criteria:

The success of each pitch will be evaluated based on the following parameters:

Presentation Quality: The effectiveness of the presentation in conveying the content and relevance of the proposed idea.


Q&A Performance: The team's ability to respond articulately and convincingly to questions posed by the panel.

Social Impact/Contribution: The potential of the proposed idea to generate positive social or environmental impact.

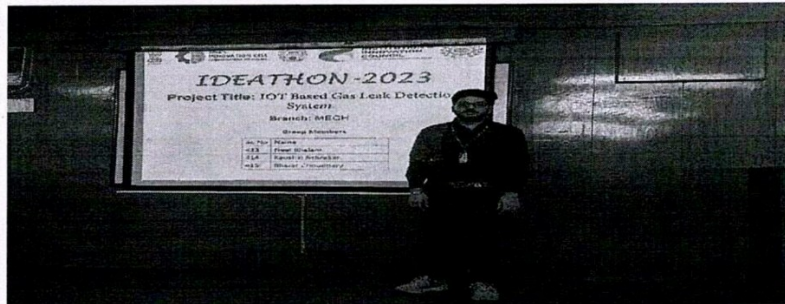
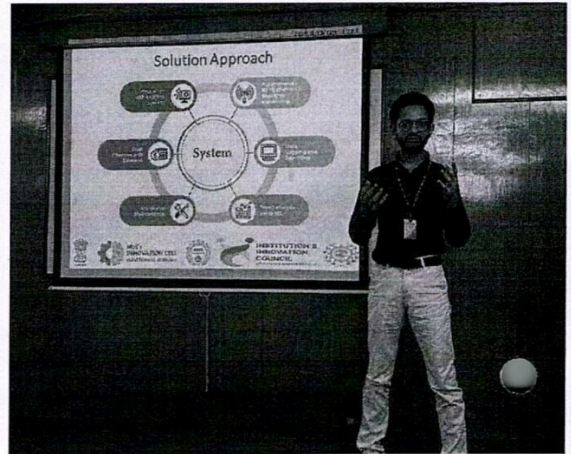
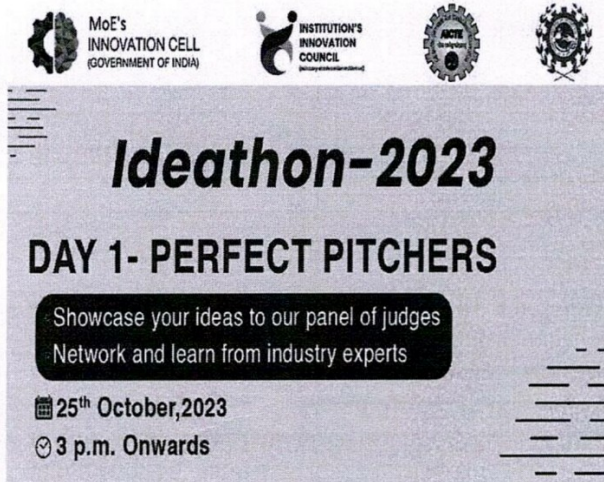
Selection Process:

After all, the pitches have been delivered, the panel of experts will select the top fifteen impressive pitchers to proceed to the next stage of the competition, known as "Idea Canvas". These teams will be tasked with presenting a poster of their idea during the subsequent stage. To aid in the preparation of their pitches, participating groups have been provided with a PowerPoint presentation template. This template serves as a guide for structuring and organizing their presentations effectively. Teams selected to proceed to the Idea Canvas stage will receive further instructions regarding the poster presentation template via WhatsApp. This will enable them to prepare for the next phase of the competition.

The Perfect Pitchers stage of the IIC Ideathon-2023 promises to be an exciting and intellectually stimulating event, offering participants a valuable opportunity to showcase their creativity and problem-solving abilities. We look forward to witnessing the innovative ideas and solutions presented by each participating group.


