PADRE CONCEIÇÃO COLLEGE OF ENGINEERING

SYNERGY

2025

DEPARTMENT OF ELECTRONICS & COMPUTER ENGINEERING
VERNA-GOA

OUR VISION

To be recognized as a program providing technical proficiency to its graduates with a strong emphasis on critical thinking to create globally competent technocrats in the field of Electronics and Computer Engineering.

OUR MISSION

- To establish a healthy learning environment enabling students to handle challenges in the Electronics and Computer domain.
- To cultivate the spirit of research and innovation amongst faculty and students.
- To provide ethical and value based education by promoting activities addressing the needs of the society.
- To promote collaboration with industries and alumni for sharing knowledge to prepare for careers in both the domains.

NOTE FROM THE

EDITOR

The department magazine has always been more than just pages of text and pictures. It is a collection of memories, achievements, and experiences that reflect the spirit of our Electronics and Computer Department. From the time the council was established, the magazine has carried forward the journey of students, capturing their efforts, creativity, and milestones. Even as batches move on from college, the magazine remains as a reminder of the time spent together here.

For me, working on this magazine for the second time has been both an honor and a learning experience. When I was first offered the role of Magazine Secretary again, I was unsure because it was a critical year. But today, I can say that while it has been a lot of work, it has also taught me much more than the last time. I feel grateful for the opportunity to use my skills for something that serves the department and brings everyone's contributions together.

This magazine would not have been possible without the support of an amazing team who worked tirelessly, even during their vacation, to bring it to life. I am also thankful to all those who shared their content, ideas, and photographs, which helped make these pages complete.

It has been a privilege to be part of this journey once again, and I hope this edition of the magazine will continue to inspire, remind, and connect us all.

Shama Ghatwal
TE ECOMP

NOTE FROM THE

GENERAL SECRETARY

Serving as the General Secretary of EXACTAS has been an incredible journey filled with learning, collaboration, and growth. Working closely with the team and for the Electronics and Computer Engineering Department gave me valuable insights into leadership, planning, and teamwork, skills that no classroom alone could teach.

“Alone we can do so little; together we can do so much.” – Helen Keller

This year, we successfully organized a range of workshops, hosted our college’s Technical Fest, and also participated with great enthusiasm in the Cultural Fest. I am proud to say that our unity and spirit helped us bring the MITHYA trophy home. Each event brought its own challenges and rewards, and it was truly heartening to see the enthusiasm and involvement of our students throughout.

A heartfelt thank you to the hardworking EXACTAS team and our supportive faculty members, without whom the smooth execution of all our initiatives wouldn’t have been possible. To our students—your participation, energy, and collaboration made all the difference.

To my juniors, I strongly encourage you to be a part of the EXACTAS team. Whether you take up a leadership role or support in any capacity, it’s a chance to grow your confidence, develop organizational skills, and work with a wonderful group of like-minded peers.

Thank you for giving me the opportunity to serve in this role, it has been an honour and a truly memorable experience. More than organizing events, this role taught me how powerful unity, teamwork, and a shared vision can be. Let’s continue this spirit of unity and excellence. Stay involved, stay inspired, and keep pushing the boundaries of what we can achieve together.

Thank You!

Aman Bhandare
BE ECOMP

Faculty *Insights*

Synergy 25 reflects a year of remarkable growth, collaboration, and achievement within the Electronics and Computer Engineering Department. This edition captures not just events, but the spirit and dedication that our students have shown throughout the year.

We came back stronger—our win at Mithya stands out as a highlight, but it’s just one of many successes. From technical feats to creative endeavors, every chapter tells a story of hard work, innovation, and resilience.

The EXACTAS Student Council has been instrumental in creating a vibrant, inclusive atmosphere, helping students discover their strengths and lead with purpose. I’m proud of what we've accomplished together and excited for the road ahead.

Congratulations to everyone who contributed to this inspiring journey.

Prof. Sanjeet Kanekar
Faculty Incharge

Faculty *Insights*

It is with immense pride and joy that EXACTAS presents this edition of our departmental magazine, SYNERGY'25. This publication serves as a platform where talents shine and the collective achievements of our department are celebrated.

This academic year has been marked by a multitude of workshops, conferences, and both cultural and technical events. Among these, a highlight was the Electronics and Computer Engineering department's remarkable victory at MITHYA 2025, where our mascot, SUN WUKONG, symbolized our unity and determination.

SYNERGY'25 encapsulates these diverse experiences, innovations, achievements, and cherished memories of our department. It stands as a testament to the creativity, dedication, and collaborative spirit of our students and faculty. It reflects our commitment to fostering an environment that encourages academic excellence and creative expression.

Let SYNERGY carry on as a beacon that encourages innovation and unity within our department.

Prof. Sharlaine Nicole Monteiro
Faculty Incharge

TEAM EXACTAS

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Chairman

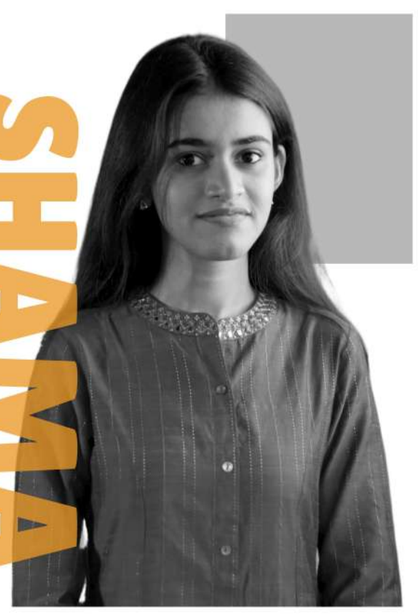
INAMUL Shaikh
Vice Chairman

AMAN Bhandare
General Secretary

MOHOMMA Kaif
Cultural Secretary

FAYAZ Khan
Technical Secretary

RAUNAK Phal Dessai
Sports Secreatry



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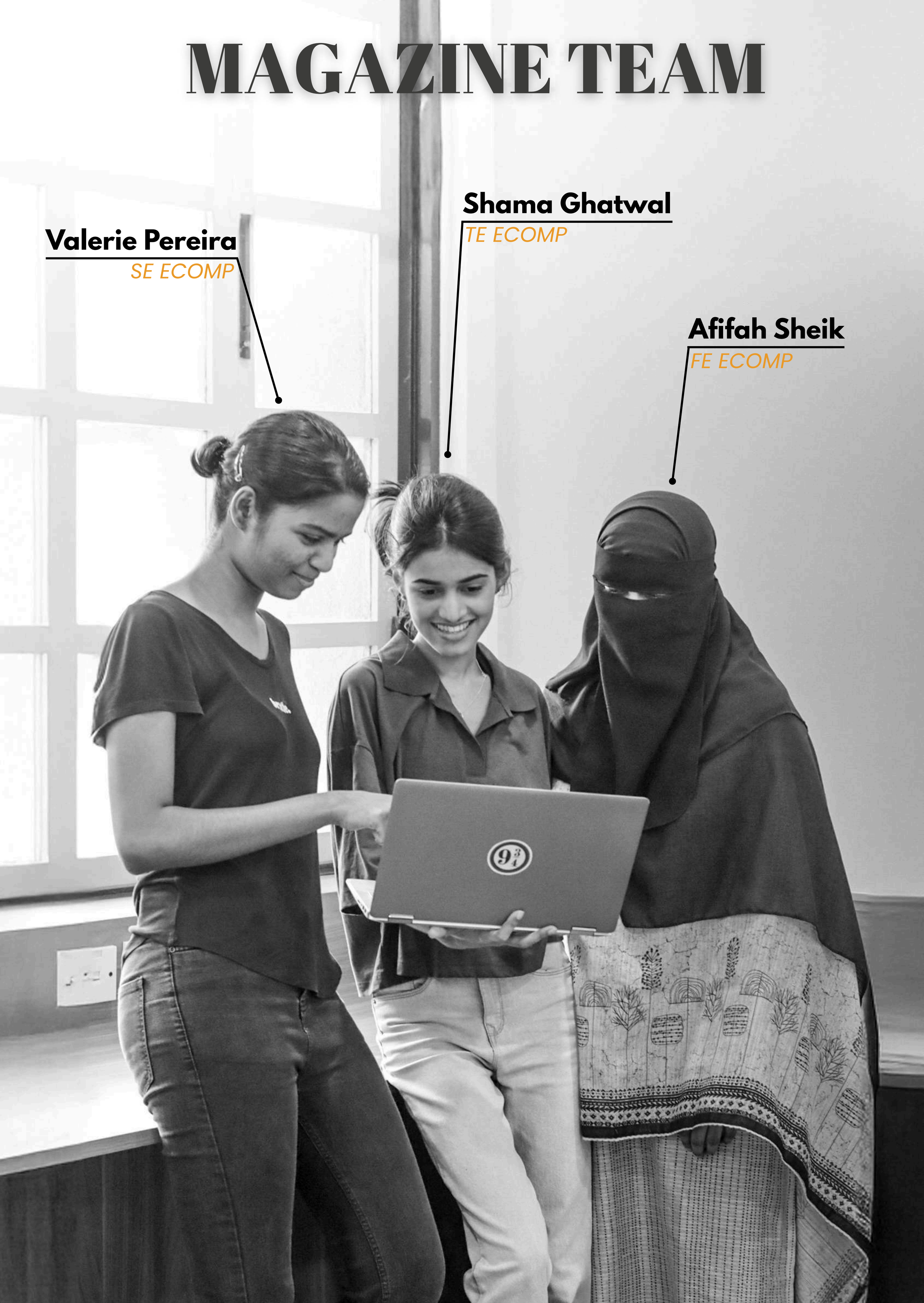

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INSTALLATIO

The successful execution of the installation ceremony marked a new chapter for the EXACTAS and R.A.C.E Club, reinforcing a strong foundation for collaborative learning and leadership among ECOMP students.

The Installation Ceremony of the EXACTAS and R.A.C.E Club for 2024–25 took place on 31st July 2024 at the PCCE Auditorium. The event was graced by Ms. Shivyani Kulkarni, a distinguished alumni of the ECOMP Department, who served as the chief guest and keynote speaker.

The program began with the lighting of the ceremonial lamp, symbolizing knowledge and enlightenment, in the presence of the chief guest, faculty members, and council coordinators. This was followed by a formal welcome address that set the tone for the day's proceedings.

N CEREMONY

The highlight of the ceremony was the interactive session conducted by Ms. Shivyani Kulkarni, titled “Life Before and After Engineering.” Through her engaging narrative, she shared real-life experiences and the journey from being a student to stepping into the professional world. Her talk was filled with practical advice, personal reflections, and career insights that resonated deeply with the audience, especially the aspiring engineers in the crowd.

Following the session, the ceremony moved on to the handover of responsibilities from the outgoing council to the newly elected members. The outgoing council members were acknowledged for their efforts and contributions throughout the previous academic year.
Each new council member was introduced and presented with their respective roles, followed by the administering of the oath, where the newly appointed leaders pledged their dedication to uphold the club’s vision and values.

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FACULTY & CONTRIBUTIONS

ACHIEVEMNTS

Advancing Research and Innovation in AI

Dr. Anuja Jana Naik, Assistant Professor in the Department of Electronics and Computer Engineering at Padre Conceição College of Engineering, continues to make significant strides in the fields of Artificial Intelligence and deep learning.

Her innovation as a co-inventor of the AI-Enhanced Health Monitoring Device using Computer Vision was recently recognized through an official design registration (Design No. 428432) under the Designs Act, 2000. This smart health device aims to revolutionize healthcare monitoring by integrating computer vision for real-time analysis, ensuring efficient and automated health diagnostics.

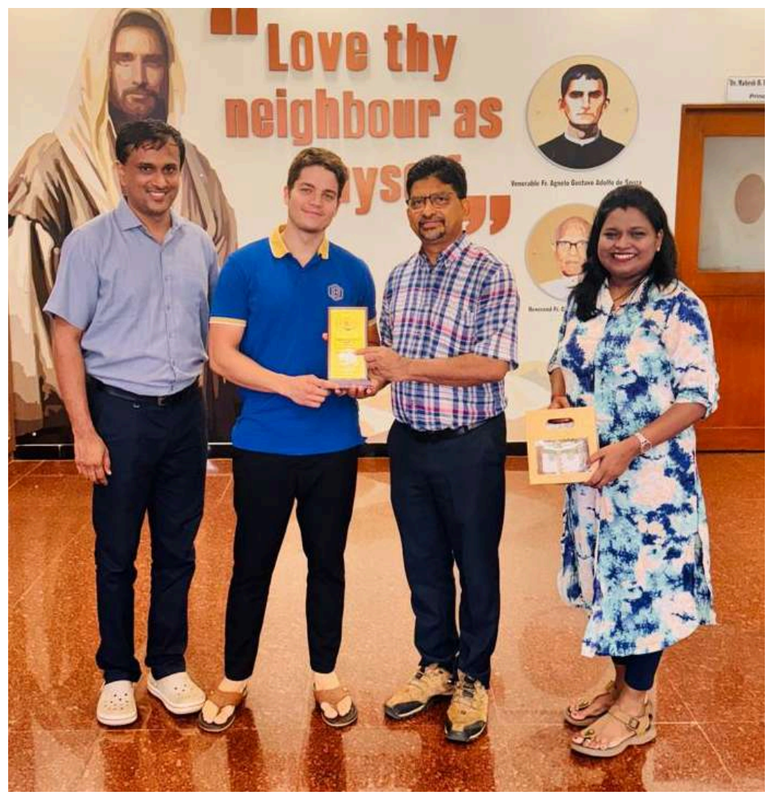
In addition, Dr. Naik's research contributions were further cemented with her publication in the International Journal of Intelligent Information and Database Systems (Vol. 17, No. 1, 2025). Her paper, titled "A Novel Heuristically Adaptive Dual Attention-Based Long Short-Term Memory for Intelligent Stock Market Trend Prediction", presents a high-accuracy AI model that combines deep learning with meta-heuristic optimization algorithms to forecast market trends. This work showcases her commitment to solving real-world problems using intelligent systems.

Through such endeavors, Dr. Anuja Naik continues to inspire her students and peers alike, proving that academic research, when aligned with practical applications, can have a transformative impact.

