



Agnel Charities'
**F.R. C. RODRIGUES INSTITUTE OF
TECHNOLOGY, VASHI**
Department of Electrical Engineering

B&DAZZLE

**Electrical Engineering
Students Association (EESA)
2023-24**



HOD's Message



Dear students,

A student association's main goals are to improve the abilities and knowledge of its members while giving students a chance to exercise leadership through planning events. Every year, for the benefit of electrical students, the Electrical Engineering Students Association (EESA) organizes a variety of activities, both technical and non-technical. The Electrical Engineering Students Association (EESA) at Fr. C. Rodrigues Institute of Technology (FCRIT), Vashi, fosters a vibrant community for aspiring electrical engineers through academic and professional development activities. EESA contributes to societal needs by organizing community outreach programs and sustainable energy projects that address real-world challenges. The entire development of students is aided by these activities. EESA publishes a magazine that provides a platform for our students to express their talent in order to foster their creative side. I send my warmest congratulations to the EESA council on its successful tenure conclusion.

**-Dr.Bindu S.
HOD
Electrical Department**

EESA Convener



Dear Students and Readers,

Welcome to the latest edition of our Electrical Engineering Student Association Magazine! It fills me with immense pride to see the creative and intellectual efforts of our student body reflected within these pages. This magazine is more than just a collection of articles and artwork; it is a showcase of the diverse talents, voices, and perspectives that make our committee so unique. Over the past year, we have faced numerous challenges and celebrated many successes. Through it all, our student community has demonstrated resilience, innovation, and a deep commitment to making our campus a vibrant and inclusive space. This publication is a testament to that spirit. Inside this issue, you will find a variety of content that captures the essence of our experiences and aspirations. From insightful articles to creative event highlights, each contribution tells a part of our collective story. I would like to express my deepest gratitude to everyone who contributed to this magazine. Your hard work, creativity, and dedication have made this edition possible. Special thanks to the editorial team for their relentless effort in bringing this project to fruition. As you read through this magazine, I hope you find inspiration, joy, and a sense of belonging. Let these stories remind us of the incredible community we are a part of and the limitless possibilities that lie ahead.

Thank you for your ongoing support and involvement with the Student Association. Together, we are creating a legacy of excellence and community spirit.

Warm regards,
Mrs. Nikita Jadhav
Convener, Electrical Engineering Students Association
Happy reading!

Table of Contents

- Electrical Engineering at FCRIT
- Vision and Mission of the Institute
- Vision and Mission of Department
- Staff Publications
- Staff and Student Achievements
- Events under EESA
- Student's Corner
- Placement and IVs
- Committee Members

Electrical Engineering

At FCRIT

Electricity has been a subject of scientific interest since at least the 17th century and hence is considered one of the oldest branches of engineering. The students are taught to design, analyze, implement, and operate electrical and electronic systems efficiently, thus opening the doors to new challenges. In this aspect, the students are given in-depth knowledge of Machines, Power Systems, Control Systems, Signal Processing, Drives, Power Electronics, Microprocessors, Switched Mode Power Supplies and allied software. To impart this, we have well-qualified, experienced, dedicated staff and excellent infrastructure in the department.



Vision & Mission of the Institute

Vision

To evolve and flourish as a progressive centre for modern technical education, stirring creativity in every student leading to self-sustainable professionals, through holistic development; nurtured by strength and legitimate pride of Indian values and ethics.

Mission

- To provide industry oriented quality education.
- To provide a holistic environment for overall personality development.
- To foster relationships with other institutes of repute, alumni and industry.

Vision and Mission of Electrical Engineering Department

Vision

To evolve as a progressive centre for modern technical education in the field of Electrical Engineering to produce self sustainable professionals through value based education.

Mission

- **To provide modern technical education in the area of Electrical Engineering.**
- **To collaborate with industries and institutes of repute to grow progressively.**
- **To provide holistic environment for the development of socially responsible citizens.**

PEO & PSO of Electrical Engineering Department

Program Educational Objective (PEO)

Graduates will be able to...

- **Demonstrate core competency in the areas of power system, power electronics, machines, renewable energy and allied disciplines.**
- **Contribute to environmental sustainability through design, development and commissioning of green energy or clean energy systems.**
- **Excel in professional career and higher education with ethical values.**

PEO & PSO of Electrical Engineering Department

Program Specific Objective (PSO)

Graduates will be able to...

- **Comprehend and analyze the problems in power generation, transmission and distribution systems.**
- **Acquire technical knowledge, skill and competency in development of Renewable energy system and contribute to energy efficiency.**

Staff Publications

Conference Publications

1. Sreedevi S Nair, Dr, Mini Rajeev, "A Novel High Gain Non-Isolated Three-port Converter for Stand-Alone PV Applications", International Conference on Computer, Electronics and Electrical Engineering and their Applications.
2. Rishabh Mhatre, Komal Patil, Shivani Sharma, Dr. Mini Rajeev, "Power Factor Improvement using PWM Rectifier in Shrink Fitting", 2023 IEEE 2nd International Conference on Industrial Electronics: Developments & Applications (ICIDeA), 29-30 September 2023, <https://doi.org/10.1109/ICIDeA59866.2023.10295198>.
3. Aniruddha Ray, Dr. Bindu S, "Issues and Solution of Distance Protection of Grid Integrated with Solar PV Plants", 2023 IEEE 2nd International Conference on Industrial Electronics: Developments & Applications (ICIDeA), 29-30 Sept. 2023, <https://doi.org/10.1109/ICIDeA59866.2023.10295210>.
4. Sarthak Varma, Abhishek Shiwalkar, "Non-Contact Voltage with Electrostatic Polarity Detector", 2023 World Conference on Communication & Computing (WCONF), 14-16 July 2023, <https://doi.org/10.1109/WCONF58270.2023.10235014>.
5. Dr. Mahendra Rane, "Dynamic Phasor Modelling of Quad Boost Converter", 2023 World Conference on Communication & Computing (WCONF), 14-16 July 2023, <https://doi.org/10.1109/WCONF58270.2023.10235123>.
6. Rupali Saha, Bindu S, Ruchi Harchandani, "Cockcroft-Walton Voltage Multiplier Based High Gain DC-DC converter as DC Source for Impulse Load", 2023 World Conference on Communication & Computing (WCONF), 14-16 July 2023, <https://doi.org/10.1109/WCONF58270.2023.10235205>.
7. Saurabh Kaduskar, Anubhav Panda, Pratim Parab, Mohit Rajput, Bindu R, "Performance Analysis of Outer Rotor Induction Hub Motors for Electric Vehicles", 2024 3rd International conference on Power Electronics and IoT Applications in Renewable Energy and its Control (PARC), 23-24 February 2024, <https://doi.org/10.1109/PARC59193.2024.10486345>.

8. Saurabh Kaduskar, Anubhav Panda, Pratim Parab, Mohit Rajput, Himanshu Patil, Sarthak Varma, Bindu R, "Revolutionizing Aviation and EV Industries: Advancements in Axial Flux Motors for Electric Propulsion Systems with ANSYS Electronics", 2024 IEEE 9th International Conference for Convergence in Technology (I2CT), 05-07 April 2024, <https://doi.org/10.1109/I2CT61223.2024.10543862>.

9. Mahendra Rane, Abhishek Shiwalkar, Rashmi Kale, "Design and Develop Scalar Control for Solar Water Pumping System", International Conference on Advance Technology and Management 2024

Journal Publications

1. M. Kiruthika and Bindu S., " A Security enabled real time fault detection and classification of power system conditions ", International Journal of Advanced Technology and Engineering Exploration (IJATEE), ISSN (Print):2394-5443 ISSN (Online):2394-7454, Volume-10 Issue-107, 2023, <https://accentsjournals.org/paperInfo.php?journalPaperId=1587&countPaper=623>.