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Pictures:



Report prepared by

Mr. Saurabh Vichare
Faculty Member, IIC-SFIT

Ms. Divisha Roy
Convener, IIC- SFIT

Dr. Ravindra Garmode
President, IIC - SFIT

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Overview of Idea Canvas - IIC Ideathon-2023

Event Details:

Event Name: Idea Canvas - IIC Ideathon-2023

Date: 26th October 2023

Time: 03:00 pm to 05:00 pm

Venue: Main Auditorium, SFIT

Idea Canvas, the poster presentation competition Day 2 of IDEATHON-2023, hosted by SFIT IIC. Idea Canvas serves as a platform for the brightest minds of SFIT to showcase their research, creativity, and innovative ideas through visually captivating posters. It stands as a testament to the academic curiosity, ingenuity, and dedication that characterize our student community.

In Idea Canvas, we celebrated the diverse talents and intellectual pursuits of our B.E. students across all branches. From engineering to science, from technology to design, Idea Canvas encompasses a wide spectrum of topics, each representing the passion and commitment of its creators. Vibrant posters adorn the walls, each telling a unique story of exploration, discovery, and ingenuity. Engage with the presenters, delve into their projects, and gain insights into the cutting-edge research that is shaping the future.

Evaluation Criteria:

The pre-define criteria of Day 1 Perfect Pitcher of IDEATHON 2023 were employed. The success of each poster presentation will be evaluated based on the following parameters:

Presentation Quality: The effectiveness of the presentation in conveying the content and relevance of the proposed idea.

Q&A Performance: The team's ability to respond articulately and convincingly to questions posed by the panel.

Social Impact/Contribution: The potential of the proposed idea to generate positive social or environmental impact.

Selection Process:

The 15 selected groups which were selected in the previous stage, known as "Perfect Pitcher" have to present their posters in "Idea Canvas". After all the presentations, the panel of experts will select Top 3 impressive ideas based on the evaluation criteria. To aid in the presentation of their poster, participants groups have been provided with a Poster template. This template serves as a guide for structuring and organizing their presentation effectively. All of the teams presented outstanding ideas and their inventive minds produced very creative posters. The top 3 teams which stood with their amazing innovative idea were awarded amazing


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prizes as a token of recognition for their outstanding contributions. These prizes included cash awards and certificates of achievement.

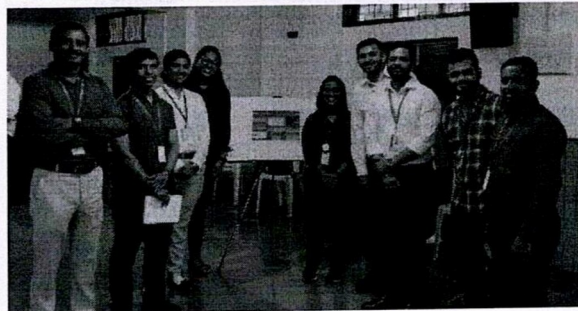
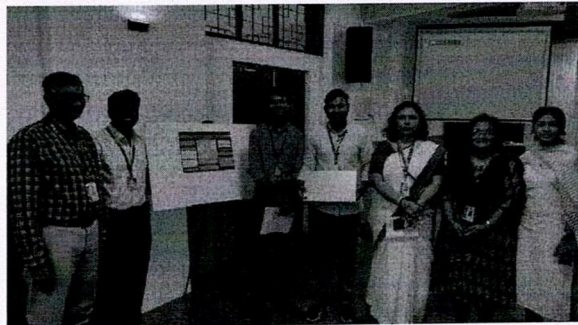
The Idea Canvas stage of IIC Ideathon-2023 promises to be an exciting event, where innovative ideas were presented and celebrated and the platform to showcase their creativity and talent. We look forward to witnessing the innovative ideas and solutions presented by each participating group to the Idea Canvas stage.