INTERNATIONAL COLLABORATION INTERNSHIP

Maac François

From January to May 2025, Second Lieutenant Maac François of the French Air and Space Force Academy successfully completed a research internship at Padre Conceição College of Engineering (PCCE). Guided by Dr. Anuja Naik (ECOMP Dept.) and Mr. Siddesh Savant (IT Dept.), François worked on the project "Development of Robust Defence Strategies to Enhance Security in Image Classification Systems." The internship focused on advanced cybersecurity techniques, blending academic rigor with global perspectives.



Beyond the lab, François immersed himself in PCCE's vibrant campus culture, participating in events, techfests, and sports, while also exploring the cultural richness of Goa and India. His dedication and enthusiasm contributed meaningfully to the research and left a lasting impression on the PCCE community. The college extends heartfelt appreciation to François and wishes him continued success in his professional journey.

The sessions were held under Vidnyan Dhara 2025, an initiative by the Directorate of Higher Education and Goa State Higher Education Council (GSHEC), offering students a glimpse into the evolution, impact, and challenges of electronics and technology.

VIDNYAN DHARA

Ms. Sharlaine Nicole Monteiro, Assistant Professor in the Electronics and Computer Engineering Department at PCCE, conducted insightful sessions on ***Wearable Electronics*** for students of Holy Rosary Convent High School, Nuvem, and Mahila & Nutan English High School, Margao.

Smart Devices for Smarter Living :

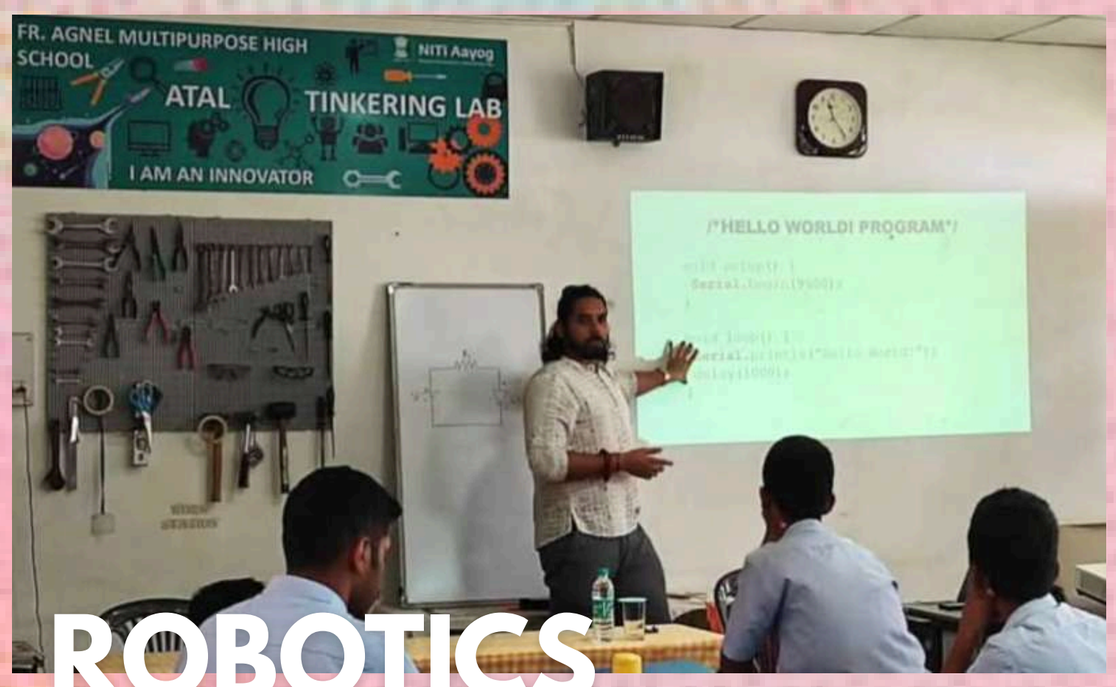
Ms. Priyanka Sarkar, Assistant Professor, ECOMP Dept, conducted captivating lectures on ***Internet of Things*** (IOT) for the students of St. Thomas High School, Cansaulim and Keshav Smruti Higher Secondary School, Alto-Dabolim.

Mr. Sanjeet Kanekar, Assistant Professor, Electronics and Computer Engineering Department lead an insightful session on ***Cyber Crimes & Cryptography*** on 11th January 2025. Students from Husn Maqil English Medium High School gained valuable knowledge on the risks of cyber crimes and the vital role of cryptography in safeguarding online data.

Ms. Raksha Singbal, Assistant Professor, EComp Department, conducted an insightful session on ***Electronics in Day-to-Day Life*** for students of Muncipal School, Vasco on 15th January 2025.

PCCE faculty joined Fr. Agnel Multipurpose Secondary School, Verna, in their "ATL Community Day" celebrations by conducting interactive and hands-on workshops. The topics covered were:

ATL COMMUNITY DAY

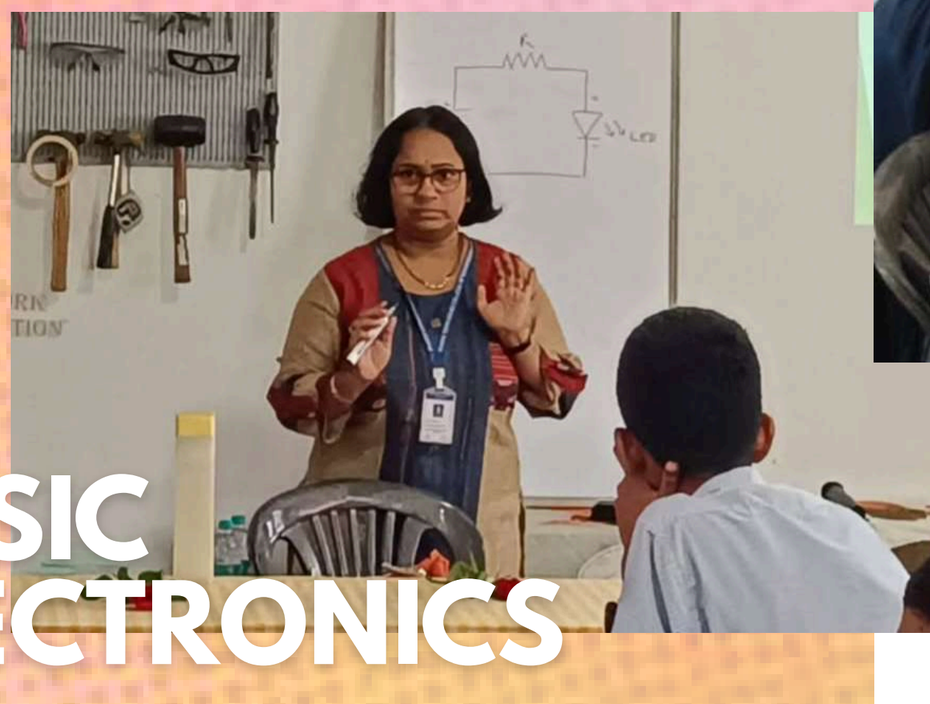


ROBOTICS

by ***Mr. Amay Desai***, Assistant Professor in Electronics and Computer Engineering department.

BASIC ELECTRONICS

by ***Ms. Rohini Korti*** and ***Ms. Raksha Singbal***, Assistant Professors in Electronics and Computer Engineering department.



DESIGN THINKING

by ***Mr. Amey Naik Dessai***, Asst. Professor in Mechanical Engineering department.

ATL Community Day was a resounding success, reinforcing the significance of practical learning to inspire students

R.A.C.E Club

Robotics in Action!

The Robotics, Automation, and Coding Engineers (RACE) Club and Institution Innovation Cell (IIC) of Padre Conceicao College of Engineering joined forces with the ATAL Tinkering Lab at Vidya Vikas Academy for an inspiring "Line Follower Bot Workshop" for students from standards 5 to 8, on 8th November 2024.

Led by our students Varad Naik, Aman Bhandare, Shivam Vishwakarma and Suraj Vishwakarma, the participants were guided through the basics of robotics-from understanding sensors to programming bots.

Beyond the Classroom: Inspiring Innovation and Excellence

Bridging Academia with Industry: Web Technology Collaboration with SJ Innovation

In an effort to align academic learning with real-world industry practices, Assistant professor sanjeet kanekar initiated a unique collaboration with SJ Innovation for Semester 5 Web Technology practicals. This initiative revamped traditional lab work by introducing industry-standard experiments and assigning mini-projects that were mentored and evaluated by professionals.
To recognize their efforts, students were awarded with certificates from SJ Innovation, boosting their confidence and enhancing job readiness. This hands-on, practical approach created a meaningful learning experience while building a strong bridge between academia and the tech industry.

in collaboration with SJ INNOVATION

From Classroom to Champions: Mentoring Victorious Student Projects at Technix

Guiding students beyond textbooks into real-world problem solving, Assistant Professor Sanjeet Kanekar had the privilege of mentoring teams whose projects went on to win top honors at Technix, a prestigious intercollegiate competition hosted by Don Bosco College of Engineering, Fatorda. One team clinched First Place in the Software category with Edu AI, an AI-powered platform designed to boost student learning, while another team secured First Place in the Hardware category with SweepDeck, a wireless gesture-based slide control system to enhance lecture delivery. These victories were not just moments of pride but a testament to how consistent mentoring and a passion for learning can translate into remarkable success stories, highlighting the importance of nurturing technical skills alongside problem-solving and collaboration.

Digital Transformation in Campus Management: Auditorium Booking App

To contribute to the institute's paperless and efficient management initiatives, assistant professor Sanjeet Kanekar developed a dedicated **Auditorium Booking Application** that streamlines the entire process—from request submission to approval and confirmation.
The application eliminates manual paperwork, reduces delays, and brings transparency to the scheduling system. With user-friendly features, automated notifications, and a central database, this digital solution has significantly enhanced the coordination of campus events while promoting sustainability through technology.

MoU signed between organising institutions towards innovation in geospatial technology

PANAJI: Exemplifying the power of inter-disciplinary collaboration, experts from science and engineering came together to explore the advancements and applications of geospatial technology in Goa and beyond at a two-day National Summit on Geospatial Technology. A Memorandum of Understanding (MoU) was signed between the organising institutions, marking a significant step toward innovation in geospatial technol-

Dr. R K Singh, former head, MR & Public Awareness BARC-Mumbai, presented on Integrated Approach in Atomic Energy for a Sustainable Future, highlighting the synergy between atomic energy and geospatial technology.
A panel discussion moderated by Joanna Pinto, Sustainable Development Consultant and Co-founder, Act for Goa and Indiewaters.net explored how geospatial technology enables community resil-

NATIONAL SUMMIT ON GEOSPATIAL TECHNOLOGY

The Department of Electronics and Computer Engineering (ECOMP) at Padre Conceição College of Engineering (PCCE) proudly collaborated in the successful organization of a two-day National Summit on Geospatial Technology, held at the Goa State Remote Sensing Centre, Verna, on February 21–22, 2025.

The event was jointly hosted by St. Joseph Vaz College, Cortalim and PCCE, in association with the Goa State Remote Sensing Centre, and brought together renowned experts from across India to discuss innovations, applications, and the future of geospatial technology.

The summit was inaugurated by Prof. Harilal Menon, Vice-Chancellor of Goa University, and included esteemed guests such as Brenda Fernandes, Head of Goa State Remote Sensing Centre, and other dignitaries. Prof. Jayalaxmi Devate, Co-convener and ECOMP faculty at PCCE, delivered the vote of thanks and represented the department throughout the event.

Distinguished speakers from institutions like ISRO, BARC, and Government College Borda, along with industry leaders from VistaMap, Goa Electronics Ltd., and Spatialcraft, led discussions on topics such as:

- Sustainable resource development using geospatial tools
- Atomic energy and geospatial synergy
- Data collection technologies
- The Unified Geospatial Framework for Goa

Hands-on sessions and panel discussions enriched the experience for all attendees, including PCCE students and faculty.

The event concluded with a valedictory function addressed by Kaustubh Kamat, Asst. Director (Academic), Directorate of Higher Education, Goa, and Prof. Dr. Maria A. R. Fonseca, among others.

The summit marked a significant step in interdisciplinary collaboration and PCCE's commitment to advancing innovation in emerging technologies.

04

STUDENTS ACHIEVEMNTS

Aditi Chodankar

(BE ECOMP)

Proudly represented **India** at the **WTT Star Contender 2025** in **Chennai** and **Goa** at the **86th Senior National Table Tennis Championship** in **Surat,** competing at the **highest level** of the sport.

Also represented **Goa** at the **28th National Youth Festival** in **New Delhi** for the **Viksit Bharat Young Leaders Dialogue. Finalist** at **IIT Bombay Techfest's MarketBuzz Case Study Competition,** where she pitched an **AI-based Autonomous Swarm ROV System** for maritime hull cleaning.

Keegan Barreto

(BE ECOMP)

Keegan was crowned **Mr. PCCE** at **Mithya 2025,** hosted by **PCCE** on **5th April**. The competition had three rounds: **Task, Talent,** and **Q&A,** where he stood out with **confidence** and **creativity.**

He also represented his college at **Mr. Tathastu** during **Tathastu 2025,** held at **Parvatibai Chowgule College** on **9th April.** Competing against top participants from across **Goa,** he aced all three rounds**—Rampwalk, Talent,** and **Q&A.**

Third Eye

Thematic Project Competition

At the **Thematic South Goa District-Level Project Competition** held at **Ravindra Bhavan** on **September 23, 2024,** the team of **Suraj Vishwakarma, Shivam Vishwakarma,** and **Sanket Rotangar** secured **third place** for their project ***"Third Eye",*** guided by **Ms. Rohini Korti.**

Building on that success, the team went on to win **top honours** at the **State-Level round** held at the **Goa Science Centre, Panjim**, on **October 16, 2024.** Under the mentorship of **Mr. Saeesh Verenkar** and **Ms. Rohini Korti,** they impressed the judges once again and earned a place among the **10 teams representing Goa at the National Youth Festival** in **January 2025.**

AeroConnect

eYantra 2025

The same trio of **Suraj, Shivam,** and **Sanket** also reached the **Top 12 nationally** at the **eYantra Innovation Challenge 2025 Finals** held at **IIT Bombay**, with a different project titled ***AeroConnect.*** The challenge pushed them to refine their ideas through direct engagement with professors, industry experts, and fellow innovators.

They credited **Dr. Saeesh Verenkar** for his mentorship and thanked **Prof. Kavi Arya**, the eYantra team, and **Rohaan Goswami** for shaping their journey. They also acknowledged the support of **Ms. Jayalaxmi Devate, Head of Department**, along with **Dr. Shailesh Khanolkar** and **Mr. Amay Desai**, marking this series of achievements as a proud milestone in their path forward.

