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VISION

To evolve into a Holistic Learning Hub that moulds technologically proficient engineers in the field of Electronics and Computer Science; contributing to the global industry and society with Integrity, Ethics and Professionalism as envisaged by Don Bosco
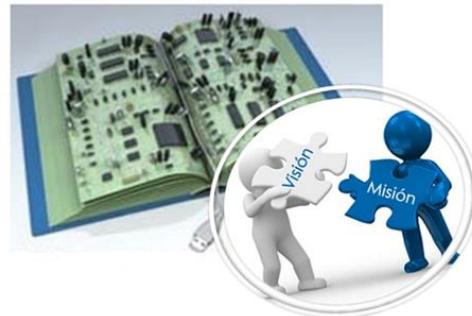
MISSION

- To impart quality education abreast with advances in technology and transform students into competent professionals.
- To promote innovation, research and entrepreneurship through collaboration and networking.
- To encourage various skill enhancing activities and extra-curricular activities to foster high levels of work ethics and responsibility for a better society.

DEPARTMENTAL DETAILS

Electronics and Computer Science is a cross-discipline integrated program that explores the exciting interface between Electronics and Computer Science (ECS). The fields to be explored are Robotics, Augmented and Virtual Reality, Internet of Things, VLSI Technology, Database Management system, Computer Vision, Cyber Security, Artificial Intelligence and Machine Learning.

The department has been organizing various programs to enhance the Industry -Institute interaction through field visit and workshops. The students are also provided an opportunity to choose specialization electives to focus on their identified areas of interest.

Department has 11 fully functional Laboratories as listed below, along with the different Software.

- Data Analytics & Machine Learning Laboratory
- Computing Systems Laboratory

➢ **LABORATORIES**
- Electronics Engineering Laboratory
- Software Systems Laboratory
- Analog Electronics Laboratory
- Digital Electronics and Instrumentation Laboratory
- Network and Security Laboratory
- Embedded systems and Robotics Laboratory
- Project Laboratory
- Control and automation Laboratory

SOFTWARES	KITS
MATLAB	8051 kits
Xilinx 14 Version	ARM kits
OSCAD	PIC kits
MAGIC	PLC kits
LabVIEW	LAN Trainer kits
OCTAVE	OFC Kits
POlSARPro	PSoC ARM Cortex Kits

TEKFEST 2.0 inaugurated at DBCE

Don Bosco College of Engineering hosted **TEKFEST 2.0**, a collaborative initiative jointly organized by the student's associations of the Mechanical Engineering (MESH) and Electronics & Computer Science departments (DBEATS). The two-day event features participation from various colleges across Goa and includes an exciting array of competitions such as Robo Racer, Robo Soccer, Tech Pitch, CAD Clash, Figma Battle, Reel Making, Arm Wrestling, and more.

The inaugural ceremony, held on 24th April 2025, was graced by **Mr. Pawan Vij**, Director of Operations at Putzmeister Concrete Machines Pvt. Ltd., Goa, who was the Chief Guest for the event. Dr. Neena Panandikar, Principal, along with Dr. D.S. Vidhya, Head of the ECS Department, and Dr. Suraj Marathe, Head of the Mechanical Department, were also present on the dais. They were joined by faculty coordinators Mrs. Michelle Araujo, Mrs. Anisha Cotta, and Mr. Sanjeel Naik, as well as student representatives Loxley Dias, Chairman of DBEATS, and Josiah Fernandes, Chairman of MESH.

Mr. Loxley Dias presented a brief overview of the event and Mr. Josiah Fernandes proposed the Vote of Thanks for the inaugural function.

TEKFEST 2.0 unfolded as a vibrant two-day intercollegiate celebration of innovation, creativity, and technical excellence. With a prize pool exceeding ₹2 lakhs, the fest attracted enthusiastic participation from institutions across the region competing in a wide array of technical and non-technical events.

The technical segment featured crowd-pulling contests such as Robo Racer, Robo Sumo, Robo Soccer, Line Follower, Tech Pitch, Fun with Coding, CAD Clash, and a Figma UI/UX Design Challenge. These events challenged participants to apply their technical skills, problem-solving abilities, and creativity in real-time scenarios.

On the non-technical side, students showcased their strength and wit in events like Arm Wrestling, a thrilling Escape Room, and a fast-paced E-Sports Tournament featuring titles such as FIFA and Clash Royale. The Reel Making competition, focused on creativity and digital storytelling, added a modern twist to the lineup.

Held across various venues on campus, TEKFEST 2.0 was a resounding success, fostering innovation, collaboration, and an energetic campus atmosphere. The fest not only highlighted the immense talent of participating students but also reinforced Don Bosco College of Engineering's commitment to hands-on learning and holistic development.