2. Etikala Raja Vikram Reddy, Dr. Sushil Thale , "A Novel Efficient Dual-Gate Mixed Dilated Convolution Network for Multi-Scale Pedestrian Detection", Engineering Technology and Applied Science Research (ETASR), Volume 13, Issue 6, Pages 11973-11979, December 2023, <https://doi.org/10.48084/etasr.6340>.

3. Anand Unnikrishnan, Anto Sen, Astitva Anant, Ahmed Uzair, Ruchi Harchandani , "Keypad and Smart Phone Based Digital Door Lock", International Journal of Applied Engineering and Technology (IJAET), Volume 5 No 4, December 2023, ISSN: 2633-4828, <https://romanpub.com/resources/ijaet20v5-4-2023-75.pdf>.

4. Mini K Namboothiripad, "Analyzing the Impact of Discretization Techniques on Real Time Simulation of DC Servo Motor using FPGA", International Journal of Computing and Digital Systems (IJCDS), Volume 15, Issue 1, ISSN: 2210-142X, Date: 15-03-2024, <http://dx.doi.org/10.12785/ijcnds/1501103>

Staff Achievements

Sr.No	Achievement	Year
1	Dr.Bindu S awarded with "IEI NMLC FCRIT Award for Academic Excellence HOD"	SH23
2	Dr.Sushil Thale awarded with "IEI NMLC FCRIT Award for Academic Excellence-Teaching Faculty"	SH23
3	PhD Completion of candidate guided by department.	SH23
4	Best Paper Award to Dr.Mahendra Rane, Rashmi Kale, and Abhishek Shiwalkar for paper presentation at International Conference.	FH24

Students' Achievements

Sr.No	Achievement	Year
1	First Prize (Member of the winning team) at Intercollegiate Football Tournament Thane Zone under University of Mumbai. Student Name: Mr. Shubham Kushwaha	SH23
2	Best Technical Presentation Third Prize at 8th SAEINDIA Southern Section Drone Development Challenge 2023. Student Name: Mr. Sarthak Varma, Jayesh Oturkar	SH23
3	Winner: SAEINDIA Southern Section Autonomous Drone Development Competition (ADDC) – 2023. Student Names: Mr. Saurabh Kaduskar (Team Captain) Mr. Pratim Parab (Avionics Head) Mr. Anubhav Panda (Technical Head) Mr. Mohit Rajput (Testing Head) Mr. Sarthak Varma	SH23
4	Winner: (Member of Winning Team) at Intercollegiate Basketball Tournament 2023-24 Thane Zone under University of Mumbai. Student Name: Mr. Shivam Prasad	SH23
5	Third Prize: (Member of the Team) at Inter Zonal Basketball Tournament 23-24 organized by University of Mumbai. Student Name: Mr. Shivam Prasad	SH23

Sr.No	Achievement	Year
6	Two groups from TE and BE Electrical won the Zonal Round Competition on IoT organized by IIT-Varanasi and qualified for the final round to be conducted at IIT Varanasi during Technex 2024 on 17th March 2024	SH23
7	First prize for Project Poster Presentation Competition at FCRIT Vashi Project Title: Power sharing control for Battery and UC based Hybrid Electric source for EV application. Students: Anamika Sharma, Piyush Khaire, Siddhesh Deshmukh, Dhanashree Talele	FH24
8	Second prize for Project Poster Presentation Competition at FCRIT Vashi Project Title: Grid Interfacing of Transformerless Photovoltaic Inverter Students: Ganesh Jadhav, Sushant Khetle, Trupti Gajre, Baljot Kaur	FH24
9	Second prize for Project Poster Presentation Competition at FCRIT Vashi Project Title: Design and development of Gyromotor and its power modulator. Students: Saurabh Kaduskar, Pratim Parab, Anubhav Panda, Mohit Rajput	FH24
10	First prize in FCRIT-Avishkar: A National Level Project Competition Title of Project: Design and development of Gyromotor and its power modulator. Students: Saurabh Kaduskar, Pratim Parab, Anubhav Panda, Mohit Rajput	FH24

Sr.No	Achievement	Year
11	<p>Third prize in FCRIT-Avishkar: A National Level Project Competition</p> <p>Project Title: Power sharing control for Battery and UC based Hybrid Electric source for EV application.</p> <p>Students: Anamika Sharma, Piyush Khaire, Siddhesh Deshmukh, Dhanashree Talele</p>	FH24
12	<p>Team Thestral Ranked Third amongst 20 Teams in Sky Maneuver at IIT Roorkee on the occasion of COGNIZANCE an Annual Technical Fest of IIT Roorkee.</p> <p>Student Team members from Electrical department include:</p> <p>Saurabh Kaduskar (BE)</p> <p>Anubhav Panda (BE)</p> <p>Pratim Parab (BE)</p> <p>Sarthak Varma (TE)</p> <p>Soham Suryawanshi (SE)</p>	FH24



EVENTS UNPER FESA

A decorative brown flourish or scrollwork line that spans the width of the text, positioned below the word 'FESA'.

Vidyut Seminar Series

The Vidyut seminar series is organized by the Electrical Engineering Student's Association (EESA) every semester. Experts from industries are invited to deliver sessions on diverse topics that will help students to gain knowledge outside the engineering curriculum. The Vidyut seminar series aims to bridge the gap between industry, academia, and students, to foster a healthy environment for their growth.



Vidyut Seminar Series-1

MOTIVATIONAL TALK

On September 2, 2023, the S.E Electrical students had the privilege of attending an inspiring seminar titled "Motivational Talk," delivered by the esteemed Mrs. Vijaya Vaithilingam, Mentor & School Advisor, Fr. Agnel Multipurpose School. Mrs. Vaithilingam, renowned for her dynamic approach to motivational speaking, captivated the audience with her insightful perspectives on overcoming challenges and achieving personal and academic success. She emphasized the importance of resilience, continuous learning, and the power of a positive mindset. The seminar left a lasting impression on the students, equipping them with valuable tools to navigate their educational journeys and future careers with confidence and enthusiasm.



Vidyut Seminar Series-1

GREEN BUILDING MOVEMENT IN INDIA

On September 2, 2023, T.E Electrical students had the opportunity to attend an enlightening seminar titled "Green Building Movement in India," presented by the distinguished Mr. Bhavesh Mehta, DGM, Reliance Industries Limited, Navi Mumbai. Mr. Mehta, a leading expert in sustainable architecture and green technology, shed light on the significance of environmentally friendly construction practices in the Indian context. Emphasizing the role of electrical engineers in advancing green building technologies, Mr. Mehta inspired the students to contribute to a sustainable future. The seminar was a resounding success, leaving students motivated to integrate eco-friendly practices in their future projects.



Vidyut Seminar Series-1

INDUSTRIAL SAFETY

On September 2, 2023, B.E Electrical students participated in a highly informative seminar on "Industrial Safety," conducted by the esteemed Mr.M.M. Patro, Associate Director, Light Water Reactor group, Electrical Procurement, NPCIL. With extensive experience in industrial safety protocols, Mr. Patro provided a comprehensive overview of essential safety measures, risk management, and accident prevention techniques. He highlighted the critical importance of adhering to safety standards and regulations in the workplace to protect both personnel and equipment. Through real-world examples and practical advice, Mr. Patro's seminar underscored the vital role of safety in industrial environments, leaving the students well-equipped with knowledge and practices to ensure a secure and efficient working atmosphere.