Haptic Feedback VR Glove

Thematic Project Competition

Adrian Fernandes, Braise Fernandes, Wendel Fernandes, and **Shaikh Saihaan** secured **second place** at the **Thematic Project Competition** on **23rd September 2024** for their project ***Haptic Feedback VR Glove***, mentored by **Dr. Anuja Naik.**

SweepDeck

Technix 2024

SE ECOMP students **Sailesh Prabhu, Pranjal Kalgutkar, Devila Nair,** and **Arushi Bhatnagar** won **first place** in the **hardware category** at **TECHNIX 2024** for their project ***SweepDeck***, a gesture based slide control system, under the mentorship of **Asst. Prof. Sanjeet Kanekar.**

Edu AI

Technix 2024

TE ECOMP students **Fayaz Khan, Melanie,** and **Sahil Shinde** secured **first place** in the **software category** at **TECHNIX 2024** for their project ***Edu AI,*** an AI powered platform to enhance student learning, mentored by **Asst. Prof. Sanjeet Kanekar.**

Ivan Pereira

SE ECOMP

Ivan Pereira, student of S.E. ECOMP, won silver medals in the 100 metres Breaststroke and 100 metres Backstroke at the **Inter-Collegiate Swimming Championship** organised by Goa University. His achievements contributed to PCCE securing 3rd place in the men's section.

04

WORKSHOPS & SEMINARS

Amey Paingankr

AI Tools – Secrets to a Successful Future with AI

The Department of Electronics and Computer Engineering, in collaboration with Aarush, organized an engaging and insightful one-day workshop on Artificial Intelligence and Digital Marketing in the PCCE Auditorium. The workshop aimed to bridge the gap between emerging technologies and real-world applications, specifically in the rapidly evolving field of digital marketing.

The session was spearheaded by Dr. Amey Pangarkar, a renowned TEDx speaker and strategic marketing consultant, who was accompanied by Ms. Madhavi Nadkarni and Mr. Prasad Kulkarni, both experts in the domain. Together, the team delivered a dynamic and interactive experience that offered students valuable exposure to how AI is transforming the marketing landscape.

The event culminated in an awards ceremony, celebrating the most impactful campaigns and recognizing the efforts of all participating teams. Certificates were distributed to acknowledge the students' active involvement and successful completion of the workshop.

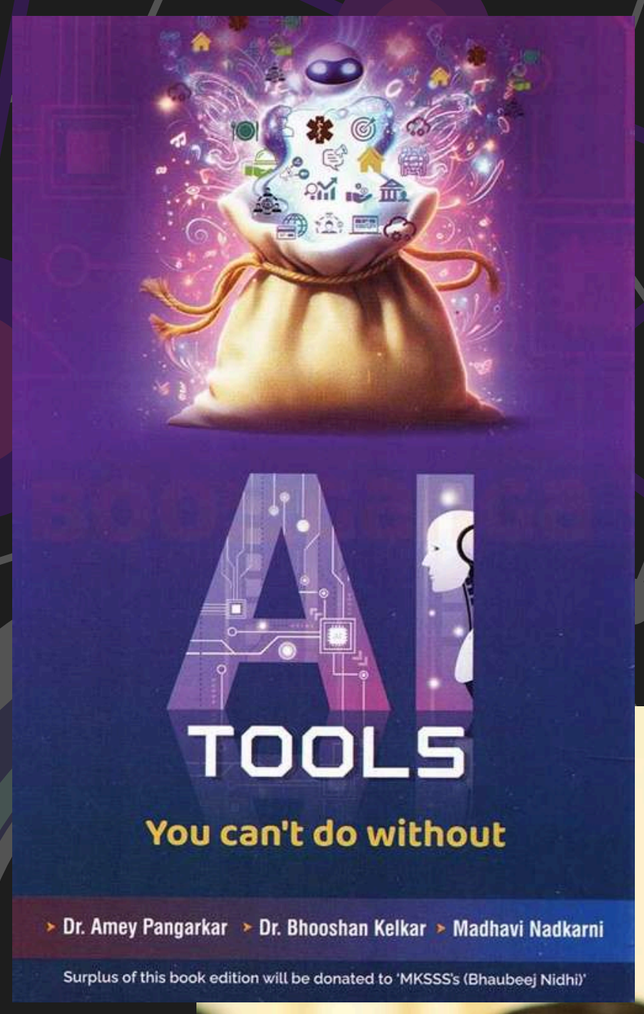
Meticulously planned and executed by the EXACTAS Council, the event was lauded for its smooth coordination, professional conduct, and enriching content. Students left the workshop inspired and equipped with knowledge they could immediately apply to academic projects, internships, or entrepreneurial ventures. Overall, the session reinforced the importance of staying ahead of the curve in a world increasingly shaped by intelligent technologies.

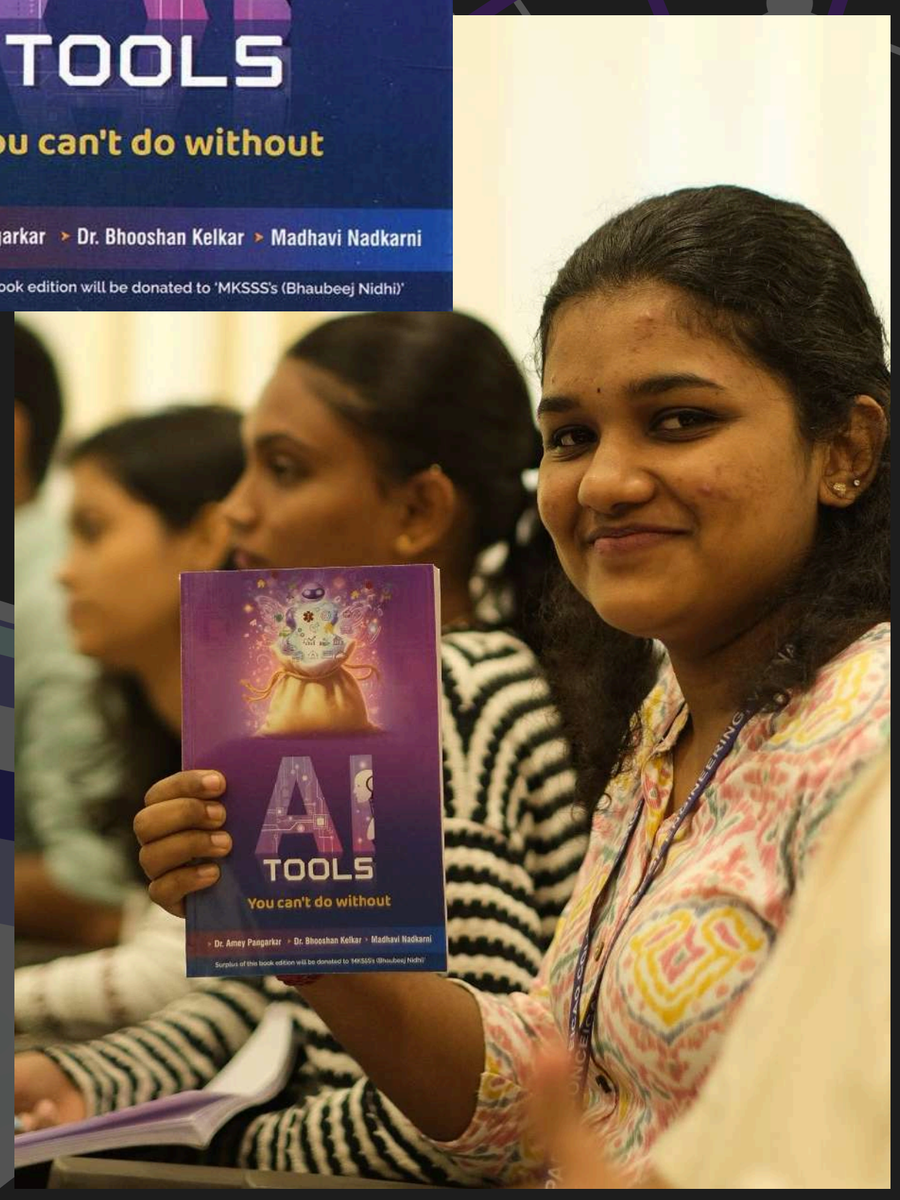
"AI WILL NOT REPLACE US, IT WILL AMPLIFY US."

– Pedro Domingos

Dr. Pangarkar captivated the audience with his powerful insights into the intersection of AI and marketing strategy. He demonstrated how AI is not just a futuristic concept but a present-day tool that enhances business outcomes. Key themes included the use of data analytics for market insights, chatbots for real-time customer interaction, AI-powered content creation for personalized outreach, and predictive analytics to anticipate consumer trends. The presenters emphasized how AI enables smarter decision-making, greater efficiency, and highly targeted communication strategies in today's digital environment.

A major highlight of the workshop was an interactive competition, where students were grouped into teams and tasked with designing AI-driven digital marketing campaigns. The challenge required participants to creatively apply the tools and techniques discussed during the session. Each team's presentation was assessed by a panel of judges based on innovation, relevance, execution, and integration of AI tools. This practical segment not only deepened student understanding but also encouraged collaborative problem-solving and critical thinking.





Workshop on

"LEVERAGING AI TOOL FOR TEACHING PEDAGOGY"

The Electronics and Computer Engineering Department, in collaboration with Aarush, organized a one-day workshop titled “Leveraging AI Tools for Teaching Pedagogy” at the PCCE Auditorium. The event was designed to empower educators with practical knowledge and experience in using Artificial Intelligence (AI) to enhance teaching methodologies. Faculty members from reputed institutions such as Carmel College, Verna, Goa University, Agnel Polytechnic, and Government College, Quepem actively participated, reflecting a shared interest in embracing innovation in education.

The workshop aimed to familiarize teachers with AI-based tools that can transform traditional classrooms into more dynamic, efficient, and personalized learning environments. Through the integration of these tools, educators can streamline classroom management, improve student engagement, and tailor lessons to meet diverse learning needs. The initiative reflected the department’s commitment to promoting future-ready education practices.

Leading the sessions was Dr. Amey Pangarkar, a distinguished expert in AI applications and a seasoned speaker. His lectures, combined with live demonstrations, provided a comprehensive overview of the role AI can play in modern education. Attendees were introduced to tools such as student performance tracking systems, automated grading solutions, virtual teaching assistants, and adaptive learning platforms designed to customize content delivery.

One of the workshop’s most impactful features was its hands-on component. Participants engaged directly with the AI tools in simulated classroom scenarios, allowing them to understand not only their functionality but also their practical application across subjects. This experiential learning approach made the concepts more accessible and increased educators’ confidence in adopting AI-based solutions.

The workshop was seamlessly coordinated by Team EXACTAS under the guidance of Professor Sanjeet S. Kanekar, with Team Aarush managing logistics and technical support. Their combined efforts ensured a smooth and professional experience for all attendees, from registration to final feedback. The well-structured format and collaborative energy contributed significantly to the event’s overall success.

The workshop received highly positive feedback from participants, who appreciated the opportunity to explore AI's relevance in education. Many expressed eagerness to implement the tools in their own classrooms and acknowledged the event’s value in expanding their teaching perspectives. The session not only strengthened the participants’ understanding of AI but also marked a significant step towards technology-integrated pedagogy.

Arduino Application Workshop

On 29th August 2024, the RACE (Robotics, Automation, and Coding Engineers) Club of Padre Conceição College of Engineering (PCCE) successfully conducted an Arduino Coding Workshop for Beginners, aimed at introducing students to the foundational concepts of embedded systems and automation. The initiative was designed to provide participants with practical exposure to Arduino programming and to ignite curiosity in the field of electronics and robotics.

The workshop began with a detailed introductory session, covering the basics of the Arduino platform—its architecture, components, and real-world applications. A live demonstration followed, where students were guided through setting up Arduino boards, writing simple programs, and interfacing with hardware components such as LEDs, buzzers, sensors, and motors. These demonstrations laid the groundwork for the participants to begin their own hands-on exploration, reinforcing their understanding through practical implementation.

The event saw enthusiastic participation from students across various branches, many of whom were engaging with Arduino for the first time. Divided into small groups, participants collaborated to complete mini-projects using the concepts taught during the session. The energy in the room was vibrant, with students actively experimenting, troubleshooting, and learning from one another. An interactive Q&A session helped clear doubts and provided deeper insights into the applications of Arduino in modern technology.

The workshop concluded on a high note, with overwhelmingly positive feedback from attendees who appreciated the structured, beginner-friendly approach and the opportunity for real-time experimentation. The event not only sparked interest in embedded systems but also motivated students to pursue further learning in automation and robotics. The RACE Club expressed its sincere gratitude to the faculty coordinators, student volunteers, and all participants for contributing to the success of the event, and looks forward to hosting more such engaging and educational workshops in the future.

SQL and NoSQL

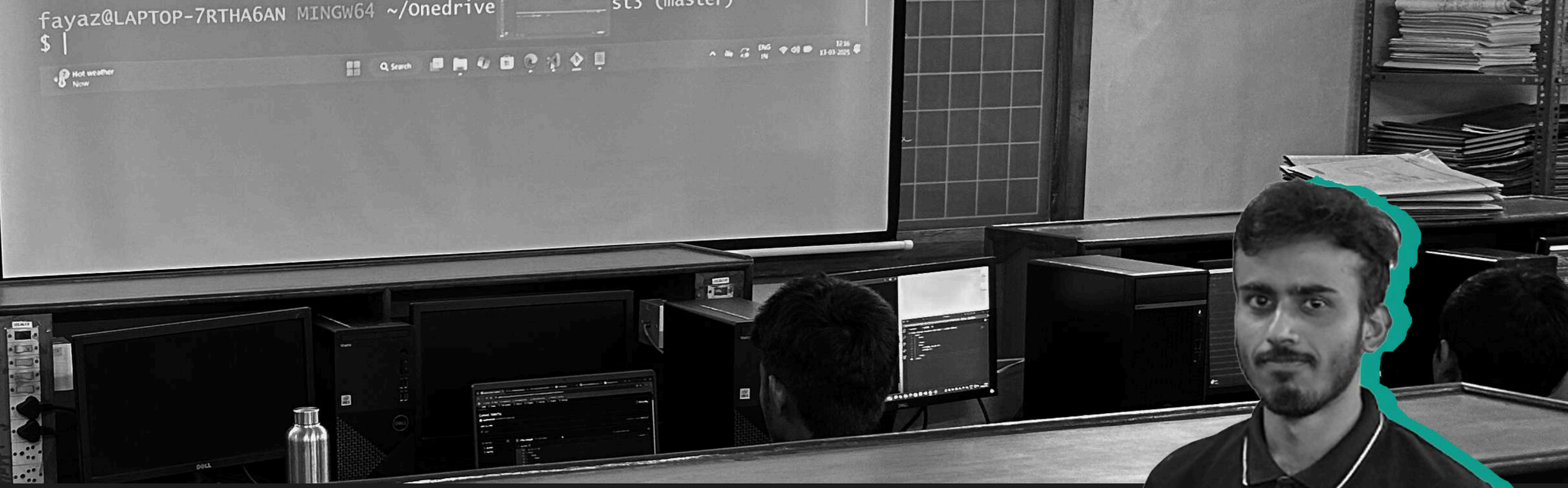
Deepali Naik

The EXACTAS Council successfully hosted an insightful session on “SQL vs NoSQL: The Revolution of Data”, providing a comparative analysis of structured (SQL) and unstructured (NoSQL) databases and their impact across industries.