Pictures:

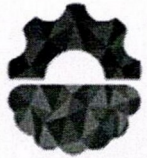


DAY -2:
26th
October 2023

2 p.m.
Onwards
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IIC-SFIT

Events for Odd Semester A. Y. 2023-24

Sr. No.	Proposed Event	Type of Event	Mode	Resource person	Proposed Dates (Day)	In-charge
1	Workshop on "Entrepreneurship and Innovation" as Career Opportunity: Start Up Saturday	IIC Calendar Event (Q1)	Online	Dr. Prachi Raut, HOD-IT, SFIT Mumbai	Saturday, September 2nd, 2023	Ms. Bidisha Roy Ms. Snehal Kulkarni
2	My Story – Motivational Session by Entrepreneur/ founder Demystifying Artificial Intelligence - Unnati	IIC Calendar Event (Q1)	Offline	Mr. Vishak Pratap Co-founder and CMO of Tech-Valley	Tuesday, September 12th, 2023	Ms. Snehal Kulkarni Mr. Saurabh Vichare
3	My Story – Motivational Session by Successful Innovators: "Challenges in Mission Design, Launch Vehicle, and Satellites"	IIC Calendar Event (Q1)	Online	Dr. S Geetha, Director of Control Systems, Skyroot Aerospace Private Limited, Hyderabad	Wednesday, September 13th, 2023	Dr. Adli Sheikh Mr. Omkar Pawar Ms. Arti Bhatnagar
4	TEDx is an independently organized TED event: TEDx	IIC Independent Event	Offline	Four no.	Sunday, October 22nd, 2023	Dr. Ravindra Garmode Ms. Snehal Kulkarni Ms. Chinnmayee Bhanage

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Sr. No.	Proposed Event	Type of Event	Mode	Resource person	Proposed Dates (Day)	In-charge
5	Session on Problem Solving and Ideation Workshop	IIC Calendar Event (Q1)	Online	Mr. Mayur V. Parulekar	Friday, October 13th, 2023	Dr. Adli Sheikh Mr. Omkar Pawar
6	Organize an Inter/Intra Institutional Idea competition/Challenge/Hackathon and reward Best Ideas: Intra Institutional Idea Competition- "Perfect Pitcher"	IIC Calendar Event (Q1)	Offline	IIC Members	Thursday, October 25th, 2023	Dr. Adli Sheikh Mr. SaurabhVichare
7	Mentoring event: Demo Day/Exhibition/Poster Presentation of Ideas/Poc & linkages with Innovation Ambassadors/Experts for Mentorship Support: "Poster Presentation of Ideas: Idea Canvas under Ideathon-2023"	IIC Calendar Event (Q1)	Offline	Dr. Vagar Ansari and IIC Members	Friday, October 26th, 2023	Dr. Adli Sheikh Mr. Omkar Pawar Ms. Akanksha Naik

Ms. Bidisha Roy
Convener, IIC- SFTT

Dr. Ravindra Garmode
President, IIC - SFTT

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ROBOCON and E-YANTRA

Aug 27, 2024

A Report on DD ROBOCON 2024

ABU Robocon 2024 was hosted by Quảng Ninh, Vietnam. Drawing inspiration from cultivation on terraced fields in Vietnam, ABU developed robot tasks that depict the stages of rice cultivation. These tasks include sowing, harvesting, and transporting the harvested grains to the warehouse. Hence, the theme was called Harvest Day. IITD (Indian Institute of Technology, Delhi) hosted the event at Thyagaraj Stadium, New Delhi.

Theme Overview:

Every participating team must develop two robots compulsorily, namely Robot 1 (R1) and Robot 2 (R2), the game was to be played in 3 minutes.


Robot 1: Can be either manual or semi-automatic.

Robot 2: Compulsorily Automated.