Vidyut Seminar Series-2

ELECTRICAL & SOLAR POWER SYSTEM

On February 2, 2024, the EESA Council hosted a highly informative seminar on "Electrical and Solar Power Systems" for S.E and T.E Electrical students. The event featured esteemed dignitaries Mr. S.K. Mahajan, Principal of TPSDI, and Mr. V.D. Kulkarni, Head of TPTI and TRU. Mr. S.K. Mahajan delivered the seminar, providing an in-depth exploration of the latest advancements in electrical and solar power technologies. He emphasized the growing importance of renewable energy sources and their integration into the existing power grid. The seminar broadened the students' technical knowledge but also underscored the critical role of sustainable energy solutions in shaping a greener future.



Glimpses of the Event



Vidyut Seminar Series-2

THE SIGNIFICANCE OF AN ELECTRICAL ENGINEER'S ROLE IN THE INDUSTRY

The EESA council successfully conducted the Vidyut seminar on February 9, 2024, featuring distinguished speakers Mr. P. Nandkumar, Technical Director, Consulting Services, ETAP Automation Pvt. Ltd., and Mr. Saishankar Sanaboina, Manager & Principal Engineer, Consulting Services, ETAP Automation Pvt. Ltd. The seminar, attended by 3rd-year and 4th-year Electrical Engineering students, focused on "The Significance of an Electrical Engineer's Role in the Industry: A Focus on Power System Engineering." Both experts shared valuable insights into the critical functions of electrical engineers in modern power systems, highlighting the importance of technical expertise and innovation in addressing contemporary challenges. The event provided students with a deeper understanding of their future roles and the impactful contributions they can make within the industry.



Glimpses of the Event



Yoga Workshop

On Saturday, March 2nd, the EESA Council successfully organized a yoga workshop aimed at promoting physical and mental well-being among students. The workshop was led by Mr. Avdhoot Ghatge, an esteemed yoga trainer with qualifications including TTC, PG Diploma, M.A. in Yogashastra, and a Diploma in Chiropractic Therapy. The primary objectives of the workshop were to introduce students to stress-relief techniques through yoga and to foster a sense of balance and mindfulness. Mr. Ghatge shared his extensive knowledge of various asanas and mindful practices, guiding attendees through dynamic exercises designed to enhance both physical and mental health. Participants discovered the transformative power of balance and mindfulness, learning how to integrate these practices into their daily lives to optimize overall well-being.

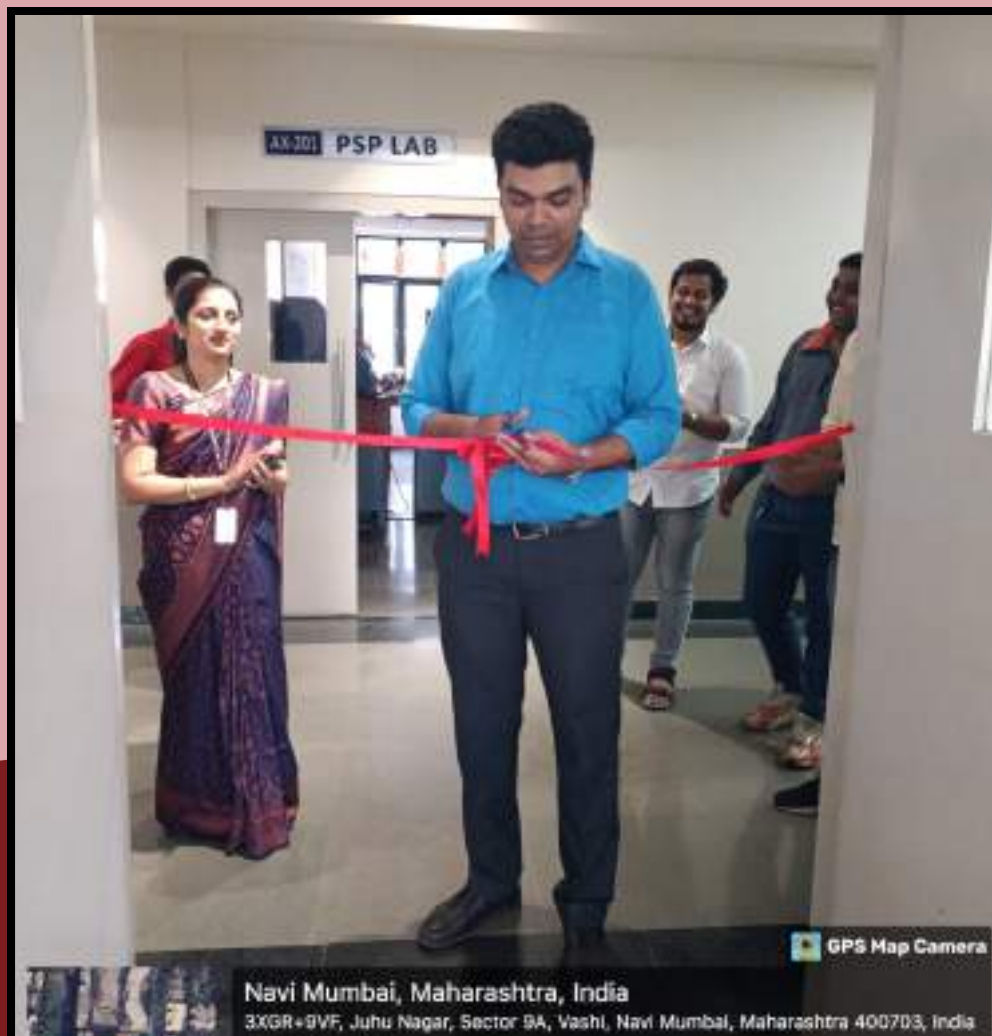


Glimpses of the Event



E-Poster Competition

The EESA Council organized a E-poster competition on March 2nd, 2024 in AX-202. Participants showcased their creativity and knowledge on the theme: Social Media Influencer, presenting visually engaging and informative posters. The event aimed to foster learning and interaction among participants, highlighting diverse perspectives on important subjects. Judged on both content and presentation, winners were recognized for their impactful contributions. The competition provided a platform for students to demonstrate their research skills and communicate complex ideas effectively through visual mediums.



Glimpses of the event



Singing Competition

The EESA Council hosted an electrifying singing competition on April 2, 2024, at AX-116 ,Seminar Hall, captivating an audience of music enthusiasts and aspiring vocalists alike. The event showcased an impressive array of talent, with participants delivering powerful performances across diverse genres, from soulful ballads to upbeat pop hits. The judges provided insightful feedback and encouragement to the contestants. This unforgettable event not only celebrated the participants' passion for music but also fostered a sense of community and camaraderie among attendees.



School Kit Donation Drive

The EESA Council organised a School Kit Donation Drive for Children of Balbhavan, Agnel Technical Education Complex, Vashi on 7th March 2024. A total of 16 volunteers of EESA came together to carefully assemble school kits which included schoolbags, notebooks, pens, pencils, pouch, eraser, sharpener, tiffin, water bottle for 12 students of Balbhavan. The students at the Balbhavan were very excited to receive their new school kits for academic journey. They expressed their heartfelt gratitude to all EESA members present at the event. Donation drive was supported by FCRIT teaching staff, parents and electrical engineering department.