Ms. Deepali Naik explained the differences in architecture, use cases, and advantages of SQL (The session covered how SQL is preferred for banking and transactions, while NoSQL is used in big data, social media, and IoT due to its flexibility. Insights were shared on roles like Database Administrator, Data Engineer, and the growing demand for hybrid SQL-NoSQL expertise in the industry.

The session saw active participation, with an interactive Q&A session addressing industry trends and practical database challenges. Ms. Deepali Naik emphasized the importance of selecting the right database for specific applications in the era of big data and AI.

The event was highly informative and well-received, equipping attendees with valuable knowledge of modern database trends.



HANDS ON WORSHOP ON VERSION CONTROL AND COLLABORATION

Fayaz Khan
TE ECOMP

The Nexus Club, under the auspices of EXACTAS, successfully organized a hands-on workshop on Git and GitHub on March 13, 2025, from 10:00 AM to 12:30 PM at EL1. The session was skillfully led by Master Fayaz Khan, a third-year student from the ECOMP Department, who provided a practical introduction to version control. This beginner-friendly event was crafted to enhance participants' skills in coding and collaboration, making it a valuable learning opportunity.

Master Fayaz Khan delivered an engaging session, diving into the essentials of Git and GitHub, including their architecture, applications, and collaborative advantages. He walked attendees through hands-on exercises like creating repositories, committing changes, and managing branches. His approachable teaching style enabled participants to quickly grasp how to manage code and work effectively in teams, bridging the gap between theory and practice.

The workshop was seamlessly executed by the Nexus Club and EXACTAS, with EL1 proving an ideal venue for interactive learning. The well-structured schedule allowed time for practice and discussion, ensuring a focused and productive experience. Participants gained a solid foundation in version control and boosted confidence in using these tools.

Feedback from attendees was overwhelmingly positive, reflecting the session's impact. Many lauded Fayaz's clarity, with one participant noting, "He turned something confusing into something I

can actually use." The hands-on approach drew praise, as another attendee shared, "Doing the exercises myself made it click—I'm ready to use GitHub now." The organizers were also commended, with comments like, "Everything was so smooth, it felt professional and welcoming." An interactive Q&A session further enriched the experience, addressing practical challenges and sparking enthusiasm among participants.

This workshop underscored the power of student-led initiatives in delivering relevant, hands-on education. It set a strong example for future events, encouraging more students to organize similar sessions to foster continuous learning and skill-building. Overall, the event was a resounding success, driven by Fayaz's expertise, the organizers' commitment, and the attendees' enthusiastic reception, equipping participants with essential tools for the evolving world of software development.

REEL MAKING WORKSHOP

On October 18th, 2024, Techyon hosted a Reel-Making Workshop that brought together students and aspiring content creators for a practical session on Instagram content creation. The workshop featured two well-known creators, Rudr Ghotge and Shailesh Rajput, who shared their knowledge and personal experiences with a highly engaged audience.

The session covered key aspects of creating effective and engaging Instagram Reels. Rudr and Shailesh explained the basics of storytelling and how to structure content so that it captures attention within the first few seconds. They emphasized the importance of clarity, pace, and relatability when planning short-form videos.

The speakers demonstrated effective editing tools and techniques like matching video cuts to music beats, using text overlays smartly, and keeping transitions smooth.

These tips helped attendees understand how even basic editing can significantly improve the quality of their content. A key highlight of the session was the discussion on earning through Instagram. Rudr and Shailesh spoke about monetization strategies such as brand collaborations, affiliate marketing, and Instagram's creator tools. They shared how they personally started generating income and gave advice on building an online presence that attracts opportunities.

The event concluded with a Q&A session and a round of applause for the guest speakers. Overall, the Reel-Making Workshop was well-received and appreciated for being informative, practical, and relevant to today's digital landscape.

UI/UX CERTIFICATION

The Electronics and Computer Engineering Department (ECOMP) of Padre Conceicao College of Engineering (PCCE) successfully conducted a Certification Course on UI/UX Design from 8th February to 10th May 2025. The course was held every alternate Saturday, consisting of 12 intensive sessions totaling 35 hours of learning.

The primary aim of the course was to introduce students to the fundamentals of User Interface (UI) and User Experience (UX) design, tools, and industry best practices. The course intended to bridge the gap between academic knowledge and real-world UI/UX applications, thereby preparing students for design-related roles in the tech industry.

The sessions were structured to cover a broad spectrum of UI/UX concepts through lectures, demonstrations, and hands-on practice using Figma, a leading UI/UX tool widely adopted in the industry. Each session was carefully planned to be interactive, with studentsworking on practical tasks and guided projects, fostering a design-thinking approach.

The sessions were conducted by the ECOMP Department faculty, who were trained in UI/UX concepts and design tools. The team included:
Mr. Sanjeet Kanekar, Mr. Satish Gangavati, Ms. Nicole Monteiro, Ms. Priyanka Sarkar, Ms. Jane Rodrigues, Ms. Sneha Mhalsekar, Ms. Raksha Singbal, Dr. Anuja Naik, Ms. Mahi Itagi, Ms. Avita Lotlikar, Mrs. Rohini Korti, and Mr. Amay Desai.

The Certification Course in UI/UX Design successfully blended academic learning with practical skill development. With such initiatives, the ECOMP department continues to nurture industry-ready engineers with technical competencies.

ALUMINI AND INDUSTRY

TECHNICAL TALKS

Shonal Fernandes
IOT Communications Protocols

Kashmira Nadkarni
Invehicle Networking

Shrushti Bhise
ICS and Future of Power Automation

Mandira Nagarshekar
Advanced Communication and Control Systems for High-Speed Rail

Shubham Bhalerao
Industrial automation and safety using PLC, SCADA and DCS

STUDENT'S CORNER

Handball: The Ultimate High-Energy Game You Might Be Overlooking

Let’s talk About handball the fast-paced, high-energy sport that somehow remains under the radar. If you’ve ever wanted to combine the thrill of basketball, the speed of soccer, and the chaos of dodgeball, handball is the perfect match for you.

So, what is handball? Picture this: two teams, each with seven players (including a goalie), passing a small ball back and forth using only their hands while trying to score in the opposing team’s goal. Sounds simple? Not quite. These athletes sprint, jump, twist, and throw with incredible force all while dodging defenders who aren’t afraid of a little body contact.

What makes handball such a rush is its pace. Games are played in two 30-minute halves, and the action never really stops. The ball is constantly in motion, and goals come quickly. We’re talking scores in the 20s or 30s forget those low-scoring football matches. Here, blink and you might miss a goal.

One of the coolest aspects of handball is that it’s a sport anyone can pick up. Whether you’re tall, short, built like a tank, or speedy like a gazelle, there’s a place for you on the court. And it’s not just a “European thing” anymore handball is growing all over the world, with local clubs and school leagues popping up everywhere.

And let’s talk about the goalie. Imagine standing in front of a goal, knowing a ball could be hurled at you at 80 km/h and somehow, you’re expected to stop it. It’s quite heroic, really.

Handball isn’t just about physical strength, either. It requires teamwork, strategic plays, and quick decision-making. Plus, it’s a blast to watch. Once you get into it, it’s absolutely addictive.

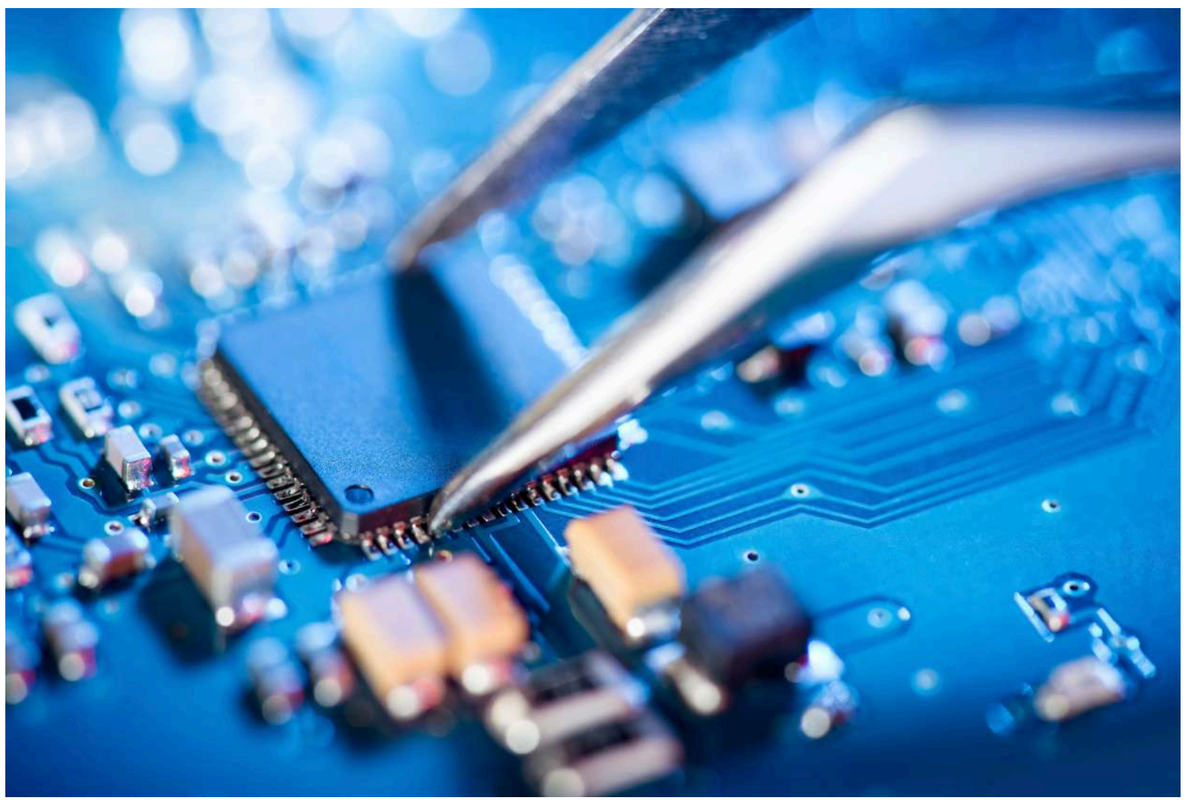
So, next time someone asks what sport you’d choose to play in an alternate life, don’t say cricket or football. Say handball. Be the cool one. You’ll thank me later.

Caden Menino Estrocio
FE ECOMP

The Invisible Architect: Silicon’s Blueprint for Energy Evolution

Envision an invisible force working diligently behind the scenes—a silent maestro, carving the fate of our energy network. Yet without it, the transition to a greener, and more sustainable energy would be a distant dream.

On the surface, silicon might seem like an unremarkable element, with no importance—mainly a mundane ingredient in sand. Yet, you'll discover that silicon is the humble trailblazer, the unheralded champion of some of the most important advancements in energy systems today. In the today’s era silicon has a position so ubiquitous that it can be said to be the very heartbeat of contemporary energy.



Silicon Synapses: Wiring the Brain of the Smart Grid

Conventional power grids are linear in operation—producing power in central plants and transmitting it along a one-way path. But with growing demand, renewable integration, and distributed generation becoming more prevalent, a more responsive and intelligent system is needed.

Embedded within microcontrollers, sensors, processors, and communication modules. These silicon-based systems facilitate real-time monitoring, two-way communication, and auto-control across the grid. Integrated silicon chip-powered smart meters monitor energy consumption in real time, flagging any abnormalities, and mapping back data to consumers as well as utilities.

Moreover, silicon plays a crucial role in power electronics, especially in smart inverters and converters, which regulate voltage and frequency for variable renewable inputs for systems such as solar and wind. With these advance breakthrough, silicon enhances the grid -maintaining stability, operate more efficiently, and enable demand response.

Harvesting the Sun: Photovoltaic Power

Silicon is the foundation of over 90% of solar panels, converting the energy of the sun into electricity to power homes, industries, and energize the world. Silicon's semiconductor nature makes it an exceptionally efficient converter of sunlight into electricity. New technologies such as PERC and bifacial solar cells, which absorb light from both sides of the panel, are advancing efficiency to unprecedented levels while driving down costs, fuelling the world's transition to clean energy.

The Energy Vault: Silicon's role in Next-Gen Storage

With increasing expansion of renewable energy generation, energy storage has emerged as a cornerstone to grid stability. The unpredictability of solar and wind power necessitates batteries with the ability to store excess energy to supply it when needed. Here, too silicon is moving into a revolutionary position by replacing traditional lithium-ion batteries which use graphite anodes, by silicon-based anodes which can store up to ten times more energy. This increased energy density can result in battery longevity, rapid charging, and increased overall efficiency qualities that are crucial for electric vehicles, grid-scale, and portable electronics.

Challenges such as silicon swelling during charge cycles are being overcome by nano structuring and composite hybrid engineering. With these advances reaching maturity, silicon batteries stand poised to remake the storage game.

The Rise in Voltage: The Silicon Carbide Surge

Although pure silicon still remains at the core, its byproduct—silicon carbide (SiC) is paving the way for a new generation of high-performance power devices. SiC's wide bandgap permits operation at higher voltage, temperatures, and frequencies accompanied by decreased energy losses. Thus being well suited for electric vehicle chargers, renewable energy inverters, and industrial motor drives.

Also, the emergence of silicon photonics—blending optical communication with conventional silicon processing is speeding up and streamlining data transfer in energy monitoring and control systems.