The arena consisted of 3 areas. Area1 consisted of 12 Saplings placed in a fixed Seedling Rack and the Planting zone where the saplings were to be placed. Area2 consisted of 12 balls including 6 Paddy Rice (Red or Blue balls) and 6 Empty Grain (Purple balls) placed in the Harvesting zone. These grains were to be transported to the Storage zone in Area3 from Area2 in a sequential manner mentioned in the rulebook. In both these areas, both R1 and R2 were allowed to perform tasks. In Area3 only R2 was allowed to enter. 6 Paddy Rice and 10 Empty Grain were placed in the Storage Zone. The Silos 5 were placed in the centre of the Area3 arena. Only the paddy rice is to be collected and placed one at a time (changed in the rulebook many days later) in the Silos in the Silo zone by R2. To go from Area1 to Area2 there was a slope of 10 degrees and same to go from Area2 to Area3.

Ball Dimensions: 190 mm \pm 5% (Size 3)

Ball weight: 300-350 gram


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Event Dates:

Dates	Content
Jan 31, 2024	Design Documentation Submission
Feb 17, 2024	Shortlisting of Stage 1
April 15, 2024	Proof of concept
May 15, 2024	Shortlisting of Stage 2
13-14 July 2024	Stage 3 National DD Robocon

Results:

Stage	Points	Comments
1	99/100	Top 10 score
2	84/100	Top 20 score
3	50	-

R1:

Robot 1 was designed to perform tasks in both Area1 and Area2.

New Findings and Issues:

1. All communication was shifted from I2C to SPI for faster and garbage free data transfer, for this we used EspS3(master) and EspS2(slave).
2. Extension mechanism for picking up 8 seedlings at once whilst keeping the bot in the appropriate dimensions was made using gantry plate, pulley-belt and v-wheels, components inspired from the CNC machinery. This was later removed from the bot due to unbalanced weight distribution.



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3. 3D printed grippers in integration with pneumatic cylinders were made to reduce the number of motors and balance out the power drained by the stepper motors.
4. For locomotion, we bought motors and separate universal encoders and soldered them ourselves, due to the rugged continuous motion of the bot, the encoders got loose at the end.
5. Antennas were used to increase the range of the PS4 controller.

We faced major issue in Delhi as the shooting mechanism was prepared and practised using a ball of size exactly 190mm and during one of the test matches we realised that the ball used at the stadium was quite bigger(210mm) and the perfectly working mechanism didn't work there even after alterations were made at the last moment.

R2:

Robot 2 was designed to perform only 1 task in Area3. As the bot was fully automated most of the things used were for the first time without prior knowledge.

New Findings and Issues:


1. RPi 4(Raspberry Pi) was initially used as the main processor for R2 but then a team members laptop was put on the robot for the ease of use.
2. LSA08 were mounted on the base frame also integrating colour sensors (as there was colour difference between all 3 areas of the arena) to travel from Area1 to Area3 and then in Area3 they were put off.
3. In Area3 ML was loaded with the help of camera mounted on the motor of the arm (colour detection of balls and distancing), and the laptop. The database for ML was created using a DSLR.
4. The same pneumatic gripper used in R1 was used here, the arm was designed in such a way that the bot doesn't have to rotate, hence, saving time and also lesser chances to slip while rotating on the slope present in Area3.
5. IMU sensors were used on the arm to reverse engineer the balls position from the gripper.


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Participating in DD Robocon was an invaluable learning experience, allowing us to connect with other teams and exchange insights, challenges, and experiences we encountered throughout the robot-building process. It helped us to increase the connectivity across institutes across India. It was a great experience to lead the team as it was the first time an automated bot was to be made, quite challenging even when the theme was easier as compared to last year. A lot of research was put into the bots. I hope the research passes on to upcoming team members.

Team Robotics and Automation Wing 2024 thank everyone for their involvement and support to the team. We were grateful to have seniors and alumni to hold our back in tough times. We are also grateful to all the college HODs that came in and helped us with our problems during the 2nd Stage submission. In RAW, a total 13 student members were involved from different departments. The support from St. Francis Institute of Technology was greatly appreciated with team mentor Dr. Ravindra Chaudhari and team Advisor Dr. Sincy Geroge was very much involved and motivated throughout the event.