TECHNIX 2025 Showcases Innovation in Engineering Projects

The Final Year Project Quality Assurance Committee of the Department of Electronics and Computer Science, in association with the Don Bosco Electronics and Telecommunication Society (DBEATS), organized Technix2025 from April 16 to May 9, 2025. The event culminated in the final round on May 9, conducted in a hybrid mode.

The inaugural ceremony featured Ms. Oindrilla Chatterjee, Manager – Digitization & AI at Adage Automation, as Chief Guest. Present on the occasion were Rev. Fr. Kinley D'Cruz (Director, DBCE), Dr. Neena Panadikar (Principal), and Dr. D.S. Vidhya (HOD, ECS). The jury included Mr. Shravan Hegde (CTO & Co-founder, Contractzy) and Mr. Maynard Gomes (Assistant Manager, Godrej & Boyce). The event was coordinated by Asst. Prof. Anisha Cotta and Asst. Prof. Melba D'Souza.

The event was compered by the Technix student coordinator, Ms. Rucha Sawant and Ms. Disha Talaulikar. The inaugural function commenced with the introduction of the event given by Asst. Prof. Anisha Cotta. This was followed by an address by Dr. Neena Panadikar where she welcomed all the guests and encouraged the students to work on innovative projects. The Director Rev Fr. Kinley D'Cruz in his address motivated the students and appreciated the work of the coordinators and the team. Further, the Chief Guest Ms. Oindrilla Chatterjee addressed the gathering where she shared her experiences, suggested inputs on projects and gave her valuable feedback.

The competition extended in two phases, beginning with Phase I in April, which focused on abstract shortlisting. Following a meticulous evaluation process, 16 abstracts were selected for the final round, with results announced on April 30th, 2025. The final presentation took place on May 9th, 2025 in a hybrid mode. Technix 2025 witnessed enthusiastic participation from engineering colleges across India, with over 30 project groups presenting their innovative ideas.

The competition was held across two categories: Hardware and Software, highlighting the diverse talents and innovations of the participants.

In the Hardware category, the first place was secured by Sailesh Prabhu, Pranjal Kalgutkar, Arushi Bhatnagar, and Devika Nair from the Department of Electronics and Telecommunication, Padre Conceição College of Engineering, for their innovative project "Sweep Deck", under the guidance of Prof. Sanjeet Kanekar. The second place was awarded to Shreya Hosmane, Tejas Pillai, Omkar Killedar, and Pranav Raikar from the Electrical Department of Goa College of Engineering, for their project "EEG Motion Mapping using DNN", guided by Dr. Sangeeta Mahaddalkar.

In the Software category, the first prize went to Fayaz Khan, Sahil Shinde, and Melanie D'Melo from the Department of Electronics and Telecommunication, Padre Conceição College of Engineering, for their project "EDU-AI", also mentored by Prof. Sanjeet Kanekar. The second prize was won by Adi Naik, Sai Saleikar, and Vauldan D'Souza from the Computer Science Department, Goa College of Engineering, for their project "Webpage Buildr", under the guidance of Dr. Nitesh Naik.

The event concluded with the vote of thanks by the Asst. Prof. Melba D' Souza. The student coordinators were Mr. Loxley Dias and Mr. Sherwin Dias.

FAREWELL 2025

The Farewell Ceremony for the BE ETC Class of 2025 was held with great reverence and enthusiasm. The event commenced with a warm welcome extended to all dignitaries, faculty members, and students. The ceremony began with a prayer, seeking blessings for the journey ahead. Dignitaries were then greeted with flowers as a gesture of respect. The esteemed guests included our Principal, Dr. Neena Panandikar; Head of the ETC Department, Dr. D.S. Vidhya; Class Teacher of BE ETC, Prof. Kimberly Morais; Class Teacher of TE ECS, Dr. Mohini Naik; along with other respected faculty members of the ETC/ECS department.

The Principal, Dr. Neena Panandikar, addressed the gathering with a speech emphasizing the significant role faculty members play in the holistic growth of students. This was followed by a thoughtful address by the Head of Department, Dr. D.S. Vidhya. Subsequently, Prof. Kimberly Morais, Class Teacher of BE ETC, delivered a heartfelt speech highlighting the importance of making wise choices in life.

Representing the student body, Class Representative Ms. Ackyshma Fernandes shared an emotional and nostalgic reflection on the past four years. The speeches served as a source of motivation, gratitude, and inspiration for everyone present.

Following the formal addresses, a cake-cutting ceremony was held with the participation of the Class of 2025 and faculty members, marking a celebratory moment for all. The highlight of the ceremony was the announcement of the Best Outgoing Student Award, which was conferred upon Ms. Sachi Bokade.