Glimpses of the Event



Student's Corner

Deepanshu Gavhane
~ Sem 6



Prathamesh Yadav
~ Sem 6

Shashank
Shetty
~ Sem-6



Ritikesh Alhate
~ Sem-6

Placement Statistics

For the term 2023-24,

Minimum Package: 3.3 Lacs per Annum

Average Package: 4.95 Lacs per Annum

Maximum Package: 7.25 Lacs per Annum



Placed students of Batch 2023-24

					
Anshuman Elec Accenture	Neel Elec Aurionpro	Saumitra Elec Aurionpro	Anand Elec BMcD	Anubhav Elec BMcD	Ganesh Elec BMcD
					
Sagar Elec Odreej	Ganesh Elec Johnson Controls	Saurabh Elec Johnson Controls	Trupti Elec Johnson Controls	Yash Elec Johnson Controls	Bhavya Elec Siemens

					
Jayesh Elec BMcD	Priyush Elec BMcD	Purva Elec BMcD	Rohan Elec BMcD	Saurabh Elec BMcD	Siddharth Elec BMcD
					
Atharva Elec Tata Power	Dhanashri Elec Tata Power	Hazefa Elec Tata Power	Moiz Elec Tata Power	Sanket Elec Tata Power	Shreyog Elec Tata Power

Placed students of Batch 2023-24

							
Siddhesh Elec BMcD	Sushant Elec BMcD	Yash Elec BMcD	Vinayak Elec Deloitte	Himanshu Elec Eidiko	Anish Elec Godrej	Avishkar Elec Godrej	Pratim Elec Godrej

						
Surasda Elec Tata Power	Karan Elec TCS Ninja	Sushant Elec TCS Ninja	Baljot Elec Technip	Nivedita Elec Technimont	Chetan Elec Torrent Power	Vipul Elec Torrent Power

Industrial Visit



MSEDCL, Vashi Substation, Navi Mumbai (T.E)

FH24

Sr.No	Date of Visit	Class	Name and address of the industry
1	18/1/24	S.E	DOL Motors, Rabale, Navi Mumbai
2	18/1/24	T.E	MSEDCL, Vashi Substation, Navi Mumbai
3	18/1/24	B.E	City Institute of Disaster Management, Parel, Navi Mumbai

SH23

Sr.No	Date of Visit	Class	Name and address of the industry
1	30/9/23	S.E	MSEDCL, Kalyan (W), 421301
2	5/8/23	T.E	Saini Heavy Electrical and Engineering Co.Private Ltd. Pawane, Navi Mumbai
3	25/8/23	B.E	Syntegon Technology India Private Limited, Verna, Goa

BATCH OF 2023-24



Council Members



**PRATHAMESH YADAV
(CHAIRPERSON)**



**PARAMVEER SINGH
(SECRETARY)**



**PARTH KOLI
(TREASURER)**



**PRATHAM SURVE
(ASST. TREASURER)**

Council Members



MAYURI PATIL
(MAGAZINE EDITOR)



RITIKESH ALHATE
(MAGAZINE EDITOR)



AKASH CHAUDHARI
(MAGAZINE EDITOR)



SHASHANK SHETTY
(MAGAZINE EDITOR)

Council Members



PUNIT REVANNAVAR
(PROGRAM COORDINATOR)



SAYALI BHALERAO
(PROGRAM COORDINATOR)



BHUWAN WAILTHARE
(PROGRAM COORDINATOR)



DEEPANSHU GAVHANE
(PROGRAM COORDINATOR)

Council Members



HARSH DHURI
(PROGRAM COORDINATOR)



SAISH GAWAD
(PROGRAM COORDINATOR)



PRADNYA CHAUDHARI
(PROGRAM COORDINATOR)

Thank you!



*Ere long intelligence-transmitted
without wires will throb through the
earth like a pulse through a living
organism. The wonder is that, with the
present state of knowledge and the
experiences gained, no attempt is being
made to disturb the electrostatic or
magnetic condition of the earth, and
transmit, if nothing else, intelligence.*

- Nikola Tesla



IEEE FCRI SB



STB 61121
Presents

NEXUS

2024



Reviving Engineering's Memorable Initiatives,
Nurturing Social Change and Empowering
Communities.

Index

Sr. No.	Title	Page No.
1.	About FCRIT	1
2.	Vision and Mission	2
3.	About IEEE FCRIT SB	3
4.	Let's hear from our Branch Counselor	4
5.	Let's hear from our HoD	5
6.	From the desk of Chairperson	6
7.	Editor's note	7
8.	Core Council	8
9.	Executive Committee	10
10.	Technical Events	12
11.	Social Events	15
12.	International Women's Day	17

Index

Sr. No.	Title	Page No.
13.	Soft Skills Event	18
14.	IEEE Website	19
15.	IEEE Membership Benefits	20
16.	Memories	21
17.	Editors	22

ABOUT FCRIT

Fr. C. Rodrigues Institute of Technology was established in 1994 as an extension of the pioneering efforts of the Agnel Ashram fathers in the arena of Technical Education with the relentless pursuit of excellence as its guiding force.

FCRIT in a short span of time established itself as a leading engineering college in Mumbai, bagging at least one university rank every year starting with its first graduating batch.

The Government of Maharashtra awarded FCRIT an 'A Grade' in its initial assessment in recognition of the fact that it provides high quality, value-based technical education made possible by its devoted staff and extensive facilities.

The college has been recognised under NAAC and received accreditation from National Board of Accreditation(NBA) for four branches. Though its reputation rests mainly on the high quality, value-based technical education that it imparts, it has to its credit a verdant, well- maintained Campus and extensive facilities. It has also made its mark in sports, extra-curricular and co-curricular activities.



VISION AND MISSION

VISION

To evolve and flourish as a progressive center for modern technical education, stirring creativity in every student leading to self-sustainable professionals, through holistic development; nurtured by strength and legitimate pride of Indian values and ethics.



MISSION

- 1.To provide industry oriented quality education.
- 2.To provide holistic environment for overall personal development.
- 3.To foster relationship with other institute of repute, alumni and industry.

ABOUT IEEE FCRIT



IEEE student branch FCRIT, Vashi was created in the year 2000. Since then the student chapter has been organizing various intra-collegiate events. Our mission is to provide the students with a platform and opportunity to enhance their abilities while motivating them to make new advances in technology.

We aim to develop communication, leadership, technical, and other soft skills for our members. We have organized a STEM workshop to inculcate young minds in the engineering field. We have also organized a Drone Building Workshop for students interested in it. In addition to these, we have organized a number of other events, webinars, and workshops relating to technical and non-technical areas. IEEE FCRIT SB would like to express our heartfelt gratitude to our esteemed principal Dr. S. M. Khot, respected HOD of Electrical Engineering Bindu S, our Branch counselor Dr. Mini Rajeev, and last but not least our whole student chapter for all their contributions to the advancement of IEEE FCRIT SB.

Let's Hear From Branch Counselor

IEEE FCRIT student chapter provides a platform for students to show case their skills, interact and learn from peers, interact with professionals in their field of interest to name a few. Learning that takes place outside the four walls of the classroom have a wide range of benefits for the student community and this transforms them to individuals contributing more towards the society.



Every year, our student chapter focuses on conducting technical and social activities and encourages students to take advantage of the benefits of IEEE membership, like attending seminars free of cost conducted by IEEE, availing scholarships, participating in competitions, availing discounted registration fees for conferences and conference grants.

I congratulate all the passionate members of the 2023-2024 IEEE FCRIT SB for their dedication, whole hearted support and cooperation in successfully conducting numerous events throughout the year. These events include online and offline seminars in several topics, workshops, competitions, workshop to promote STEM education in schools etc.

I appreciate the collective efforts of the team in bringing out this magazine which is released every year. Thanks are due to Dr. Bindu S., HoD of Electrical Engineering department and Dr. S.M. Khot, Principal for the support and guidance provided for conducting these activities. I thank and wish all the student volunteers who worked for IEEE FCRIT SB, a bright future ahead.

