

FLASH

Electronics & Computer Science
(formerly known as Electronics and Telecommunication Engineering)
Departmental Newsletter

Volume 10, Issue 01, July 2025 - Dec 2025

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Inside this issue

➤ Departmental Details

- Finishing School
- ESCinC Council Inauguration
- Tech Talks 2025
- Robocom Club Inauguration

➤ Student's Corner

- Workshops/Seminars/In-house Trainings/ Competitions
- Participation in external events
- Field Visits
- Expert talks
- Achievements and Felicitation

➤ Training & Placement

➤ Faculty Initiatives

- Certifications/ Awards
- Workshops/Seminars/Expert Talks Attended
- Conference/ Journal Publications

➤ Upcoming Events

➤ Community Outreach

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

MATLAB
Xilinx 14 Version
OSCAD
MAGIC
LabVIEW
OCTAVE
POISARPro

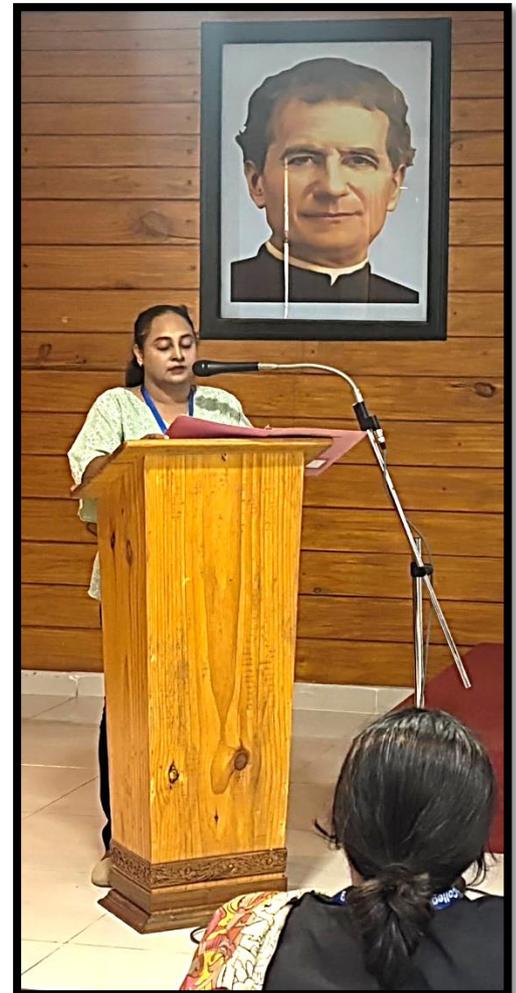
KITS

8051 kits
ARM kits
PIC kits
PLC kits
LAN Trainer kits
OFC Kits
PSoC ARM Cortex Kits

Finishing School on PLC, VFD and HMI

The Electronics and Computer Science Department (formerly known as Electronics and Telecommunication Department), of Don Bosco College of Engineering (DBCE), Fatorda, conducted a Finishing School, in association with Autotech Technologies on Industrial Automation Training. It was a 20 day course, which went on from 14th July to 7th August 2025, and was based on Programmable logic controller (PLC), Variable-frequency drive (VFD) and the Human-Machine Interface (HMI) module of Industrial Automation.

The resource persons for this finishing school were Mr. Sandip Mone, Proprietor and Trainer of Autotech Technologies, and Ms. Sanjita Nadkarni, Project in-charge and Trainer of Autotech Technologies. The Finishing School this year was organized for the Electronics and Telecommunication and Mechanical students of DBCE. The different brands that were covered under this course were DELTA VFD, ALLEN BRADLEY PLC, DELTA HMI.