With this, the formal proceedings concluded, and the students moved to partake in refreshments as they transitioned into the informal segment of the event.

STUDENT'S CORNER

Workshops/Seminars/In-house Trainings/ Competitions

Workshop on Robot Building

The Robotics Club "Robocom" at Don Bosco College of Engineering, Fatorda, under the guidance of Prof. Flavia Leitao, successfully organized a hands-on workshop, which focused on building robotic bots, like the Line Following Robot (LFR), Robo Racer, and Robo Soccer, on 25th January 2025. The workshop aimed to provide students with practical insights into designing, building, and programming different robotic bots, while also offering valuable information on competitive robotics events.

The workshop commenced with an introductory session by **Mr. Preston Dsilva,** who provided a comprehensive overview of various types of robots, their real-world applications, and the numerous competitions associated with them. He explained the tracks commonly used in events, including the layout for Robo Soccer, and delved into the intricacies of Line Following Robots (LFR). Additionally, Preston introduced the participants to the variety of robots available within the Robocom club, highlighting their functionalities and the potential for innovation in the field of robotics.

This is followed by a session led by **Mr. Vallan Mascarenhas**, which focused on the hardware components of the LFR. Vallan explained the key PCB connections and the role of each component in the functioning of the robot. **Mr. Yash Kochrekar** then took over the coding segment, guiding participants through the programming of the LFR using various functions in C++. Once the coding was complete, the assembled LFR bots were tested on a designated track to ensure they functioned as expected, providing the students with an immediate, hands-on

experience. The workshop continued with **Mr. Preston Dsilva** taking the stage again to present an in-depth session on Robo Soccer. He walked the participants through the critical components involved in building a soccer-playing robot, including motors, chassis design, and soccer clamps. He also explained the essential motor driver connections and the setup for the receiver and RC controller. The session concluded with a practical assembly of the soccer bots, allowing participants to test their creations and understand the mechanics of the bot's performance on the soccer field.

Ms. Danely Gomes and **Mr. Sandeep Sawant** led the next session on Robo Racer. They guided the students through the building and controlling process, emphasizing the importance of modifications to suit various track conditions. Topics such as track variations and how to optimize the bot for better performance were thoroughly discussed. The session also covered the LiPo battery's role in powering the bots, with a focus on proper storage and charging practices to ensure safety. Students were then given the opportunity to test their Robo Racers on the track, enjoying the thrill of seeing their creations come to life.

The workshop concluded with a session led by **Danely Gomes,** who provided a detailed overview of the rules and regulations governing robotics competitions.

The Robocom workshop was a resounding success, offering participants a unique opportunity to gain practical, hands-on experience in the field of robotics. The interactive sessions, combined with expert guidance from the mentors, made the learning process both engaging and informative. To conclude the event, senior students shared their personal experiences from previous competitions, further motivating the participants to explore and innovate in the exciting world of robotics.

"Session on "Campus to Career"

An engaging and thought-provoking session on "Campus to Career" was organized by CII-IWN DBCE Chapter on 25th February 2025, bringing together distinguished speakers and attendees. The event aimed to foster learning and inspiration through the exchange of valuable insights. The Resource speakers were Dr. Nimisha Saraswat, Chairperson CII IWN-Goa. and Ms. Sonia Kuncalienker, Business Development Leader and Sales Consultant, Goa. The event was also graced by the presence of Principal Dr. Neena Panandikar, CII IWN Co-Chair Ms. Smita Patil, CII Executive Officer Ms. Sharada Divkar, CII- IWN DBCE Chapter Faculty Coordinator Ms. Melba D'Souza and CII IWN members. The Compere for the day was Ms. Disha Talaulikar.

The session began with a floral welcome given to all the dignitaries. This warm introduction set the stage for an enlightening gathering. The first talk was delivered by Dr. Nimisha Saraswat on Career planning. She provided valuable guidance and insights on Self-assessment, Career research, Interview preparation, Networking opportunities and Skill development. The second talk was given by Ms. Sonia Kuncalienker, titled 'Hiring Quest,' which delved into the intricacies of the hiring process and career opportunities. The speakers provided students with valuable insights into the corporate world, helping them understand industry expectations and career growth strategies. The event concluded with a heartfelt vote of thanks and a token of appreciation presented to our guests. The session was a resounding success, leaving a lasting impact on all present.

"Digital Poster Design Competition"

To promote awareness about the Bureau of Indian Standards (BIS) and engage students in creative thinking, a Digital Poster Design Competition was conducted on 6th May 2025.

The objective of this competition was to encourage students to understand and depict the importance of standardization in daily life through artistic expression.

A total of 15 entries were received, judged by a panel of experts. The competition saw enthusiastic participation and served as a successful platform to blend creativity with knowledge of national standards.