Dr. Mini Rajeev
IEEE Branch Counselor

Let's Hear From

Head of our Department

Engineering is a highly desirable field of study in India. However, the path from being an engineering student to a successful professional is filled with many challenges. Despite the high number of engineering graduates, only a small percentage are deemed employable. This is due to various factors, such as the quality of education, the lack of practical skills, and the gap between industry requirements and the academic curriculum.



While technical skills are undeniably important, soft skills like communication, teamwork, and problem-solving are equally vital in the engineering field. Employers frequently seek these skills during the hiring process. Developing these abilities can significantly boost an engineering graduate's employability and career success. The IEEE Student Council offers a valuable opportunity to develop skills such as leadership, communication, teamwork, organization, and public speaking. Every year, the IEEE Student Branch organizes various activities, including technical webinars, field visits for social causes, and initiatives for women's empowerment.

Being an IEEE member provides access to a vast array of resources on the IEEE website, which can significantly enhance your technical knowledge. It is essential for the IEEE student branch to promote this awareness among all students, encouraging them to join the club. By taking advantage of IEEE's facilities, students can improve both their soft skills and technical expertise, making them adaptable in any industry.

Dr. Bindu S
Head of Department
Department of Electrical Engineering

Let's Hear From IEEE CHAIRPERSON

Hello to all readers!

IEEE is an international organisation which I believe plays an important role in the professional lives of all engineers and future engineers. It provides fantastic networking opportunities and immensely fruitful educational incentives. It also supports collaborations at a global level.



The IEEE FCRIT Student Branch has always made an attempt to make these same facilities available to all the students. Being the chairperson, it was an eye opening experience for me as I had the opportunity to interact with some of the most brilliant minds from all walks of life. When it came to being a leader, I did my best to foster an environment of camaraderie and appreciation. This is evident as the success of our events is nothing but a culmination of each and everyone's hard work and efforts. The events conducted this year were not exclusively technical but also included some catering to professional development and philanthropy. One of my favorites was STEM EDUCATION wherein we got to help young students explore the world of electrical and electronics field. We were able to ignite their interest and hoped to opened their mindset to infinite possibilities. I want to extend my heartfelt gratitude to IEEE Bombay Section for sponsoring this wonderful workshop year after year.

Shriraj Patil
Chairperson, IEEE FCRIT SB

EDITOR'S NOTE

Dear Readers,

It is my great pleasure to welcome you to this edition of our college magazine, dedicated to celebrating the achievements and activities of our IEEE council. This past year has been a remarkable journey filled with innovation, collaboration, and growth.

Our council has organized a variety of events, workshops, and seminars that have enriched the knowledge and skills of our members. From technical symposiums to hands-on projects, we have strived to create opportunities for learning and professional development.

I am immensely proud of our dedicated team and enthusiastic members who have made these accomplishments possible. Their commitment to excellence and passion for technology is truly inspiring.

As we look ahead, we are excited to continue this journey, fostering a community where ideas thrive and leaders emerge. We encourage all students to join us, participate actively, and take advantage of the resources and opportunities we provide.

Thank you for your continued support and involvement in the IEEE council. Together, let's push the boundaries of innovation and make a lasting impact.

Mansi Dnyandeo Kumbhar
Secretary
IEEE FCRIT SB

Core Council

2023-24

CHAIRPERSON

**SHRIRAJ
PATIL**



VICE CHAIRPERSON

**SHRUTI
KATKAR**



SECRETARY

**mansI
KUMBHAR**



Core Council

2023-24



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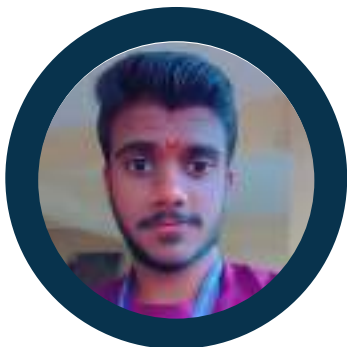
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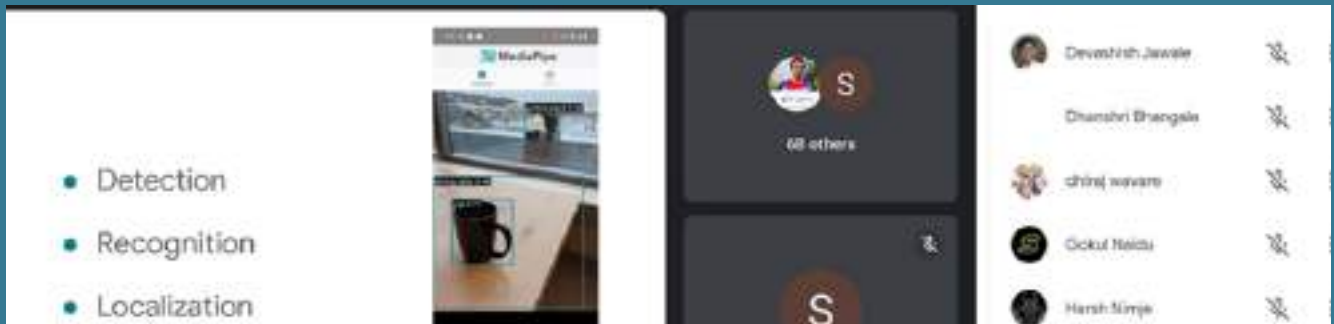
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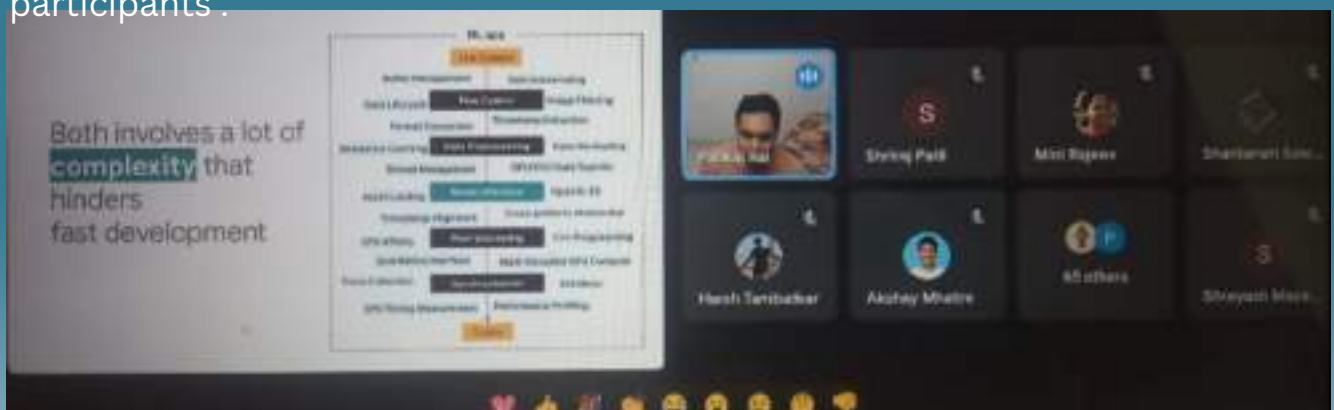
TECHNICAL EVENTS

On-device Machine Learning

The event "On-device Machine Learning (Basics of ML)" held online on 17th December 2023 proved to be a resounding success in achieving its objectives. By introducing the basics of on-device ML and showcasing the functionalities of MediaPipe, the event effectively piqued the curiosity and interest of participants in machine learning. The outcomes were highly positive, with the hands-on approach and an interactive question-and-answer session enabling the students to gain a comprehensive understanding of core ML concepts, paving the way for further exploration in this field. The seminar began with an overview of on-device machine learning, explaining its importance and applications. This was followed by a detailed introduction to MediaPipe, where the speakers provided insights into its functionalities such as image classification, image generation, and segmentation. These functionalities were demonstrated practically, allowing participants to see firsthand how tasks can be simplified with MediaPipe.