How Silicon Helped Revolutionize India's Energy Odyssey.

Empowering Solar India

Leveraging India’s solar potential, silicon-based PV modules is the foundation to achieve the target of 500 GW renewable capacity by 2030, providing clean energy to even the most remote areas of the country. Local manufacturing under “Make in India” will further boost the economy and provide employment opportunities.

Smart Grids for a Smart Bharat

Silicon microcontroller-based smart grids, smart meters, and real-time analytics can dramatically enhance efficiency, curb theft, and enable **24/7 electricity access**, especially in underserved regions.

Storage & EV Growth:

Silicon anodes and SiC converters will increase battery performance, stabilize the grid, and support the electric mobility revolution, reducing pollution and oil consumption.

Towards Energy Equity and Sustainability

Silicon makes decentralized systems solar microgrids possible, empowering remote villages, lowering carbon footprints, and resonating with India’s vision of **sustainable development** and **Atmanirbhar Bharat.**

Silicon, often overlooked is quietly charting the course toward a sustainable energy future, forming the backbone of innovations—from solar energy to smart grids and advanced storage solutions it has redefined what’s possible in the realm of clean energy. As we pioneer new frontiers, silicon is not just evolving; it is propelling us ahead where energy is smarter, more efficient, and more accessible. **Silicon isn’t just a material—it is the catalyst for a brighter, more resilient tomorrow.**

Wanya De Souza
FE ECOMP

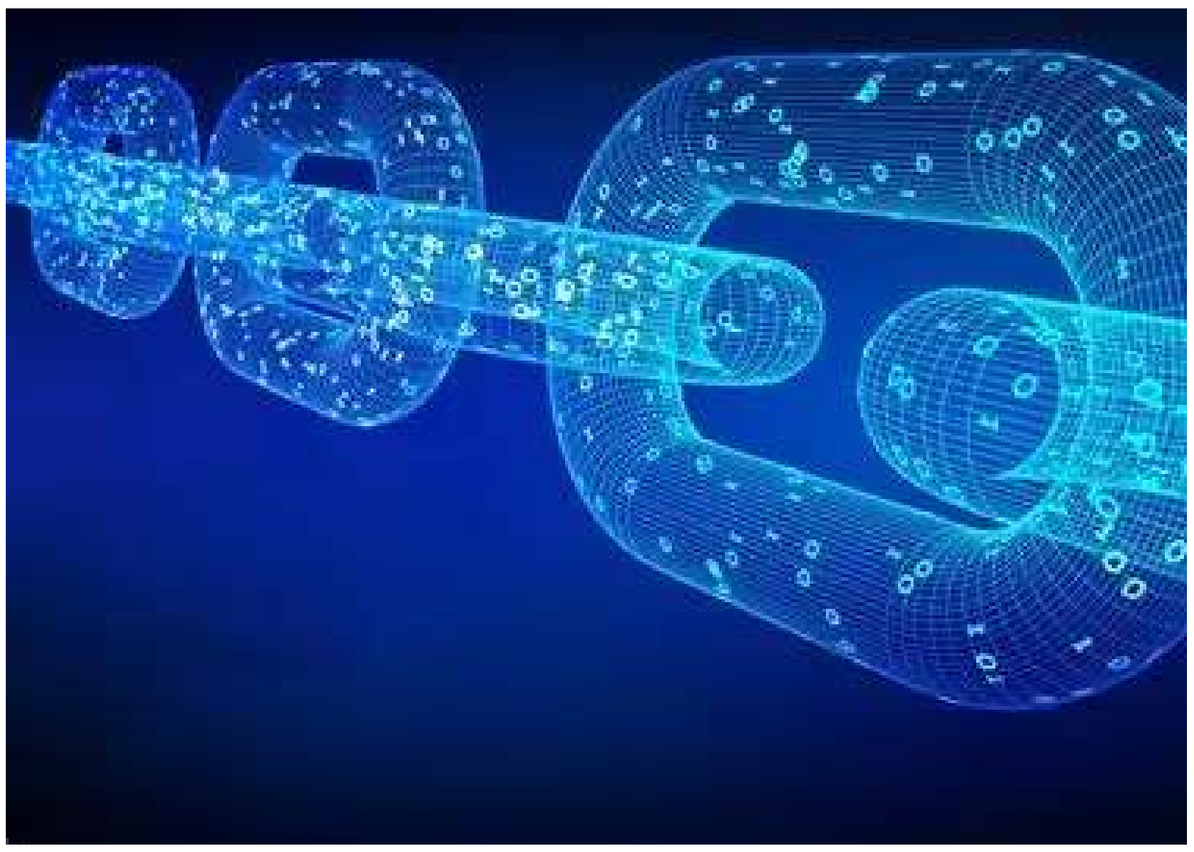
Why Countries Like the UAE Are Embracing Blockchain - And Why India Should Too

In today's fast-moving digital world, one technology that's caught my attention is **blockchain**. It started out as the foundation for cryptocurrencies like Bitcoin, but it has now grown into something much bigger. Blockchain is being seen as a way to transform how governments, businesses, and people store and share data—securely, transparently, and without relying on a single authority.

One country that's already taking blockchain seriously is the **United Arab Emirates (UAE).** Their government launched the **UAE Blockchain Strategy** back in 2018 with a goal to digitize 50% of all government transactions using blockchain by 2021. That's not just a tech upgrade—it's a major shift in how a country functions.

Why Blockchain?

So what makes blockchain so special? At its core, blockchain is a decentralized and tamper-proof digital ledger. Once something is recorded on it, no one can change it—not even the government. That's a big deal when it comes to things like land ownership, identity verification, money transfers, and even voting. Countries like Estonia, Singapore, and Switzerland are also adopting blockchain to run smoother and more transparent systems. It's not just about going digital — it's about **building trust.**



Where It's Being Used ?

Here are some areas where blockchain is already showing its power:

- **Government Services:** For secure public records like birth certificates, licenses, and voting.
- **Finance:** For faster, safer, and cheaper payments using digital currencies or blockchain-based systems.
- **Supply Chain:** For tracking goods from manufacturer to customer with full transparency.
- **Healthcare:** For storing and sharing medical records without risking patient privacy.

Benefits of Blockchain

From what I've seen and researched, here are some of the main pros of adopting blockchain technology:

- **More Transparency:** Everyone sees the same data, which makes it harder to hide corruption or fake records.
- **Lower Costs:** Automation and removing middlemen can save a lot of time and money.
- **Better Security:** Blockchain's design makes it very hard to hack or manipulate.
- **Boost to Innovation:** It opens up opportunities for startups, developers, and tech companies.
- **Global Leadership:** Countries that adopt early can help shape the rules and become global leaders in tech.

But It's Not Perfect

Even though blockchain sounds like the answer to everything, there are some real challenges too:

No Clear Laws Yet A lot of countries don't have proper regulations in place.

- **Energy Use:** Some blockchains (like Bitcoin) use a ton of electricity.
- **Scalability:** As more people use it, blockchains can slow down or become expensive.
- **Tech Barriers:** Not everyone has the skills or access to understand and use blockchain.
- **Scams & Hype:** A lot of shady projects use the word "blockchain" just to attract attention.

My Opinion

Personally, I think the UAE is doing the right thing by investing in blockchain early. It shows they're not afraid to lead and innovate. They're looking ahead and building systems that can run smoother, faster, and with more trust from their people.

And honestly, **I believe India should do the same.**

We have a huge population, tons of paperwork, and many systems that are still outdated. Imagine if land records were stored on blockchain—no more property fraud. Or if public welfare schemes ran on smart contracts—money would reach the right people directly. Even our voting system could be safer and more reliable.

India is already a tech-savvy nation with talented developers and a strong digital push. If we start using blockchain properly now, we could solve real-life problems and become a global leader in this space.

Yes, there will be challenges. But with the right planning, education, and regulation, blockchain could help India leap into a more transparent and efficient future. It's not just about keeping up—it's about taking the lead.

Vardan Ananthu
SE ECOMP

Electrical and Computer Engineering: Powering the Future of Technology

Electrical and Computer Engineering (ECE) is one of the most versatile and impactful branches of engineering today. It blends the core concepts of electrical engineering with computer science to design, develop, and improve systems that drive modern life. From smartphones and autonomous cars to renewable energy systems and artificial intelligence, ECE is at the heart of technological progress.

What Does ECE Involve?

ECE encompasses a wide range of fields, including:

- **Electrical Systems and Power:** Designing systems for the generation, transmission, and efficient use of electrical energy, including renewable sources like solar and wind.

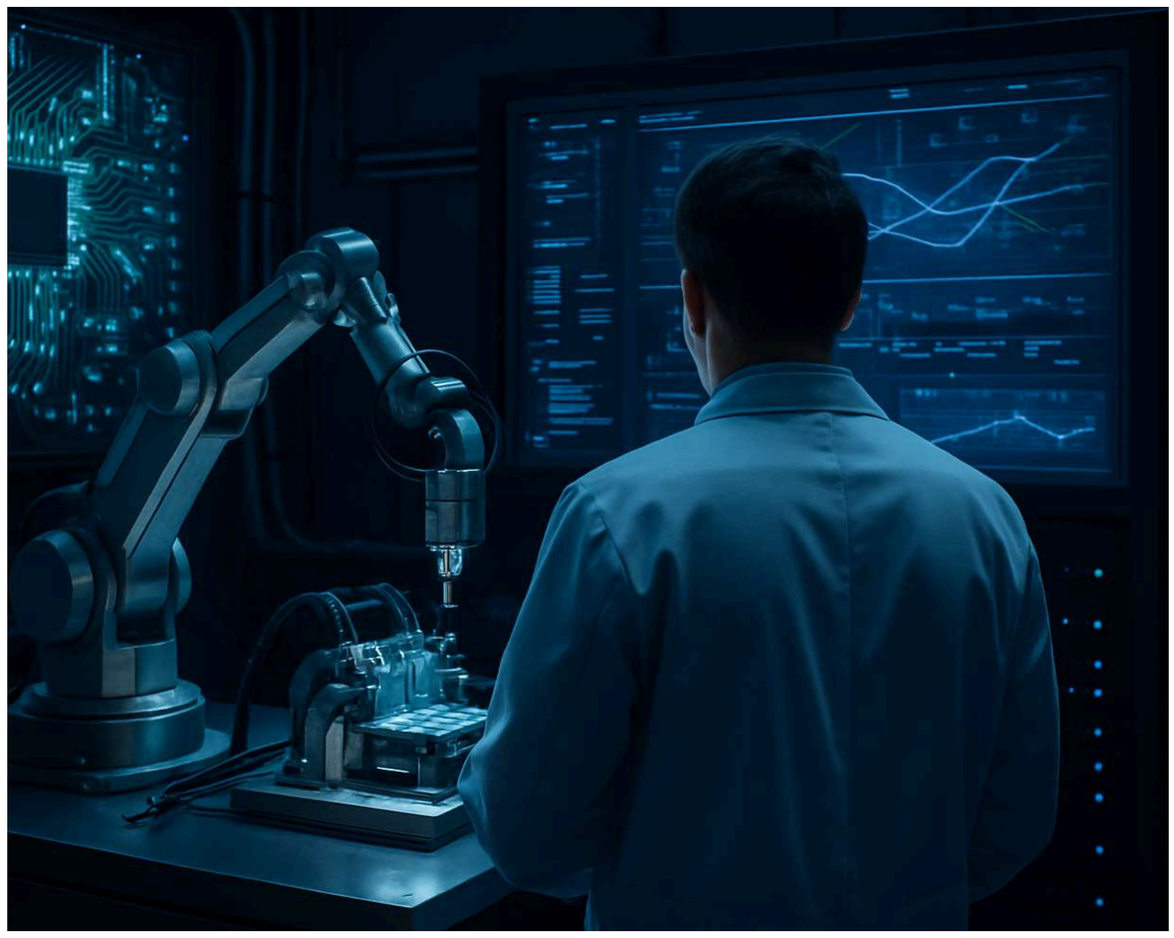
- **Electronics and Embedded Systems:** Creating circuits, sensors, and microcontrollers that power devices from medical instruments to smart appliances.

- **Computer Engineering:** Focusing on hardware like processors, memory systems, and motherboards, as well as the software that controls them.

- **Communication Systems:** Enabling wireless technologies, satellite communication, and the internet through signal transmission and processing.

- **Control Systems and Robotics:** Developing intelligent machines and systems that can automate tasks or adapt to their environment.

- **Software and Machine Intelligence:** Programming algorithms and systems that learn from data, especially in areas like machine learning and data security.



Real-World Applications

ECE drives innovation in numerous sectors:

- **Consumer Electronics:** From smartphones to smart TVs, ECE makes devices faster, smarter, and more efficient.

- **Healthcare:** Designing imaging equipment, monitoring systems, and biomedical devices.

- **Transportation:** Building technologies behind electric vehicles, traffic control systems, and navigation.

- **Energy:** Enhancing the performance of solar panels, wind turbines, and energy storage systems.

- **Automation and AI:** Powering robotics, industrial automation, and intelligent computing.

Career Opportunities

ECE offers strong career prospects across industries like tech, aerospace, automotive, healthcare, and finance. Graduates often pursue roles as:

- **Electrical or Electronics Engineer**
- **Computer Hardware Engineers**
- **Software Developers or Systems Analysts**
- **AI or Robotics Engineers**
- **Research Scientists or University Faculty**

Looking Ahead

The future of ECE is incredibly promising, with new frontiers like quantum computing, 6G networks, sustainable energy systems, and smart infrastructure leading the way. As technology becomes more integrated into daily life, ECE will continue to be a driving force behind innovation and global development.

Nashon Kleeman Fernandes
SE ECOMP

Practical Learning Through Participation: A Gateway to Innovation and Growth

In today's technology-driven world, where innovation shapes industries and careers, theoretical knowledge alone is not enough. For college students, participating in technical events such as hackathons, coding marathons, robotics competitions, workshops, and tech fests offers a vibrant platform to turn classroom learning into practical expertise. These events are more than just opportunities to showcase talent; they serve as powerful avenues for innovation, skill development, and career advancement. Here's why taking part in such events can be a transformative experience for students.

Hands-On Learning: From Theory to Practice

Technical events provide an environment where students can apply concepts learned in lectures to real challenges. Coding an app during a 24-hour hackathon or designing a circuit for a robotics contest encourages students to think beyond textbooks. For example, a computer science student may study data structures in class, but a competitive programming event helps them learn to optimize algorithms under time pressure, closely simulating real-world problem solving.