It fostered a spirit of design thinking and reinforced the relevance of BIS in maintaining quality and safety in products and services.

EDUCATIONAL TOUR

IEEE DBCE SB Organizes an Educational Tour to Kochuveli & Kanyakumari

The **IEEE Student Branch of Don Bosco of Engineering, Goa,** organized its **second Educational Tour to Kochuveli and Kanyakumari** exclusively for the IEEE Student members from February 26 to March 2, 2025 under the guidance of the **IEEE Branch Counselor, Prof. Yeshudas Muttu**. 79 IEEE student members along with 4 Faculty members, Prof. Yeshudas Muttu, Prof. Deron Rodrigues, Prof. Trima Fernandes & Prof. Carol Cardozo visited **ISRO VSSC, Toonz Animations and Windkraft Energy Services.**
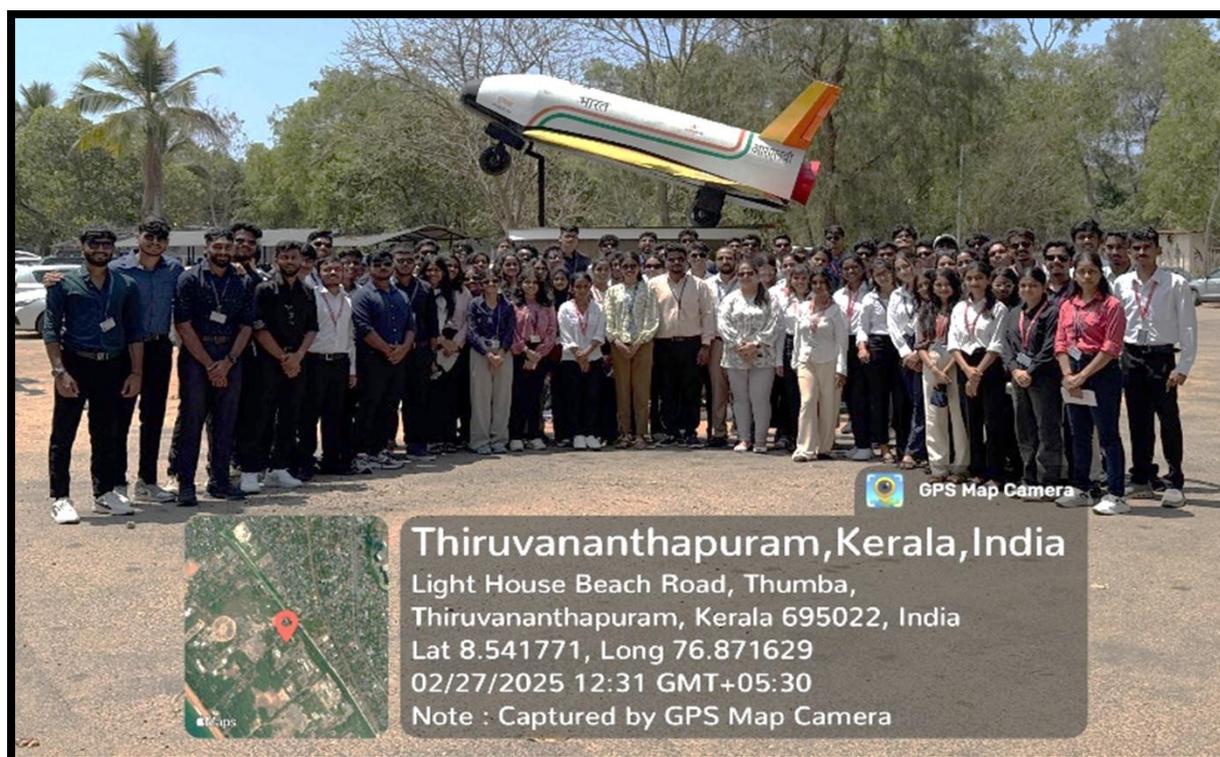
On 27th February, we visited ISRO's Vikram Sarabhai Space Centre (VSSC), which provided an in-depth look at India's space missions, satellite technologies, and launch vehicle advancements. The visit commenced with an introduction to the Technology Transfer & Documentation Group, which plays a crucial role in transferring ISRO's technological innovations to industries.

Followed by, the group visited Toonz Animation India Pvt. Ltd. Studio, a leading animation company. The session was led by Mr. Vinod A.S. – VP Academics & Training , who provided valuable insights into animation production, covering both 2D and 3D animation processes. The concept development, character design, storyboarding, and animation techniques was well explained.