We specially thank The Director, Bro. Shantilal Kujur for his immense support throughout the year. Without his support, we would not be able to get such an immense learning experience and learn from it.


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Team Members:

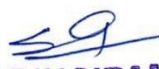
[1]	Purva Shete	TE EXTC
[2]	Prachi Mandadkar	TE ELEC
[3]	Jerin John	TE INFT
[4]	Priya Jain	TE INFT
[5]	Deekshita Donthula	TE EXTC
[6]	Omkar More	TE ELEC
[7]	Divyanshu Modi	SE ELEC
[8]	Hrushikesh Auti	SE EXTC
[9]	Isha Parte	SE EXTC
[10]	Shreehari Punna	SE EXTC
[11]	Vaishnavi Gaikwad	SE EXTC
[12]	Yash Dube	SE EXTC
[13]	Yash Pathak	SE EXTC

Prepared by,

Verified by,

Purva Shete
(CRC 2024, Team RAW)

Dr. Ravindra Chaudhari
(Convener, Team RAW)


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Report on e-Yantra 2024

e-Yantra is a robotics outreach program hosted by IITB (Indian Institute of Technology, Bombay). It is a competition for the undergraduates from all over India and this year the competition was also hosted worldwide.

This competition provides a variety of different themes across various technical domains which help in the application of different industries such as agriculture, manufacturing, defense, home, smart-city maintenance and service industries.

Theme Overview

Every participating team had to select a theme as per their choice and were provided with the prerequisites required for tasks which were provided in the later stages of the competition.

There were 6 themes for the competition each with a different learning:

- 1) Cosmos Logistic– Robotics Operating System (ROS)
- 2) Geo Guide – Image Processing, Path planning
- 3) AstroThinker Bot – FPGA
- 4) Lunar Scout–Robot Simulation (CoppeliaSim), Control systems
- 5) Luminosity Drone – Drone Simulation, Image processing, Control systems
- 6) Holglyph Bot – CAD modelling, Hardware fabrication

Every team was given a time of 2-3 weeks to learn the skills required for the selected theme along with online doubt solving session on zoom. In order to test the acquired skills various tasks were provided during the learning process of the competition.

We participated in the competition in two teams selecting two different themes from the competition.

These were the following teams that participates in the competition along with their themes:

Team 1: Cosmo Logistics

Team Members:

1. Devasia Joel
2. Remedios Aaron
3. Wadekar Gauresh

The "Cosmo Logistics" theme of eYRC 2023-24 simulated a futuristic inter-planetary logistics system within a space station warehouse. Our task was to design a robotic

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system where a mobile robot and a robotic arm collaborate to autonomously sort and prepare packages for dispatch to various planetary locations. Our primary goal was to develop algorithms enabling autonomous navigation, detection, and manipulation to streamline logistics operations in this simulated space warehouse.

Achievements:

We successfully completed Tasks 1, 2, and 3, progressing through each stage and ultimately **winning the final e-Yantra 2023-24 Cosmo Logistics theme**. Each task brought unique challenges and helped us strengthen our robotics skills:

- Task 1: We implemented SLAM (Simultaneous Localization and Mapping) to navigate the mobile robot in a warehouse environment autonomously. By mapping its surroundings in real-time, the robot could locate and approach storage racks for package handling.
- Task 2: We tackled package detection and localization, enabling the robot to identify specific packages placed on racks. This step prepared the system for precise pick-and-place actions.
- Task 3: We focused on robotic arm manipulation with RViz and Gazebo. Using RViz as our visualization tool, we simulated the arm's movements, optimizing control for accurate picking and sorting. In Gazebo, we simulated the entire warehouse environment, allowing us to test the full robot setup in a realistic 3D space. Gazebo provided crucial insights, enabling us to refine our code and improve the robot's interactions within the environment.