Participants praised MediaPipe for its user-friendly approach and its ability to simplify complex ML tasks. The feedback collected from participants highlighted the event's success and the enthusiasm it generated among students from different branches, years of study, and colleges. Overall, the event left a lasting impact on the participants, empowering them with newfound knowledge and igniting their passion for machine learning. The commitment to continuous learning and improvement ensures that future events will build on the success of this webinar, providing even more value to participants.



BLOCKCUBE

The "BLOCKCUBE" event, held at SIES GST and Cloudstrats on January 20-21, 2024, aimed to provide participants with practical skills and knowledge in blockchain technology and decentralized finance (DeFi) through hands-on bootcamps and a hackathon/ideathon. The event offered focused training in NFTs, DApps, DeFi, DAOs, and Game-fi concepts, and facilitated networking and collaboration among attendees, sponsors, and industry professionals. Participants engaged in a series of bootcamps that included the creation, use cases, and integration of non-fungible tokens (NFTs); the architecture, development, and deployment of decentralized applications (DApps); decentralized finance concepts such as lending, borrowing, trading, and yield farming; the structure and governance of Decentralized Autonomous Organizations (DAOs); and the convergence of gaming and DeFi, including play-to-earn models and asset ownership. On the second day, the event transitioned to a hackathon/ideathon, where participants were briefed on problem statements, worked in teams to design solutions using blockchain technology, and presented their innovations to a panel of judges. Overall, "BLOCKCUBE" successfully deepened participants' understanding of blockchain and DeFi, offered hands-on learning experiences, and fostered meaningful networking opportunities.



Drone Workshop

The event "Drone Workshop" held at Fr.Agnel College on 4th April 2024 was designed to provide a comprehensive understanding of drone technology, integrating theoretical knowledge with practical hands-on experience. With a primary focus on educational empowerment, the goal was to equip participants with the necessary skills for proficient drone navigation. Through engaging and interactive sessions, attendees were able to enhance their proficiency in drone assembly, calibration, and flight operations. Ultimately, the workshop's objective was to empower participants with the knowledge and confidence required to excel in the field of drone technology.



Participants departed the workshop with enhanced knowledge, skills, and confidence in drone technology. They deepened their understanding of drone components, operational principles, and practical applications across various industries. Proficiency in assembly, calibration, and flight control empowered them to address real-world challenges effortlessly. The workshop instilled a profound sense of empowerment, enabling participants to pursue opportunities in drone-related fields and contribute to the advancement of aviation technology. Overall, the workshop successfully achieved its goals of educating, empowering, and inspiring participants to excel in drone technology.

The background of the image is an abstract, fluid pattern of swirling lines in various shades of blue, from deep navy to light sky blue, set against a white background. The pattern resembles smoke, water, or perhaps a stylized representation of a crowd or social movement. The text is centered over this pattern.

SOCIAL EVENTS

STEM Education

The event "STEM Education" was organized on August 31, 2023, at two locations: Fr. Agnel Multipurpose School and Sacred Heart High School. The event aimed to share knowledge about STEM education, space education, and Micro Bit technology with students of class 9 and 10. A total of 400 students benefitted from the event, which saw active participation from 29 student volunteers under the guidance of Dr. Mini Rajeev, in collaboration with the IEEE Bombay Section. The workshop covered two primary topics: Space Education and Micro Bit demonstration. The Space Education segment provided insights into Chandrayaan 2, Chandrayaan 3, future ISRO missions, job roles for space enthusiasts, and ways to join ISRO. The Micro Bit demonstration showcased its applications and functionalities, engaging the students with hands-on activities. The event successfully demonstrated the working of a Micro Bit and educated students about various missions and opportunities in space education. The quiz conducted at the end of the session was well-received, with students finding it informative and enjoying the prizes awarded. Overall, the event left a lasting impact on the participants, igniting their passion for science and technology and encouraging further exploration in these fields.



Govardhan Eco Village

The excursion to Govardhan Eco Village was organised by IEEE BS SIGHT on 3rd July, 2024 (Wednesday). The students of IEEE FCRIT SB were a part of the excursion which aimed to promote sustainability among the youth. Govardhan Eco Village is a unique and sustainable community that exemplifies the harmonious integration of traditional wisdom and modern technology. The village is dedicated to promoting environmentally friendly practices and sustainable living. A highlight of the visit was the goshala, which houses 102 cows. The goshala is a serene and well-maintained area where cows are cared for with great attention to their well-being. The village is making significant strides in renewable energy. Solar panels and a solar grid are already in place, and there are plans to install a windmill. These initiatives reflect the community's commitment to reducing its carbon footprint and promoting sustainable energy sources. Govardhan Eco Village is a strong advocate of organic farming. Vermicomposting is practiced extensively to produce high-quality compost, which is used to enhance soil fertility. Water conservation is a key focus at Govardhan Eco Village. A rainwater harvesting pond, spanning 3.8 acres and 10 meters deep, has been constructed. The pond features a soil bund made of black cotton soil, which remains wet to prevent water percolation. The natural catchments from surrounding mountains aid in water storage, contributing to an increase in local vegetation. Moreover, the village employs plastic pyrolysis to convert plastic waste into oil, showcasing innovative solutions for plastic waste management.



The background of the image is an abstract, fluid pattern of swirling blue and white lines, resembling a marbled or liquid effect. The colors range from light, airy blues to deep, vibrant blues, with white highlights that create a sense of movement and depth.

INTERNATIONAL WOMEN'S DAY

FemTech Forum



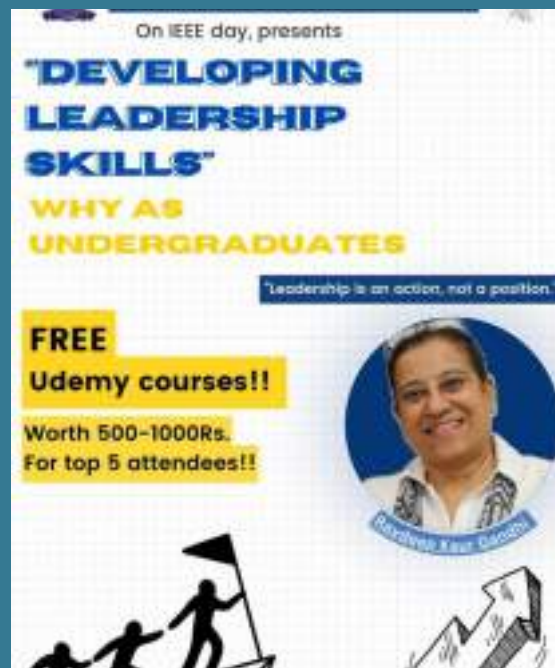
The IEEE event held on the occasion of Women's Day featured two notable speakers: Shravanti Prabhu, an electrical engineer at Siemens, and Rushali Thakur, the chairperson of IEEE WIE (Women in Engineering) Bombay Section. Shravanti Prabhu, an accomplished electrical engineer at Siemens, shared insights into her professional journey, highlighting her experiences, challenges, and successes in the field. She discussed her contributions to projects and advancements in electrical engineering. Rushali Thakur, as the chairperson of IEEE WIE Bombay Section, focused on initiatives and programs aimed at empowering women in engineering. She spoke about the importance of creating a supportive and inclusive environment for women in STEM (Science, Technology, Engineering, and Mathematics) fields, the various opportunities and resources available through IEEE WIE as well as they provide grants and scholarships. The event provided a platform for networking, knowledgesharing, and inspiration for women in encouraging them to pursue their passions and excel in their careers despite any obstacles they may face. It also highlighted the significance of organizations like IEEE in promoting diversity and inclusion within the engineering community.