On 28th February, the IEEE team travelled to Windcraft IDC in Kanyakumari, a leading wind turbine manufacturing facility specializing in renewable energy. An in-depth understanding of

wind turbine technology, including turbine design, power generation, and control systems was provided by Mr. Bilton and Mr. Ravi.

The IEEE Educational Tour was a remarkable experience, offering exposure to cutting-edge technology across multiple industries while also allowing us to experience some of Kerala's scenic attractions. The visit to ISRO enhanced our understanding of space exploration, the session at Toonz Animation Studio provided insights into the world of digital animation, and the tour of Windcraft IDC deepened our knowledge of renewable energy and wind turbine technology. We extend our sincere gratitude to IEEE Student Branch Counsellor, Prof. Yeshudas Muttu, and the entire IEEE tour committee of Don Bosco College of Engineering for organizing this enriching tour.
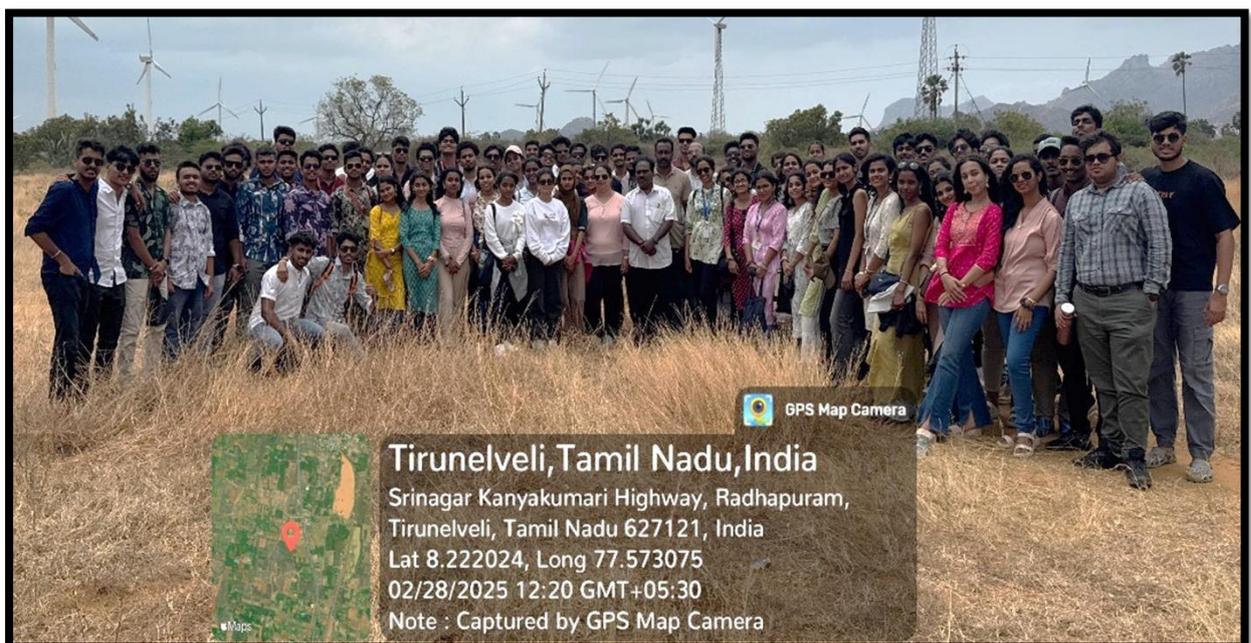
FIELD VISITS

Field visit at "Cipla-Verna"

➢ CII-IWN DBCE Student Chapter of Don Bosco College of Engineering, Fatorda organized a fieldtrip to Cipla, Verna on 1st April 2025. The fieldtrip was attended by CII IWN student members they were also accompanied by the faculty coordinator Ms. Melba D'Souza.

During the site visit the students got a chance to visit Anti-cancer drug manufacturing facility at Cipla where Mr. Anurag from Cipla-Verna provided the students with detailed information on the drug-making process. The students got an opportunity to see various equipment's involved in the process of roll compacting, mixing of powders, Blending, compression, coating, Isolation, capsule filling and dispensing, which helped the students to understand the different steps involved in making this important medicine.

Overall, the field trip was a great learning experience, giving the students useful knowledge and ideas for future careers in the pharmaceutical industry.

The field visit was organized by CII IWN DBCE CHAPTER Faculty Coordinator Ms. Melba D'Souza.

EXPERT TALKS

Expert Talk on "Spatial AI- Past, Present and Future"

On January 29th, 2025, Don Bosco College of Engineering hosted an enlightening expert talk on 'Spatial AI', delivered by **Dr. Rajat Talak**, a distinguished Research Scientist in the Department of Aeronautics and Astronautics at the **Massachusetts Institute of Technology (MIT), United States,** offering an insightful exploration of its past, present, and future.