Workshops at tech fests introduce students to modern technologies such as artificial intelligence, blockchain, or 3D printing. These sessions offer direct experience with industry tools and frameworks, making learning more tangible. A 2023 study by the National Association of Colleges and Employers revealed that 82 percent of students who participated in technical events felt more confident applying academic knowledge in practical settings.

Fostering Innovation and Creativity

Technical events are strong platforms for creativity and innovation. Hackathons and project showcases push students to brainstorm solutions to real problems, from sustainable energy models to healthcare applications. The process of thinking, building, testing, and improving ideas nurtures an entrepreneurial mindset and prepares students to become future innovators.

Many events encourage teamwork across different disciplines. When coders, designers, and engineers collaborate to create a smart device, they learn to combine different perspectives, which is an essential skill in technology development. In 2024, the Google Developer Student Clubs reported that 65 percent of students who took part in such collaborative events went on to develop independent projects or launch startups.

Developing Essential Skills for the Future

Beyond technical know-how, these events also help students build valuable soft skills. Working in a team teaches communication, leadership, and conflict resolution. Solving time-based challenges improves time management and adaptability. Presenting a project to judges or professionals builds confidence and improves public speaking. According to a 2024 LinkedIn survey, 87 percent of hiring managers prioritize candidates with strong problem-solving and teamwork skills, which are naturally developed through participation in technical events.

Networking and Career Opportunities

Technical events also connect students with peers, mentors, and professionals. Tech fests often host talks by leaders from top companies, giving insights into current trends and expectations in the field. Engaging with these speakers can lead to mentorship, internships, and even job offers. Many students from well-known events like HackMIT or Smart India Hackathon have earned roles at leading organizations after showcasing their work.

Participation also strengthens a student's resume. A certificate from a well-recognized competition or a project portfolio on GitHub shows initiative and technical ability. Recruiters often attend these events to discover new talent, making them a direct gateway to job opportunities.

Overcoming Barriers and Building Confidence

For many, the idea of joining a technical event can feel intimidating, especially without prior experience. However, most events are open to beginners and include supportive workshops and simple challenges. Starting with smaller events or volunteering can help build confidence. Every experience, whether it ends in success or not, builds resilience and encourages a mindset focused on learning and growth.

A Launchpad for Growth

Participating in technical events is a valuable investment in both personal and professional development. These experiences help students build real-world skills, spark creativity, and open doors to exciting career paths. They encourage students to move from passive learning to active creation, preparing them to meet the challenges of today's fast-changing world. Students are encouraged to explore the next event at their college, whether it is a hackathon, tech fest, or workshop, and take the first step toward a brighter and more confident future.

Rhugved
TE ECOMP

Guided by Trust: Finding Direction in a Confusing World

"Trust in the Lord with all your heart and lean not on your own understanding; in all your ways submit to him, and he will make your paths straight." - Proverbs 3:5-6

In today's world, young people face immense pressure. From academic demands to career choices, social expectations to personal struggles, the path to adulthood can often feel confusing and overwhelming. It's easy to feel lost, anxious, or unsure of what to do next. In the midst of all this, Proverbs 3:5-6 offers timeless wisdom and hope: we are not meant to navigate life on our own.

The verse begins with a clear invitation-"Trust in the Lord with all your heart." This is not about trusting God only when life is easy or when things go our way. It's a deep, full surrender of our plans, worries, and questions. It challenges today's youth to stop relying only on what they see or understand and instead believe that God has a purpose, even when life feels uncertain.

"Youth" is often associated with independence, ambition, and exploration. While these are good qualities, this verse reminds us that our own understanding has limits. We don't always know what's best for us, and our emotions or situations can cloud our judgment. But when we submit our ways to God by praying, seeking his word, and aligning our actions with his values. He promises to guide us. "He will make your paths straight" means God will lead us where we are meant to go, clearing confusion and giving direction.

For today's youth, this verse is a call to pause and shift focus. Instead of chasing success, popularity, or perfection, we're invited to chase God's will. Trusting Him doesn't mean life will be perfect, but it means we will never walk alone. His plans are greater than our own, and when we allow Him to lead, we find peace, purpose, and a path that is truly straight.

Sania Barreto
SE ECOMP

Void

I saw the void within her heart
I felt nothing but paranoid.
My heart static, felt paralyzed
Unable to sense the void within.
I reached for words but none made concluded the feelings,
Like echoes lost in wind .
silence screamed,
A whisper carved beneath.
I watched her fade, slowly losing sight,
As shadows disappeared in distant light.
No glance behind, no last goodbye,
Just hollow steps beneath my void.
And in that pause, so cold,
I met the emptiness she tried to hide.
Now void grow's where once she stood,
A stillness I've misunderstood.
I carry the void in my chest,
Of love unlived, and dreams unblessed.

Arfaz Sakali
FE ECOMP

Her Ego, Her Crown

When storms rolled in and doubts raised
When dreams felt unreal, hidden in fears,

Not every fire is bound in worth
But each small step can light the way
So dream in dark, and rise anyway.

Be the one you want to be,
Follow your dreams as you have seen
You hold the power to be unique in your bloodline
So be ready to say now the empire is mine.
Let failure teach, let boldness rise.
The path is yours – make it wise.

They said "you can't" – she just smiled
Each "no" they threw, mocking tone
She carved in silence, stone by stone.
She held her pride,
and let that ego be her guide.

They told her "you won't last" but they forgot –
She learns from failures and past.

She is not loud, she is not cruel – but sharp and keen
A queen who is rising from something which is unseen.

Sakshi Verma
FE ECOMP

I Fear

I think it's fear
Ropes of fear and despair
that have been holding me back...
The fear of being disliked
The fear of failure
The fear of being something I'm not
It feels like I'm trapped
in a wooded misty maze
where making sense of things
simply fries my brain.
But why am I so afraid
and why am I so unsure
Why do I so desperately
want to hide myself right here?
I'm surrounded by the loveliest people ever
and yet a part of me just wants to disappear.
It feels like I'm putting on a show,
a perfect camouflage
trapping my insecurities
underneath a mask.
Someday I hope I can finally see it all.
But maybe everything's clear,
But my fear,
Draws a curtain to it all.

-Anonymous

04

ACADEMIC VISIT

FIELD

FIELD TRIPS

FE ECOMP visited DIGISOL

SE ECOMP visited ZIMETRICS

SE ECOMP visited NIO

TE ECOMP visited CREATIVE CAPSULE

COLLEGE EVENTS

COLLEGE EVENTS

TECH

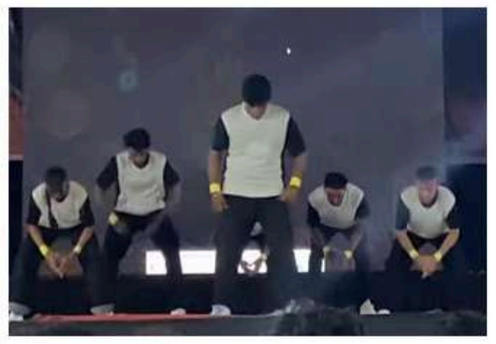
HYON

The Electronics and Computer Department brought their A-game to Kurukshetra 2024. With unwavering team spirit and fierce determination, our students participated in a wide range of events—from basketball and football to tug-of-war and track events—showcasing not just athletic skill but also unity and sportsmanship. Their enthusiasm, energy, and commitment lit up the field, making the department a proud and memorable part of this year's sporting celebrations.

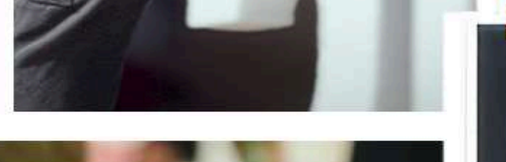
Kurukshetra



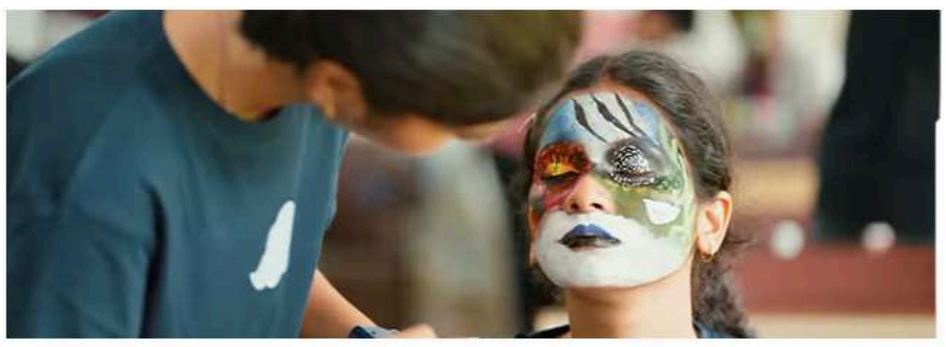
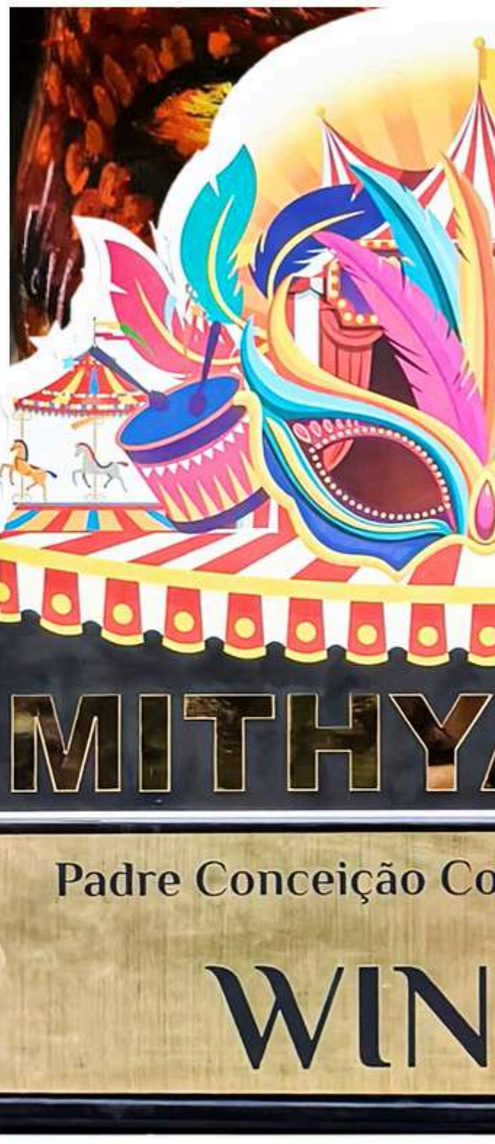
















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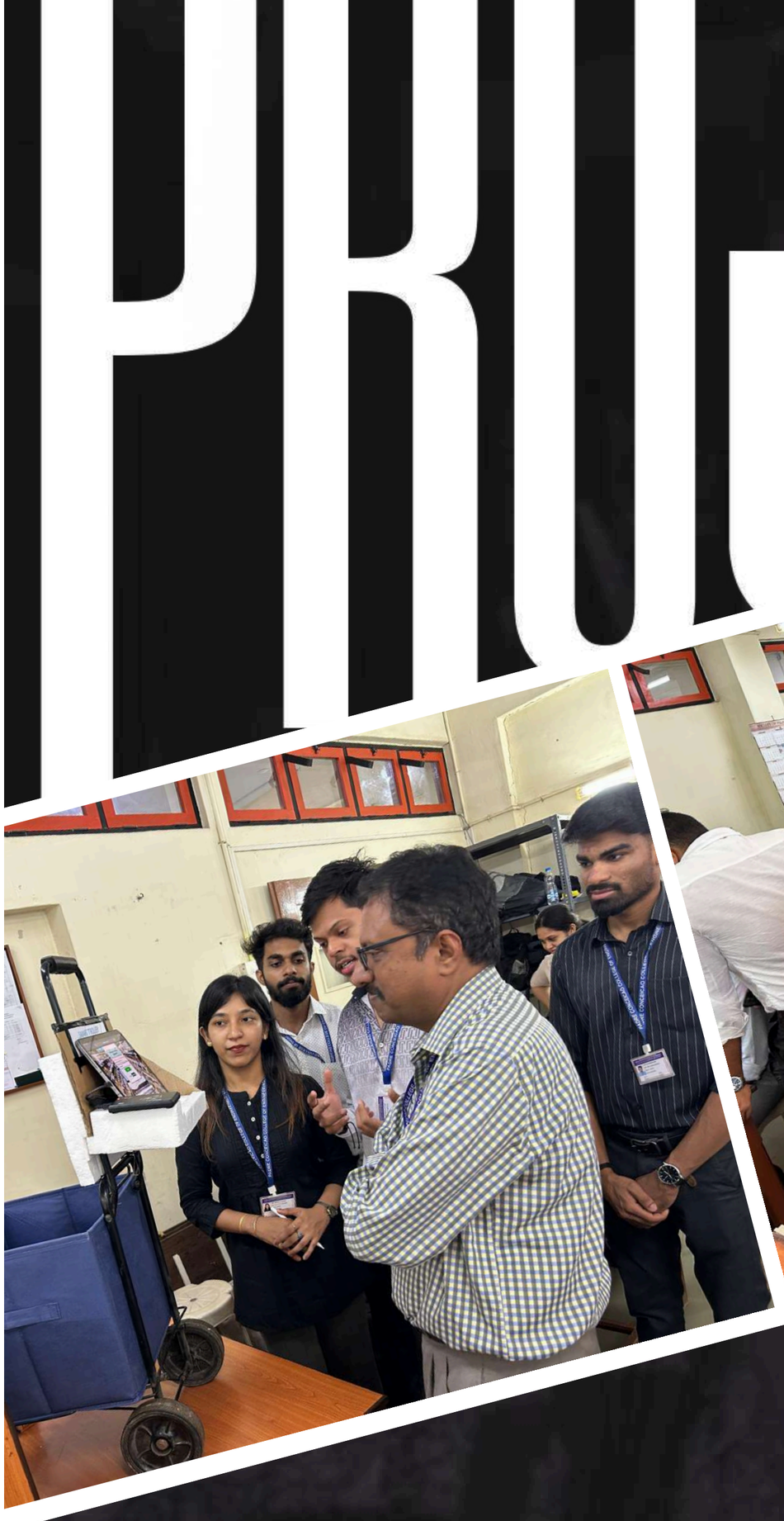
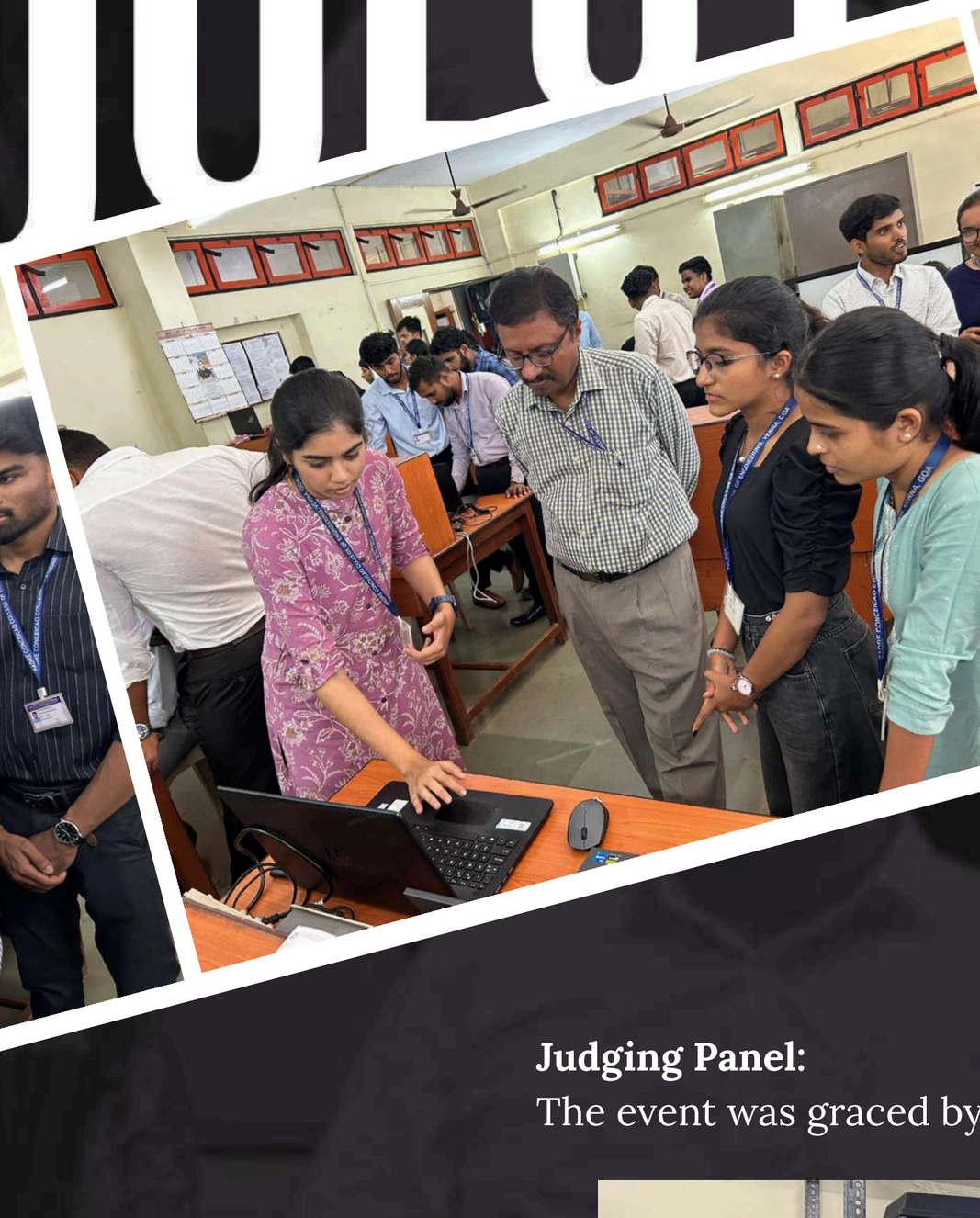
WINNER