SOFT SKILL EVENTS

“DEVELOPING LEADERSHIP SKILLS”

1.Objectives: The primary objective of this seminar was to enhance awareness of the significance of developing leadership skills and the impact they have on personal and professional lives. The event also explored how undergraduates can emphasize the role of leadership skills in achieving their objectives. By the end of the session, students had a more profound understanding of how to cultivate and utilize leadership skills judiciously in any facet of their lives.



On October 3, 2023, at 3:30 pm in the seminar hall, the IEEE FCRIT Student Branch hosted the event "Developing Leadership Skills: Why as Undergraduates?" Ms. Ravdeep is a visionary leader with over 25 years of experience in microbiology, marketing, and law. She has excelled in sales, marketing strategy, business development, and operations, specializing in the healthcare sector. She has held significant roles in renowned MNCs and organizations like Ranbaxy Pharma, Becton Dickinson, and PATH. Her expertise includes private-public partnerships in public health and a strategic, creative approach to problem-solving. She also has a notable track record in managing India and international markets, with a focus on business development and marketing strategy. Ms. Ravdeep shared her insights on leadership skills and ethics with the audience, emphasizing the importance of both in the journey of personal development. She spoke eloquently about the need for leaders to be ethical and principled in their decision-making, and she encouraged the students to develop their own leadership skills in order to make a positive impact on the world. The event concluded with a question-and-answer session, during which students had the opportunity to ask Ms. Ravdeep questions about her talk.

The event was a resounding success, providing students with invaluable insights on crucial leadership skills and ethics from a highly distinguished and respected leader. Ms. Gandhi's perspicacious and inspiring insights made a profound impression on the audience. They were encouraged to engage in critical thinking about the importance of leadership skills and to clarify their doubts by sharing their own thoughts and experiences.

IEEE MEMBERSHIP

IEEE student membership offers several benefits tailored specifically for engineering undergraduates:

- **Networking Opportunities:** Connect with peers, faculty, and professionals through IEEE's local chapters and global events, facilitating valuable relationships and collaborations.
- **Discounted Conference Fees:** Receive reduced rates for IEEE-sponsored conferences and events, making it more affordable to attend and present research.
- **Career Resources:** Utilize IEEE's job boards, resume tips, and career development resources to enhance your job search and career planning.
- **Professional Development:** Engage in workshops, webinars, and tutorials designed to build skills and knowledge in various engineering disciplines.
- **Scholarships and Competitions:** Apply for scholarships and participate in IEEE-sponsored competitions and awards to gain recognition and financial support.
- **Technical Societies:** Join specialized technical societies within IEEE that align with your field of interest for more focused resources and networking.
- **Student Publications:** Contribute to and access student-run publications and newsletters to stay informed about the latest trends and innovations.
- **Leadership Experience:** Take on leadership roles within IEEE student chapters to build organizational and management skills.
- **Discounted IEEE Products:** Enjoy discounts on IEEE books, standards, and other resources, providing valuable tools for your studies and research.

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**RAMCHANDRA
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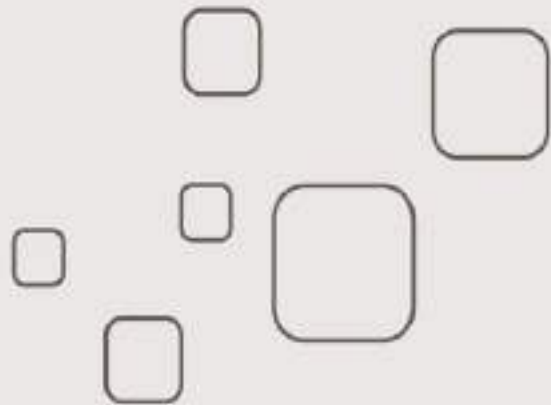


-IEEE FCRIT SB



IEI NEWS LETTER RESTROSPECT

*IEI STUDENTS CHAPTER
ELECTRICAL*



2023-2024





The Institution of Engineers (India)



Student's Chapter (Electrical)

Fr. Conceicao Rodrigues Institute of Technology Agnel Technical Education
Complex Vashi

(An Autonomous Institute & Permanently Affiliated to University of Mumbai)

IEI NEWSLETTER RETROSPECT 2023-24

The Institute of Engineers (India) Students' Chapter is an organisation with a long history that promotes innovation, academic excellence, and professional development while empowering aspiring engineers. It coordinates technical symposiums, workshops, seminars, and industrial partnerships with a focus on hands-on learning and practical applications. The chapter is still dedicated to educating the next generation of engineers ensuring that their contributions to engineering have a positive impact on society.

About Insitute

Fr.C.R.I.T. has quickly established itself as one of Mumbai University's top engineering colleges. Although its reputation is mostly built on the excellent, value-oriented technical education it provides, it also boasts a lush, well-kept campus and a wide range of facilities to its credit. Its secular nature is furthered by its proximity to numerous religious denominations sacred sites.



FCRIIT, Vashi Campus

With the file number Western/110975255125/2 022/EOA, the college takes pleasure in being one of the few that has accreditation for all five branches. Dated 02.06.2022, NBA.

The Department's Aim

One of the earliest engineering disciplines, electricity has been a focus of scientific inquiry at least since the 17th century. By teaching students how to efficiently design, analyse, execute, and run electrical and electronic systems, new challenges are made available to them. The students are taught in-depth information on machines, power systems, control systems, signal processing, drives, power electronics, microprocessors, and switched mode power supplies in this area. We have highly qualified, seasoned, and committed employees in the department to impart this. Additionally, students have access to well-equipped labs like the Renewable Energy Lab and the Project Lab to help them develop their practical knowledge and polish their minds. The department's goals are as follows:

Department Vision:

The department's vision is to become a cutting-edge hub for contemporary technical education in the field of electrical engineering, producing individuals who can support themselves.

Departmental Goals:

- To offer cutting-edge technical instruction in the discipline of electrical engineering.
- To work together with reputable industries and institutions in order to advance
- To create a holistic environment for the growth of civically engaged individuals.

Program Educational Objectives (PEO):

Graduates will be able to:

- Show fundamental competence in the fields of power electronics, machines, renewable energy, and related subjects.
- Support environmental sustainability by creating, developing, and putting into service green energy or clean energy systems.
- Succeed in further education and professional endeavours while upholding moral principles.

Program Specific Outcomes (PSO):

Graduates will be qualified to...

- Recognize and assess the issues with the systems for the production, transmission, and distribution of electricity.
- Become technically proficient in the creation of renewable energy systems and make a contribution to energy conservation.

The IEI

Established in 1920 and incorporated by Royal Charter in 1935, the Institution of Engineers (India) [IEI] is a statutory body to improve engineering and technology. With more than 820,000 members and 15 (fifteen) engineering specialties covered, it is the largest multidisciplinary professional body of engineers and has been serving the country for more than nine decades.

With a number of professional societies around the world, IEI has bilateral partnerships. Under the global International Professional Engineers Alliance (IntPEA), it maintains the International Professional Engineers (IntPE) Register for India. The Professional Engineers (PE) Certification is also given out by the Institution.