The talk provided a comprehensive overview of the development of Spatial AI, tracing its origins and the challenges faced in its early stages. Dr. Talak discussed how these challenges were addressed and optimized in the present and highlighted the future opportunities and advancements in the field. He provided valuable insights into the integration of computer vision, robotics, and artificial intelligence to enable seamless interaction between machines and the physical world.

During the session, sir highlighted several applications of Spatial AI, such as augmented and virtual reality (AR/VR), autonomous vehicles, smart cities, and industrial automation. The talk delved into technical aspects, including the autonomy stack, which refers to the software strategies used to interpret sensor inputs and make automated decisions. A significant focus was on SLAM (Simultaneous Localization and Mapping), a technique that enables machines to map their surroundings while navigating in real time.

The creation of 3D maps using drone imagery and multimodal data was also discussed, challenges such as scalability and abstraction in large environments, were addressed alongside advancements like hierarchical 3D scene graphs and memory-efficient solutions using NVIDIA processors.

These innovations allow systems to efficiently store and process spatial data, enabling the scaling of AI solutions to more extensive and complex environments.

He further illustrated that future advancements aim to improve abstraction, language, motion, and touch perception to tackle challenges in dynamic and large-scale space. He also discussed RGBD cameras, LiDAR sensors, and IMU sensors, which provide depth, motion, and color data for enhanced spatial perception. The talk emphasized the transformative potential of Spatial AI in revolutionizing industries and societal automation, paving the way for smarter and more interactive systems.

We extend our heartfelt gratitude to the Director, Rev. Father Kinley D'Cruz and the Principal, Dr. Neena Panandikar for organizing this insightful session. The faculty coordinators for this event were Prof. Flavia Leitao and Prof. Ajit Salunke. Their efforts in arranging such an engaging and educational event provided an excellent platform for learning about advancements in Spatial AI and its applications.

STUDENT'S ACHIEVEMENTS & FELICITATION

➢ Mr. Tabrej Agasnali and Mr. Raoul Vas won the Goa University Tennis Tournament, held on 8th and 9th January 2025.

➢ Mr. Vanosh Fernandes, Mr. Gabinaz Borges, Mr. Hrishikesh Bhave and Mr. Tanish Lotlicar from TE ECS won the intercollegiate basketball tournament, held on 5th to 7th February 2025.

➢ The TE ECS CLASS were the overall champions in the interclass tournament held at DBCE on 7th March 2025

➢ Ms. Sachi Bokade, Ms. Ackyshma Fernandes, Mr. Soham Tulaskar and Ms. Lakshmi Mopidevi won the 3rd place for the Paper Presentation at IEEE Lumini 2025, Bits Goa, held on 15th - 16th March 2025, for the Project "AI armed Robot", guided by Prof. Yeshudas Muttu and Prof. Flavia Leitao.

➢ Mr. Tanish Lotlikar from TE ECS participated for the first U23 Basketball National championship held in Guwahati Assam from 18th to 24th March 2025

➢ The Robotics Club Robocom of Don Bosco College of Engineering, Fatorda, under the mentorship of Prof. Flavia Leitao, proudly took part in Resonance — a technical extravaganza organized by the IT Department of Goa College of Engineering, on 27th March 2025, where hey participated for the RoboRace, RoboSoccer, RoboSumo, and the Line Follower Robot. Mr. Vallan Mascarenhas and Ms. Merrill Dias won the 1st place for the LFR, with an outstanding time of just 14 seconds.

- The Robotics Club Robocom of Don Bosco College of Engineering, Fatorda, under the mentorship of Prof. Flavia Leitao, proudly participated in Aispire, a technical event organized by the IEEE Student Branch of Goa College of Engineering, on 5th April 2025, and won the 2nd place for LFR, 3rd place for Rober Racer and RoboSoccer qualified for the semi Finals.
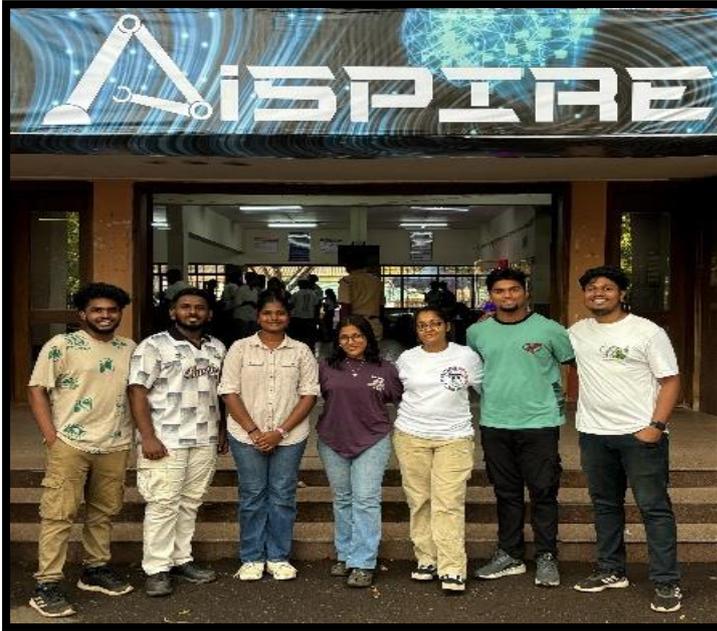
- The Robotics Club Robocom of Don Bosco College of Engineering, Fatorda, under the mentorship of Prof. Flavia Leitao, proudly participated in TechUrja, a technical event organized by the AITD, on 10th and 11th April 2025, and Mr. Vallan Mascarenhas and Mr. Preston Dsilva won the 2nd place for the LFR.