Key Learnings and Insights:

1. Mastery of ROS, SLAM, RViz, and Gazebo: Our team gained in-depth knowledge of ROS (Robot Operating System), SLAM, RViz, and Gazebo. Together, these tools allowed us to control and visualize robotic movement and manipulate the robotic arm within a simulated environment.
2. Experience with Linux and Gazebo Simulation: Working in Linux and using Gazebo helped us get comfortable with real-world simulation and troubleshooting techniques. Gazebo's realistic 3D models allowed us to optimize our system before real-world implementation, improving our confidence in robotic navigation and control.

Team 2: GeoGuide

Team Members:

- 1) Priya Jain


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- 2) Omkar More
- 3) Yash Pathak
- 4) Yash Dubey

The "GeoGuide" theme of eYRC 2023-24 introduces "Vanguard," an advanced robotic vehicle designed to navigate a war-torn arena. Guided by the static drone Watchtower, which is equipped with machine learning algorithms, Vanguard must skillfully avoid danger zones and adapt to unpredictable alien attacks. The Watchtower provides real-time event detection, allowing Vanguard to coordinate with the command center and strategize against invaders using geo referencing techniques.

The core challenge lies in creating an autonomous robot capable of navigating an arena with guidance from an overhead camera, simulating real-world scenarios and hazards. Participants in this theme work on constructing the Vanguard robot using the ESP32 microcontroller, exploring image processing, machine learning, and wireless communication.

Our team successfully completed stages 1 to 5 of the "GeoGuide" theme, navigating through both the simulation and hardware stages of the competition. However, we were eliminated in stage 6 and did not make it to stage 7, the last stage of the competition.

New Findings and issues:


- 1) We learnt various algorithms to train the model.
- 2) Ways to design shortest path algorithms.
- 3) We were unable to interface line following properly using the IR sensors, which was the main reason for our disqualification.

Team 3: Cosmo Logistic

Team Members:

- 1) Jerin John
- 2) Deekshita Donthula
- 3) Divyanshu Modi
- 4) Isha Parte

The "Cosmo Logistic" theme of eYRC 2023-24 is set in a warehouse used for inter-planet logistics from a space station. A robotic arm and mobile robot collaborate to sort and prepare packages to be transported to different planets. In this theme, teams developed an algorithm for sorting packages autonomously with the help of a robotic arm and mobile robot. Teams learnt to navigate this mobile robot with the help of SLAM (simultaneous localization and mapping) method in a warehouse, detect and localize the packages placed on racks, and manipulate the robotic arm to pick them.


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We successfully completed task 0 and task 1, where we learned to navigate the mobile robot using SLAM.

Unfortunately, during task 2 of stage 1, we encountered technical difficulties, which prevented us from completing the task. As a result, we were disqualified from the competition at that stage.

New Findings and issues:

- 1) This year we got to learn 2 new things from this competition i.e. ROS and SLAM
- 2) ROS helped us in getting used to the Linux OS and learning how to control a robot on gazebo. ROS was a new learning which will help in all round development of our team.

Participating in e-Yantra 2024 was an immense learning experience and we got to talk to other teams and understand learning findings and experiences. It also helped us expand our connectivity with other institutes and technical teams all over India.

Prepared by,

Purva Shete
(CRC Team RAW 2024)


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Team Tejas and Gatee

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Team DetailsName of the student team: **SFIT Tejas**Name of faculty in-charge: **Mr. Magesh Nadar**Number of student Members: **37****List of student chapter council members:**