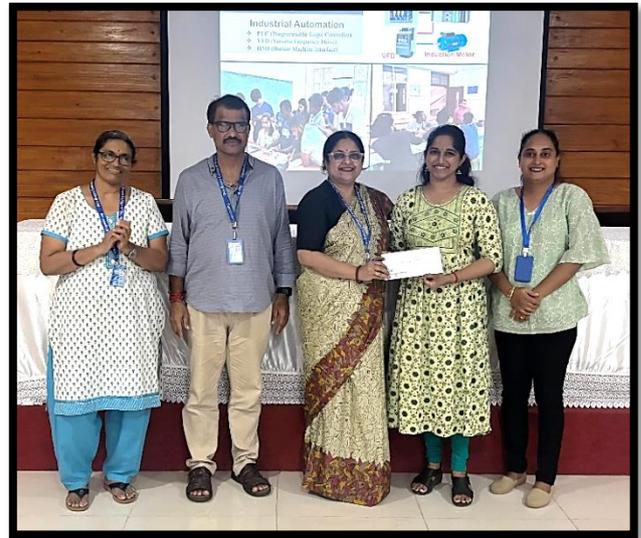


The course started with a brief introduction on DELTA VFD which included introduction to motor and explanation on motor name plate and some basic information on VFD, its advantages, and uses.

The second topic was on Programmable Logic Controller. The PLC that was covered for the students was Allen Bradley Micrologix 1000. Initially students were introduced to Allen Bradley PLC, its softwares and basics of Ladder Diagram Programming. This was followed by

wiring of the PLC. Students were taught to wire inputs as well as output such as Indicators and Relays.

The final topic that was covered was Delta HMI. In the initial introduction to HMI, the students were taught to handle a touch screen HMI and different communication ports of HMI to communicate with PLC. The concepts covered here were Page generation, Tag generation and Downloading pages to PC, including communication between the PLC and HMI. Variable Numeric input values were given to PLC's timer and counter using HMI. Value Display Concept was also shown wherein they could display Timer and Counter values.



On the 7th August 2025, the Valedictory function was held of the Finishing course, which was graced by the Principal Dr. Neena Panandikar, HOD of ECE/ETC Dr. D. S. Vidhya, HOD of Mechanical Department Dr. Suraj Marathe and the Resource person Ms. Sanjita Nadkarni, Project in-charge and Trainer of Autotech Technologies.

The students were awarded certificates for the course, after which the students shared valuable feedback, emphasizing how enriching and fruitful the course was in preparing them for the industry. The faculty coordinator for the Finishing School was Prof. Flavia Leitao.



Inauguration of the MESH / ESCinC Council

The Electronics and Computer Science Engineering Students' Council (ECSInC) along with the Mechanical Engineering Students' Council (MESH) of Don Bosco College of Engineering jointly held their installation ceremony for their respected committees for the academic year 2025-26 on August 23, 2025 at 10:00 am in the Seminar Hall 1.

The Chief Guest was Ms. Raileen Rego, HR and Admin, NETZSCH Technologies India Pvt. Ltd. The ceremony was also graced by Fr. Wilfred Fernandes (Director), Dr. Neena Panandikar (Principal), Dr. Suraj Marathe (Head of the Mechanical Department) and Dr. D.S. Vidhya (Head of the Electronics and Computer Science Department).



The ceremony commenced with the lighting of the lamp by the Chief Guest and the other dignitaries. The newly elected ECSInC Chairman, Mr. Preston D'Silva welcomed the gathering. The occasion was followed by the unveiling of the newly designed logo of ECSInC, formerly known as DBEATS.

This significant event also commemorated the official rebranding of our council, formerly DBEATS, to its new identity as ECSInC. During the event Mr. Josiah Fernandes and Mr. Lenoy Menezes highlighted the MESH and DBEATS activities respectively from the previous year.

The Principal discussed the newly introduced multidisciplinary postgraduate course, urging students to take full advantage of this opportunity. She also encouraged the newly appointed committee members to draft a strategic plan for the upcoming events. Fr. Wilfred congratulated the outgoing committee for their excellent work and challenged students to push their boundaries and broaden their horizons and wished the newly elected council the very best for the upcoming year.

This was followed by the Oath taking ceremony of the newly elected council members of the MESH and ECSInC councils.



Mr. Mack Furtado introduced the Chief Guest and welcomed her to address the gathering. Ms. Rego encouraged students to always be curious to continue learning, and to be courageous and compassionate to take risks and challenges in life. She was pleased seeing many women engineers and also encouraged them to pursue their engineering careers and enter the workforce with leading innovations and to transform and bring a change to industries across.

The newly elected MESH chairman, Mr. Mazen Leitao offered the vote of thanks.

The event was expertly compered by Mr. Britt Vales and Mrs. Esther Mascarenhas. The memorable moments were captured by our official photographers, Mr. Allanry Rodrigues and Mr. Dayne Fernandes. The venue was elegantly decorated by CJP Decorators, setting the perfect ambiance for the occasion.