- Mr. Harsh Basarikatti from SE ECS participated for the 36th senior state aquatic championship held on 5th n 6th June at Ponda. He has received
  - ✓ 1 gold in 50 meter backstroke
  - ✓ 1 gold in 100 meter breaststroke
  - ✓ 1 silver in 50 meter breaststroke
  - ✓ 1 bronze in 4×100 freestyle relay
  - ✓ 1 bronze in 4 ×100 IM relay
- He has also been selected for the Nationals swimming meet which will be held in the month of July 2025

- A number of students certified for NPTEL courses like AI in Human Resource Management, Business Development: From Start to Scale, Business Ethics, Cloud Computing, Cryptography and Network Security, Data Science for Engineers, E-Business, Enhancing Soft Skills and Personality, Innovation in Marketing and Marketing of Innovation, Introduction To Industry 4.0 And Industrial Internet Of Things, Introduction To Internet Of Things, Leadership and Team Effectiveness, Principles of Management, Privacy and Security in Online Social Media, , etc, and passed with Elite and Elite+Silver.
- Mr. Varun Castello was the STAR performers who was awarded the NPTEL_MOTIVATED_LEARNERS Title.
- Mr. Ketan Gaonkar and Ms. Shravni Ubale were the STAR performers who were awarded NPTEL_ENTHUSIASTS Title.

STUDENT'S PARTICIPATION in EXTENAL EVENTS

➢ The robotics club "Robocom" of Don Bosco College of Engineering, Fatorda, under the guidance of Prof. Flavia Leitao, participated in the technical event Techyon, held on 17th and 18th of October 2024, at PCCE. The club participated for three exciting events the Line Follower, Robo Racer, and Robo Soccer.

➢ The Robocom Robotics Club of Don Bosco College of Engineering, Fatorda, under the guidance of Prof. Flavia Leitao, participated in Quark 2025, a prestigious event held at BITS Pilani Goa, from February 7th to 9th, 2025, where they took part in events like Time Challenge (LFR), Roborace, Robosoccer, and Robosumo.

- The robotics club "Robocom" of Don Bosco College of Engineering, Fatorda, under the guidance of Prof. Flavia Leitao, proudly participated in Tech Coronation 2025, a two-day technical fest held on 25th and 26th February 2025 at the Taleigao Community Centre Hall, Panaji, Goa. Organized by the Government College of Arts, Science and Commerce, Khandola - Marcel, where students took part in three exciting events — Robo-Sumo, Robo Racer, and Robo Soccer.

- The IEEE DBCE Student Branch, under the guidance of Prof. Yeshudas Muttu, IEEE DBCE Branch Counselor, attended LUMINI 2025, hosted at BITS Pilani, Goa, from 15th-16th March 2025.

TRAINING AND PLACEMENTS

Placements

- Mr. Sushant Shetti and Ms. Shravani Ubale have been placed in Claysys.
- Ms. Saachi Bokade and Ms. Ackyshma Fernandes have been placed in Tangentia.
- Mr. Chirag Shinde has been placed in Infiniti Agrotech.

FACULTY INITIATIVES

CERTIFICATIONS/ AWARDS/ ACHIEVEMENTS

- Prof. Yeshudas Muttu has been elevated to the prestigious grade of IEEE Senior Member — a recognition held by only 10% of IEEE's global membership, marking a significant milestone in his professional journey, characterized by demonstrated excellence, impactful contributions, and distinguished experience in the field of engineering.

- Dr. Vidhya D. S. was awarded the Aspirant NPTEL Appreciation Certificate by IIT Madras and SWAYAM for the period January to October 2025.

- Dr. Mohini Naik was appointed as Reviewer for *IEEE Sensors Letters* (since 2024), contributing to the peer-review process of high-impact research in sensor technology.
- Dr. Mohini Naik was appointed as the member of resource support team under Bureau of Indian standards.