The Indian Institution of Engineers has its IEI's President serves as the leader of a National Council that manages the organization's headquarters in Kolkata, India.

IEI Electrical Students' Chapter

The IEI students' chapter includes all of the electrical department's students. Six members of the council for the academic year 2022–2023 are chosen among the second-year students. The council will be in place for a full year.

For the academic year 2022–2023, the following events were held as part of IEI.

IEI Events 2023-24

1. **Expert Lectures:** In the academic year 2023-24, 13 expert lectures across various disciplines featuring renowned professionals who shared their insights and cutting-edge research.
2. **Arduino Workshop**
3. **Yoga Session**
4. **Seminar on Electric Vehicles**
5. **Latex Workshop**
6. **Fr. CRIT Avishkar 2024**

Arduino Workshop

On 29th of August 2023, a workshop on Arduino was conducted by Dr. Diptiman Dey, Prime Minister's Research Fellow (PMRF) from IIT Bombay, Department of energy science and engineering. The Arduino workshop offered to students was a really interesting and educational event that helped students gain a deeper understanding of electronics and programming ideas. The programme offered a venue for practical learning and creativity with the goal of introducing students to the world of open-source hardware and microcontrollers.



Brochure for Arduino Workshop

The Arduino workshop successfully engaged students through practical exercises that involved assembling circuits, coding, and interfacing with various electronic components. The students' enthusiasm and eagerness to explore technology were palpable, making the workshop a significant step towards fostering a technologically empowered generation ready to tackle future challenges.

Yoga Session

On September 2nd 2023, the IEI (Electrical) Students Council organized a rejuvenating yoga session, aimed at promoting physical and mental well-being among students. The event, held on campus, was attended by a diverse group of participants who engaged in various yoga postures and breathing exercises under the guidance of experienced instructor Dr. Swaranjali Gaikwad. The session provided a perfect opportunity for students to relax, de-stress, and recharge, fostering a sense of community and holistic health.



Brochure for Yoga Session

Seminar on Electric Vehicles (EV)

On February 9, 2024, Mr. Ashutosh Pailwan, Assistant Vice President at Adani Electrical, conducted an insightful seminar on Electric Vehicles for second-year students of the Electrical Engineering branch. The seminar delved into key topics crucial for budding engineers, including motor sizing and selection, battery and traction system design.

Mr. Pailwan also discussed the current state and future prospects of charging infrastructure, emphasizing the importance of sustainable and efficient solutions. The session provided students with a comprehensive understanding of the technical and practical aspects of electric vehicles, inspiring them to contribute to the evolving landscape of electric mobility.



Brochure for Seminar on Electric Vehicles

Latex Workshop

On January 20, 2024, a hands-on LaTeX workshop was conducted so that students could prepare their mini project - 1A reports in the LaTeX format. Participants were guided through the process of creating .tex files using an online YouTube video as a reference. The workshop covered essential topics such as document structuring, formatting, and including figures and tables. Students were required to apply these

skills to format their mini project reports in LaTeX, enhancing their technical documentation capabilities and familiarizing them with a powerful tool widely used in academia and industry.

Fr.CRIT AVISHKAR 2024

Avishkar, the prestigious national-level UG project competition, brought together students from Electrical, Mechanical, and EXTC branches for a thrilling display of innovation and creativity. The event was held on 20th of April 2024 and witnessed enthusiastic participation from a total of 55 talented students. It provided a platform for technology-related innovative ideas addressing significant societal problems, contributing to advancement of science and technology. Students were able to showcase their technical skills, teamwork and innovation on a collective and unified stage.



Poster for Avishkar 2024

Cutting-edge projects and solutions served as a melting pot of ideas and perspectives, encouraging healthy competition and collaboration among the participants.

For Avishkar 2024, we were honored to have esteemed judges from diverse fields of expertise.

Dr. Mapara Yasin M.S. who has extensively worked with CIDCO, as Assistant engineer and then later as Executive engineer provided wonderful insights and guidance proved crucial to participants.

Also, Dr. Pratap Dhumale brought his insights and industry knowledge to evaluate and recognize groundbreaking innovations, contributing to fostering a culture of innovation and excellence in the competition.



Brochure for Avishkar 2024 - Front



Brochure for Avishkar 2024 - Back



Judges evaluating the solar powered Electric Vehicle project



Judges evaluating project on solar powered pesticides spraying vehicle



Judges evaluating Grid Interfacing of Transformerless Inverter



HOD felicitating winners of Fr.CRIT Avishkar 2024



HOD felicitating runners-up of Fr.CRIT Avishkar 2024

Dr. Thomas Kailath

Dr. Thomas Kailath is a distinguished electrical engineer and academic prowess. Born in India and educated at the Massachusetts Institute of Technology (MIT), where he earned his Ph.D. He served as a professor at Stanford University for many years, where he mentored numerous students who have gone on to make significant contributions to electrical engineering and related fields.



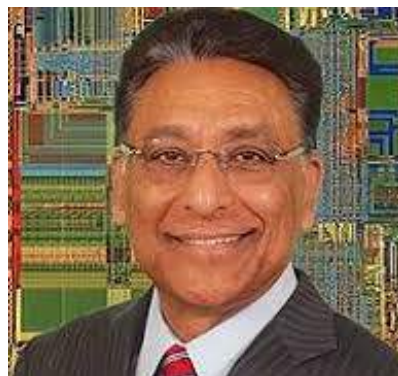
Dr. Thomas Kailath

His work spans a wide range of topics, including linear systems, control theory, and statistical signal processing. He is perhaps best known for the Kailath-Linderström principle in communication theory and the development of innovative algorithms that are fundamental in the field of modern digital communications and control systems. His contributions have been recognized with numerous awards, including the IEEE Medal of Honor and the National Medal of Science.

Dr. Vinod Dham

Dr. Vinod Dham, often referred to as the "Father of the Pentium Chip," is a renowned electrical engineer who has made significant contributions towards the field of micro-processors. Born in India, Dr. Dham earned his Bachelor's in Electrical Engineering from Delhi College of Engineering before moving to the United States to pursue a Master's degree at the University of Cincinnati.

Dr. Dham's most notable achievement came during his tenure at Intel Corporation, where he played a crucial role in the development of the Pentium microprocessor. This breakthrough technology revolutionized computing by significantly enhancing the performance and capabilities of personal computers, making them more accessible and powerful for consumers and businesses alike.



Dr. Vinod Dham

He has also been actively involved in venture capital, mentoring and investing in numerous startups, particularly in the technology and semiconductor sectors.

Quotes by Famous People

1. "True terror is to wake up one morning and discover that your high school class is running the country." — Kurt Vonnegut (March 2015)
2. "Always forgive your enemies; nothing annoys them so much."—Oscar Wilde (June 1954)
3. "Sometimes the road less traveled is less traveled for a reason." — Jerry Seinfeld (February 1997)
4. "Never go to bed mad. Stay up and fight." — Phyllis Diller (November 2016)
5. "If you can't be kind, at least be vague." —Judith Martin (September 1997)
6. "Misers are no fun to live with, but they make great ancestors." —Tom Snyder (September 1998)

EVENT PHOTOGRAPHS:



Reveal of IEI Newsletter for 2022-23



Yoga Session organised by IEI Council



Seminar on Electric Vehicles conducted by Mr. Ashutosh Pailwan, Assistant Vice President at Adani Electrical



Judges evaluating solar powered pesticides spraying vehicle



HOD felicitating winners of Fr. CRIT Avishkar 2024



Valedictory Ceremony of AVISHKAR 2024



IEI Council with faculty advisor

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PROF. DIVYA SAJEESH