PROJECT EXHIB





The Department of Electronics and Computer Engineering (ECOMP) at Padre Conceicao College of Engineering (PCCE) organized its annual Final Year Project Exhibition on 9th May 2025. The event served as a platform for final-year BE students to present their innovative and impactful engineering projects developed over the academic year.

The exhibition aimed to encourage practical application of theoretical concepts, foster innovation, and enhance technical communication skills among students. It also provided an opportunity for peer learning and industry-academic engagement.

A total of 20 project groups participated, covering a diverse range of topics spanning embedded systems, human-computer interaction, security, automation, and IoT.

Judging Panel:

The event was graced by two esteemed external judges:

Dr. Samarth Borkar, Professor, Goa College of Engineering, Farmagudi, Ponda, Goa

Ms. Prashila Borkar, Assistant Director, Directorate of Information Technology, Government of Goa, Altinho Panjim , Goa

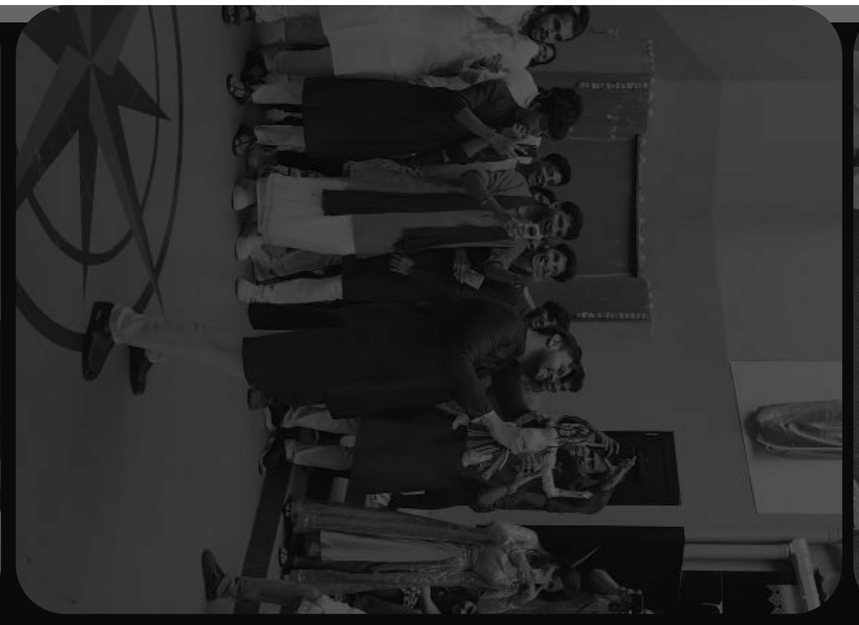
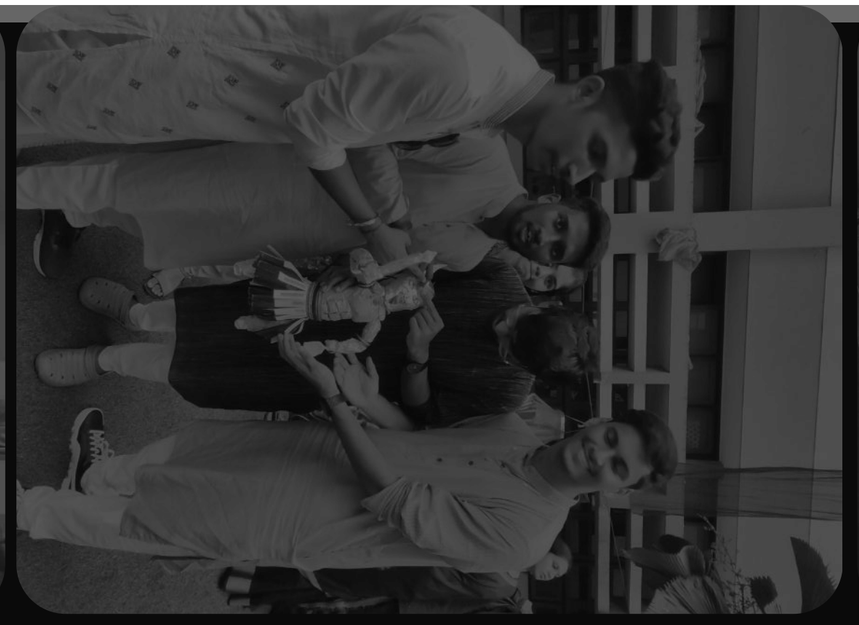
RITION

Winners:

🥇 First Prize
Project: Eye Gaze Controlled Mouse Cursor
Team: Varad Rajesh Naik, Abhijeet Singh, David Joshua Fernandes, Aaron Francisco Gonsalves

🥈 Second Prize
Project: Hand Gesture Controlled Drone
Team: Nathan Joshua Rodrigues, Dawson Dominic Coelho, Keegan Barreto, Shreyash Waghmode

🥉 Third Prize
Project: Multi-User Authentication using Biometric Sensor
Team: Sharv Shripad Shetye, Sufiyan Farook Munshi, Varad Sunderrao Kerkar, Vipul Vidhyadhar Talekar