Sr. No	Name of Student	Designation	Name of Department
1.	Manad Raut	Captain-Team Airplane	TE-MECH
2.	Manav Sharma	Captain-Team Drone	TE-CMPN
3.	Prashant Vanjare	Vice-Captain	TE-CMPN
4.	Rahul Kumar Yadav	Team Manager	TE-ELEC
5.	Meet Patel	Student Advisor	BE-CMPN
6.	Kazi Tausif Ahmed	Avionics Head	TE-ELEC
7.	Pranit Narsule	Fabrication Head	TE-EXTC
8.	Adrian Dsouza	Design Head	TE-MECH
9.	Heramb Kiran Dalvi	Marketing Head	TE- ELEC
10.	Mitesh Mahendra Vaktana	Graphics Head	TE-ELEC
11.	Siddhi Ratnadeep kadam	Design Executive	TE-ELEC
12.	Het Dedhia	Design Executive	SE-MECH
13.	Sayed Wali Rizvi	Design Executive	SE-MECH
14.	Harsh Chavan	Design Executive	SE-EXTC
15.	Meghana Sanjay Yewle	Design Executive	SE-EXTC
16.	Stevo Benny	Design Executive	SE-CMPN
17.	Ashutosh Hatkar	Avionics Executive	TE-ELEC
18.	Om Hindurao Sardesai	Avionics Executive	TE-ELEC
19.	Suraj Chaurasiya	Avionics Executive	TE-ELEC
20.	Prathamesh Kalsekar	Avionics Executive	SE-ELEC
21.	Roshit Jain	Avionics Executive	SE-ELEC
22.	Abhishek Jayaraj	Avionics Executive	SE-EXTC
23.	Roshan Kumar Sahu	Avionics Executive	SE-EXTC
24.	Surabhi Dipak Pawar	Avionics Executive	SE-EXTC
25.	Tanish Palkar	Avionics Executive	SE-EXTC


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26.	Yohan Dsouza	Avionics Executive	SE-CMPN
27.	Pratik Gamare	Fabrication Executive	TE-ELEC
28.	Yash Anil Hodabe	Fabrication Executive	TE-ELEC
29.	Dhruv Karde	Fabrication Executive	SE-ELEC
30.	Utkarsh Prajapati	Fabrication Executive	SE-ELEC
31.	Nitish Bari	Fabrication Executive	SE-EXTC
32.	Siddhesh Newrekar	Fabrication Executive	SE-EXTC
33.	Vaishnavi Choudhari	Fabrication Executive	SE-MECH
34.	Rameshwar Pandey	Marketing & Graphics Executive	SE-ELEC
35.	Austin Cherian	Marketing & Graphics Executive	SE-CMPN
36.	Jason Dsouza	Marketing & Graphics Executive	SE-CMPN
37.	Sheldon Chetty	Marketing & Graphics Executive	SE-CMPN

Competition Summary

Previous Competition:	<p>1. Drone Development Challenge Report (Fixed wing Aircraft) Organized By: SAEINDA Southern Section Report submission: 31st March 2023 Finals: 21st – 23rd July 2023 in Chennai Achievement: 3rd place in Best Aerodynamic Analysis (CFD) 5th place in overall competition</p> <p>2. AeroTHON 2023 (Drone Competition) Organized By: SAEINDA Phase 1-Presentation: 22nd June 2023 in Bengaluru Phase 2-Physical prototype build & Fly: 17th – 18th November 2023 in Bengaluru Achievement: 4th place in Phase-I Design and Technical Presentation & 12th place in the overall competition.</p>
Present Competition-1:	2nd Edition of Drone Development Competition (DDC) 2024 organized by SAE India Southern section at the National Level in April 2024 (Tentative).

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About DDC:	The competition is intended to provide Bachelor / Master / Diploma students with a real-life engineering challenge. It has been designed to provide exposure to the kinds of situations that engineers face in their real-life work environment. Each team is required to conceive, design and develop a prototype of fixed wing UAV meeting the mission requirements. First and foremost a design competition, students will find themselves performing trade studies and making compromises to arrive at a design solution that will optimally meet the mission requirements while still conforming to the configuration limitations. There are two parts to each competition, each with their own series of events. These parts are known as Static and Dynamic Events. The events award the team points towards a grand total. The team with the greatest total wins the competition overall. Some events, such as tech inspection, award no points but are required in order to proceed to other events for safety reasons.
Event Timeline:	Workshop: 5 th – 16 th January 2024 in Chennai Report submission: 19 th Feb 2024 Finals: April 2024 (tentative) in Chennai
Amount Sanctioned:	Rs. 2,85,660/-
Present Competition-2:	AeroTHON2024
About AeroTHON:	SAEINDIA Aerospace Forum is organizing AeroTHON 2024 which will be the 4th edition of the competition for students. The primary focus of the competition will be on developing design, build and piloting skills of Uncrewed Aircraft System (UAS) to prepare them industry ready for the emerging market. As part of AeroTHON 2024, students undertake a full design and build cycle of an Uncrewed aerial vehicle meeting specific mission requirements, culminating in a final fly-off event.
Event Timeline:	Phase – 1: Design Report submission by students: June 2024 (Tentative)