WORKSHOPS/SEMINARS/EXPERT TALKS ATTENDED

- Dr.Vidhya D S attended a one-week FDP on "Data Analytics using AI", organized by the IIT Kanpur, from 02-12-2024 to 06-12-2024
- Dr.Vidhya D S attended a one-week FDP on "Advance Excel with Data Visualization", organized by the IIT Kanpur, from 03-02-2025 to 08-02-2025
- Dr.Vidhya D S attended a one-week FDP on "Internet Of Things (IOT)", organized by the IIT Kanpur from 22-11-2024 to 28-11-2024
- Dr.Vidhya D S attended a one-week FDP on "Advance Excel with Power Bi", organized by the IIT Kanpur from 14-11-2024 to 19-11-2024
- Dr.Vidhya D S attended a one-week FDP on "Advance Excel with Tableau", organized by the IIT Kanpur from 17th February 2025 to 22 Feb 2025
- Prof. Flavia Leitao attended a one-week FDP on "Generative AI and Future of Network security Emerging Trends", organized by ECE dept., Guru Nanak Institutions, New Delhi, from 24-03-25 to 28-03-25.
- Dr.Vidhya D S attended a one-week FDP on "Next Generation Artificial Intelligence: Applications of ML, DL & RL in Robotics and Automation (NGAI-2025)", organized by the Annant Gyan Knowledge and Skills Private Limited from 26th May – 31st May 2025.
- Dr. Mohini Naik and Prof Flavia Leitao attended a 2-weeks Skill Development Training Program on Cloud Computing", organized by ISTE in collaboration with BNY, from 29-05-2025 to 13-06-2025

UPCOMING EVENTS

- Hands-on workshop on Cubesat by Parikrama in August 2025
- IEEE STEM Event in September 2025
- IEEE Day Celebration in October 2025
- National Standards Day Event by BIS in October 2025
- Robocom Workshop in October 2025
- IEEE PaperQuest 2.0, in October 2025

COMMUNITY OUTREACH

Robotics Workshop at Mahatma Gandhi Centenary High School

The Robotics club "Robocom" of Don Bosco College of Engineering, Fatorda, under the guidance of Prof. Flavia Leitao, successfully conducted a one-day Robotics Workshop for the students of Mahatma Gandhi Centenary High School, Gaunem, Bandoda, Bandiwada, Goa, in collaboration with JCI Ponda, on 16th April 2025.

Ms. Gretchen Pereira introducing the students to the basic concepts of robotics, followed by Mr. Vallan Mascarenhas who explained the critical role of sensors in robotics. Mr. Sherwin Dias introduced the concept of coding, explaining its significance in the automation process. Mr. Preston and Mr. Mazen guided students in building and operating their own RoboRacers.

Talks delivered under Vidnyan Dhara 2025

Dr. Mohini Naik, Assistant Professor, Electronics and computer science, Don Bosco college of Engineering, was invited as a resource person under *Vidnyan Dhara 2025*.

On 13th January 2025, a session was conducted at Government High School, Balli Cuncolim. The topics covered included an introduction to satellite communications, the evolution of space technology, basics of ham radio and its applications.

On 14th January 2025, a lecture was delivered at Holy Cross High School, Quepem- Goa. The discussion focused on understanding space and satellite systems, the role of satellites in communication and navigation, basics of ham radio, and emergency communication.

On 3rd February 2025, two sessions were conducted. The first session took place at Government High School, Vadem Sanguem, where an overview of satellite communication systems and space missions was provided.

Later that day, at Pope John XXIII High School, Quepem- Goa another session was held, introducing students to space science and satellite technology.

"Gram Chaupal": Your Rights, Your Power

On 23rd May 2025, the Bureau of Indian Standards (BIS), Hubli Branch, in collaboration with the Unnat Bharat Abhiyan cell of Don Bosco College of Engineering (DBCE), organized an awareness program titled "Gram Chaupal: Your Rights, Your Power" at Sacorda Village Panchayat. The program aimed to educate the local community about their consumer rights and the significance of adhering to BIS standards in daily life.

The session was conducted by Dr. Mohini Naik, Assistant Professor at DBCE, who provided valuable insights into various aspects of product quality and consumer protection. She explained how to identify ISI marks on products, the importance of hallmarking gold jewellery, and introduced the BIS Care mobile application, which allows consumers to verify the authenticity of products and lodge complaints effectively.

The initiative was successful in creating awareness among the rural community about standardization, quality assurance, and the mechanisms available for grievance redressal. It also highlighted the ongoing efforts of institutions like BIS and DBCE to empower rural populations through knowledge and engagement.