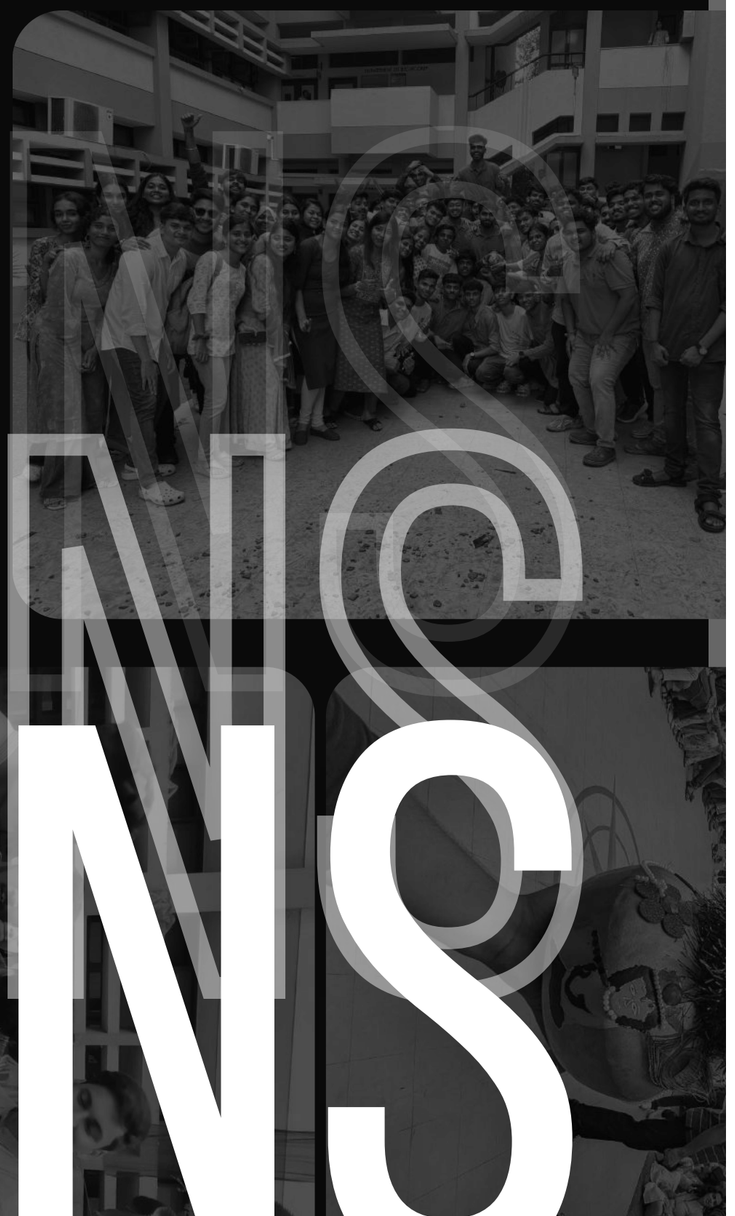






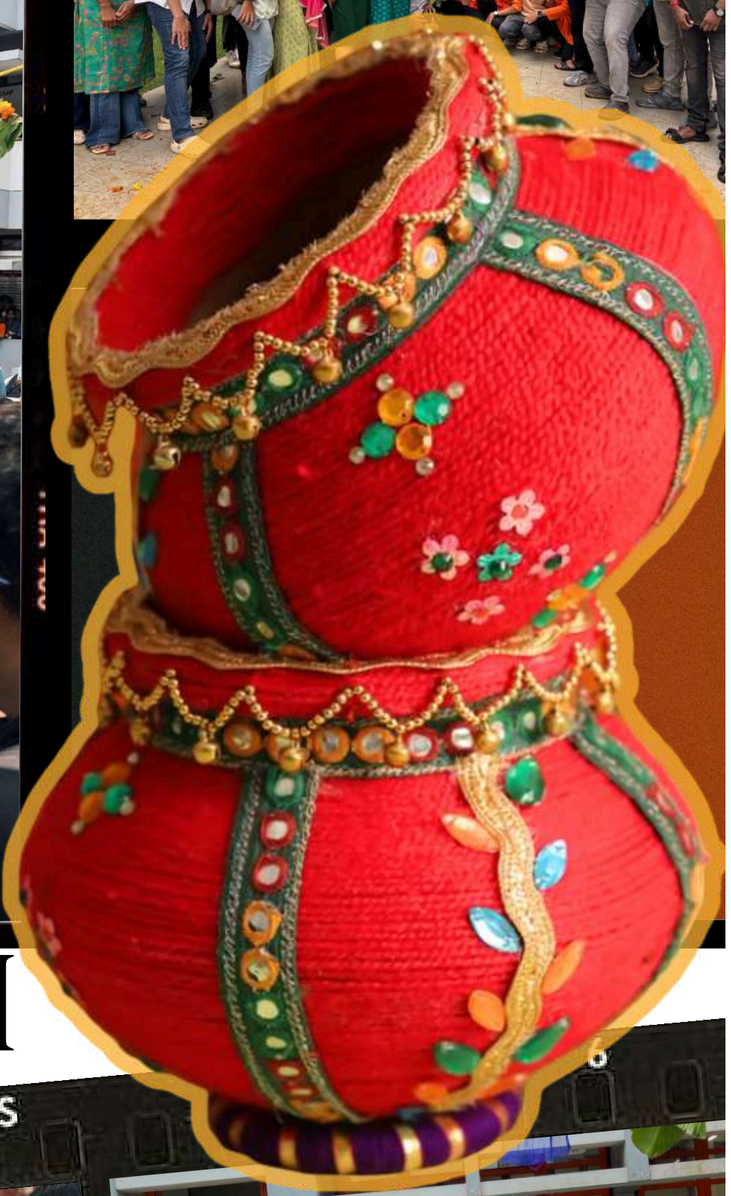




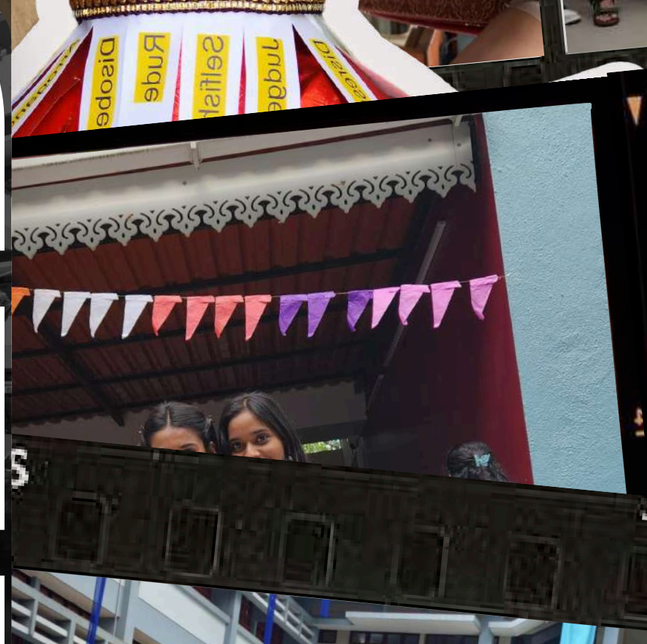


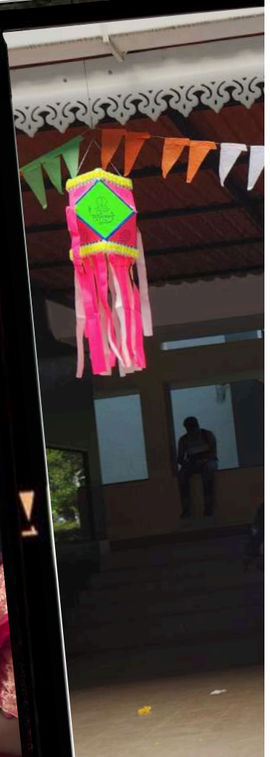



CELEBRATIONS



JANMASHTAMI





DIWALI

Farewell

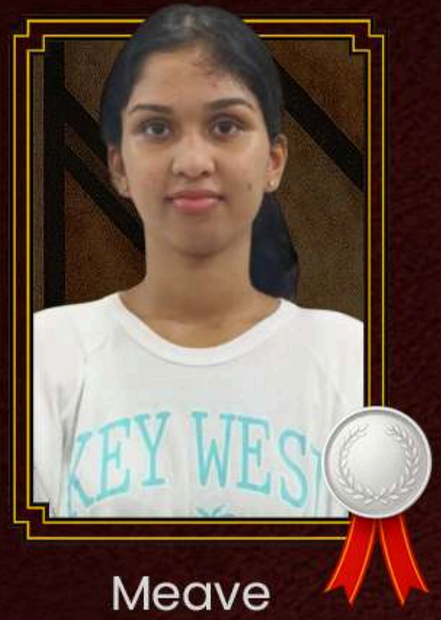
Goodbyes are hard, but they're also proof of how much you've meant to us. Thank you for filling the campus with your wisdom, laughter, and energy. We'll miss you dearly, but we're excited to see the amazing things you'll achieve beyond these walls. Once a part of us, always a part of us.

What mattered most wasn't the events, but the people who made them unforgettable.

Hall O

First Year

Ashna
Rajesh Naik



Meave
D'Souza

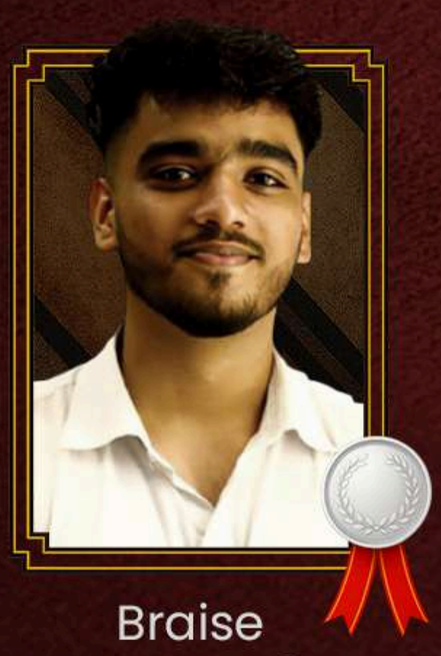
Affaan
Shaikh

Natasha
Periera

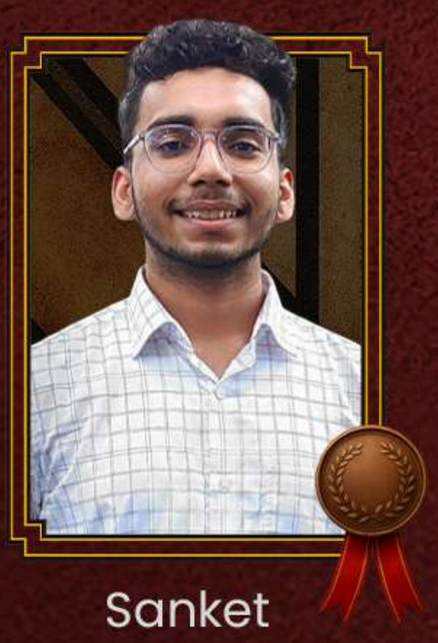
Neel
Prabhu Desai

Second Year

Adrian
Fernandes



Braise
Fernandes



Sanket
Rotangar

f Fame

Third Year

Sharvari
Birje

Tanisha
Shenvi Kantak

Ritika
Naik

Fourth Year

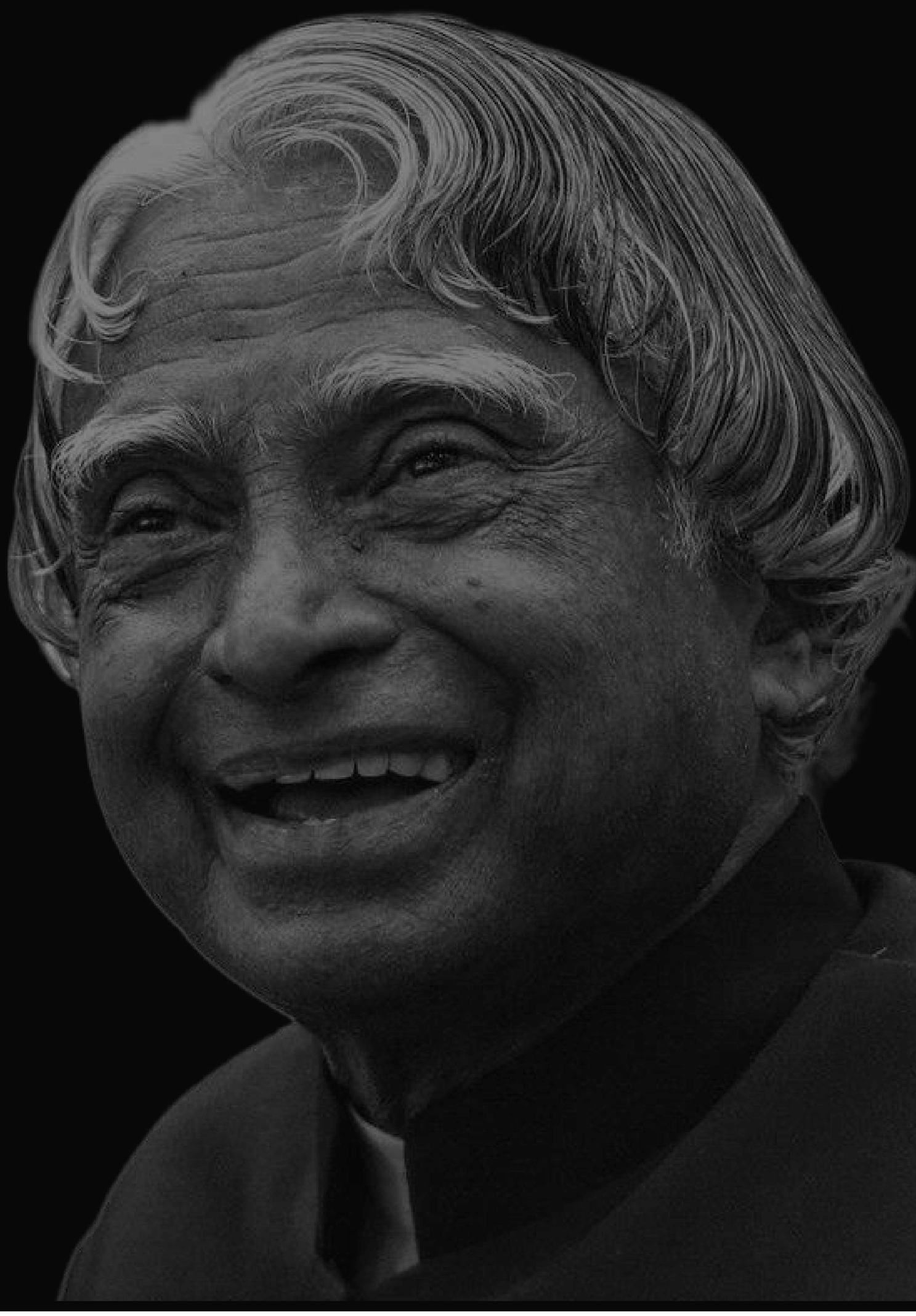
Anjana
P.A

Arya
Shet Shirodkar

Anushri
Redkar

Excellence happens not by accident.
It is a ***process.***

-A. P. J. Abdul Kalam



Placements

Godrej

Tanisha Kantak

Keegan Barreto

Sherwin Fernandes

KILOWOTT
A NORDIC INTENT COMPANY

IFB

Ritika Naik

Aditi Chodankar

Darlene Figueiredo

MEGALON

Insights Media

Shruti Sen

Vidhi Kumbharjuvekar

Anish Faldessai

HFCL

Tanisha Dessai

Neil Dias

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Tanisha Malik

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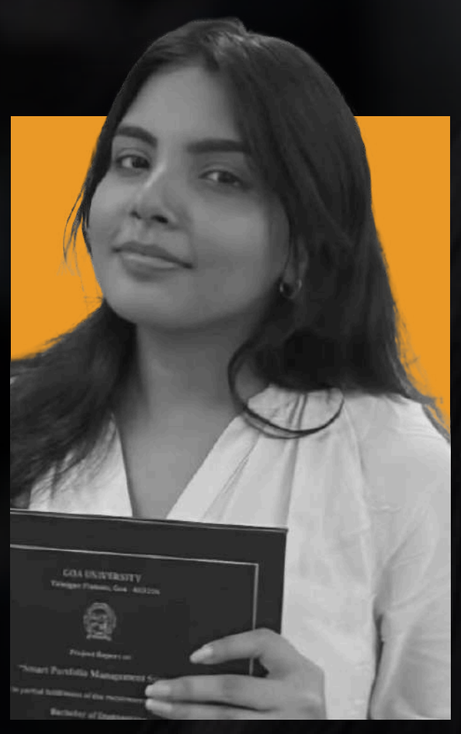

Saishree Talekar

Pratik A. Pal

Mohammad Kaif Sayed

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INFUSE

Smitesh Odkar

FACULTY

2024-25

ECOMP

BATCH 2025

Anecdotes from the class of 2025

"As a proud graduate of the first-ever Electronics and Computer (EComp) batch, it's been an unforgettable journey. Being a part of the Exactas Council right from its very beginning was not just an experience, it was a foundation. The lessons I learned while working with the team - teamwork, leadership, and problem-solving are already proving to be incredibly valuable in real life.

I'm truly grateful to our faculties and our HOD for their constant support, trust, and encouragement. Their guidance shaped not just our academics but also our character.

Sharv Shetye

It fills me with pride to see how far our department has come, and I'm excited to see where the next batch of changemakers will take it. Here's to EComp ,where it all began."

Anish Faldessai

"Being part of the Electronics and Computer Engineering Department was an experience that went far beyond academics. It was a space where ideas were encouraged, mistakes were accepted as part of learning, and creativity found its place alongside technology. The exposure I received from technical workshops to organizing departmental events as the Cultural Secretary helped me discover skills I never knew I had. The guidance from faculty and the collaborative environment made even the most challenging projects feel achievable. It is a place that shaped not just my career path but also my perspective on innovation, leadership and teamwork".

Varad Naik

"I am Varad Naik, a final-year student of the Electronics and Computer Engineering department. Over the past four years, the EComp department has provided me with a strong foundation in both theory and practical skills. The faculty have been incredibly supportive, always encouraging innovation, especially during projects and internships. I truly appreciated the department's efforts in providing real-world exposure through labs, workshops, and technical events. My journey here has been one of growth ,both academically and personally. I gained clarity, confidence, and lifelong friendships along the way. I'm grateful to all the professors who guided me, especially during my final-year project. I leave with valuable experiences and warm memories, and I hope the department continues to inspire future engineers."

"The Electronics and Computer Department is a great space for learning and growth. The faculty were always supportive and the practical approach teaching helped me build a solid foundation in both software and hardware. The events, workshops and projects kept me engaged and encouraged creativity and teamwork. It was a truly enriching experience."

Darlene Figueiredo

HEAD OF DEPARTMENT

DR. JAYALAXMI A. DEVATE

ASSOCIATE PROFESSOR

DR. SHAILESH KHANOLKAR

ASSISTANT PROFESSORS

MRS. AVITA A. LOTLIKAR
MRS. SHARLAINE NICOLE MONTEIRO
MRS. SNEHA MHALSEKAR
MRS. ROHINI H. KORTI
MRS. RAKSHA G. SINGBAL
DR. ANUJA JANA NAIK
MRS. MAHI ITAGI
MR. SANJEET SUMANT SHET KANEKAR
MS. PRIYANKA SARKAR (CONTRACT)
MR. AMAY VIJAY DESAI (CONTRACT)
MS. PRANJAL SANGODKAR (CONTRACT)
MR. ADITYA DAS (CONTRACT)
MS. TINA VAZ (CONTRACT)
MS. MARISSA LOURDES DE ATAIDE (CONTRACT)

NON-TEACHING STAFF

MR. SANTOSH TARI
MRS. LIZZIE FERNANDES
MRS. MERLYN D'SOUZA
MR. RAGHU BILLAVA
MS. SUZETTE FERNANDES