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	Phase 1: Presentation submission: June 2024 Students present designs to Judges (industry and academic experts): June 2024 Phase - 2: Physical prototype build: July 2024 – Nov 2024 Phase - 2: Physical prototype inspection & Flying: Nov 2024 Phase - 2: Flying: Nov 2024
Amount Sanctioned:	1,91,840/-
Budget Head:	Under Institute Research and Development Funds

Information Brochure



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Our Story

Our team participated in Aero Design and Fly Competition in 2020 and were recognised with an LOR. In 2022 we participated in SAE Aero Design competition which was held in USA. We physically couldn't make it for the competition due to certain Visa issues but our efforts paid off and we achieved results in the form of the aircraft we fabricated. Adding a feather to it we have recently participated and presented ourselves in SAE ADC ISS SOUTHERN SECTION

VISION

A freshly formed team of young enthusiasts, we at Tejas aspire to not a mark in globally acclaimed aerodynamic competitions; we aim to emerge as winning contenders, creating a legacy for future generations to carry ahead, carry higher.

ACHIEVEMENTS

- ✈ Secured 1st Rank in Design Report in SAEISS ADC 2022
- ✈ Overall secured 11th Rank nationally in SAEISS ADC 2022
- ✈ Received an LOR from the competition organizer at Aero Design and Fly (2020-21)
- ✈ Secured 9th Rank globally in Presentation in SAE ADW 2022
- ✈ Secured 22nd Rank globally in Report in SAE ADW 2022
- ✈ Overall secured 18th Rank globally at SAE ADW 2022


OBJECTIVE

- ✈ Collaborating as a team
- ✈ Competing with students from all over the world.
- ✈ Design, build and test the performance of a real aircraft.
- ✈ Adhering to industry rules and regulations

CONTACT US

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Team Gatee SFIT

Activity Report

Our Team Gatee SFIT recently represented St. Francis Institute of Technology (Engineering College) in the **11th Go-Kart Design Challenge** organized by ISNEE Motorsports at Coimbatore from February 15 to February 19, 2024. The team was led by Mr. Shivam Toraskar, managed by Mr. Aaron Fernandes and accompanied by Mr. Harish Arekar and Mr. Sachin Lakade. Our Team Gatee Secured an **AIR 3** in the Overall Competition.

The detailed performance of our students in the various categories is tabulated below:

Round No.	Name of Category	Points Scored
1.	Business Plan Presentation	34
2.	Cost Report Presentation	54
3.	Engineering Design Report	74.25
4.	Disassembly-Assembly	56.19
5.	Acceleration	70.96
6.	Skid-Pas	61.97
7.	Autocross	93.05
8.	Endurance R1	100.87
9.	Endurance R2	5
	Overall	550.29



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Our staff and students got equal appreciation at the competition as they were awarded with special prizes listed below:

Sr. No	Name of Staff/Student	Awarded in the Category
1.	Mr. Harish Arekar/Mr. Sachn Lakade	Best Faculty Advisor
2.	Ms. Sibony/Ms. Adelle	Best Female Participant
3.	Mr. Yashraj Mahimkar	Best Sportsman
4.	Team Gatee SFIT	Cleanest Pit



Dalal

Mr. Yunus Dalal
Faculty Advisor

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