Tech Talks 2025: Edging towards a connected future

In honour of Engineer's Day on September 15, 2025, Institution Industry Cell (IIC) of Don Bosco college of Engineering, Fatorda organized Tech Talks - Edging Towards a Connected Future", an initiative that was started in 2022, designed to expose students to emerging technologies and empowers learners to stay informed, future-ready, and competitive in the field of Engineering.

The establishment of the Institution–Industry Cell in 2017 marked a significant step toward cultivating a symbiotic partnership between academia and the corporate world. Its core objectives centered on bridging the divide between classroom learning and real-world application and ensuring that academic programs remain in tune with the ever-changing demands of industry.



The first talk was delivered by Mr. Abhinav Sawant, Senior Software Engineer at Visteon, on “Bootloaders in Embedded Systems – The Silent Gatekeepers”. He explained how bootloaders play a critical role in system startup, recovery during failures, and enabling software updates. Using the STM32 microcontroller as an example, Mr. Sawant outlined the boot process and discussed secure bootloaders, including RSA signatures and JTAG debugging. He also shared practical experiences from working on custom bootloaders helping students understand their real-world significance.

The second session was conducted by Mr. Anish Nagarsenker, Firmware Developer in R&D at Siemens, Goa, who spoke on “STM32 Microcontrollers in Industry its applications”. He introduced the STM32 family, explaining how ARM Cortex cores offer performance and power efficiency. The talk covered key features like DSP, FPU, instruction and data caches, and power management, along with peripherals such as GPIO, ADC, DAC, and interfaces like UART, SPI, USB, Ethernet MAC, and CAN FD. He also briefly discussed challenges like debugging and integrating Real-Time Operating Systems (RTOS).

Both sessions concluded with interactive Q&A sessions, where students clarified doubts and received interview tips from the speakers. The combination of theory and practical insights made the Tech Talks engaging and valuable for students, enriching the Engineers' Day celebrations and better preparing them for careers in technology-driven industries.



The Event coordinators were Prof. Samantha Cardoso and Prof. Flavia Leitao.



Inaugural of Robotics Club of DBCE- ROBOCOM

The Installation Ceremony of the Robotics Club of Don Bosco College of Engineering (DBCE), ROBOCOM was held on 17th October 2025 at 9:30 a.m. in Seminar Hall 2 of DBCE. The Chief Guest for the event was Mr. Myron Rodrigues, Robotics Engineer. The event was also graced by Rev. Fr. Wilfred Fernandes, Director-DBCE and Dr. Neena Panandikar, Principal-DBCE, along with Robotics Faculty coordinator, Prof. Flavia Leitao.



The ceremony commenced with the digital lighting of the lamp, symbolizing the illumination of knowledge and innovation. This was followed by a video presentation by Mr. Reeve Fernandes, which beautifully showcased the activities and milestones of Robocom over the past year. Subsequently, the badging ceremony was conducted, wherein the newly elected council members were formally invested with their badges of responsibility.



To recognize excellence and dedication, the winners of the Technical Events were felicitated for their skills and commitment. The Felicitation of Outstanding Team Members also honored those who made exceptional contributions to the club's growth and success. **Prof. Flavia Leitao** added a personal touch by warmly speaking about each member's unique efforts and the profound impact they've had on the club. Mr. Maynard Rodrigues was fondly remembered and appreciated in a very special way for his exceptional contribution to the club.



The Principal, Dr. Neena Panandikar, in her address emphasized the importance of continuous learning and creativity in engineering education. She also congratulated the newly appointed council for taking on their responsibilities with enthusiasm and dedication. She also made a special mention of Prof. Flavia, congratulating her for her constant guidance and motivation that inspired students to reach this far. The Director, Fr. Wilfred Fernandes, in his address, highlighted the significance of discipline, collaboration, and perseverance in achieving success in the field of robotics.



Following this, Mr. Sherwin Dias introduced the Chief Guest, **Mr. Myron Rodrigues**, a founding member of the club. It was a proud and special moment for everyone to have him back. Mr. Rodrigues delivered an inspiring and thought-provoking address, drawing from his experiences as a Robotics Engineer, and encouraged students to pursue innovation with passion, curiosity, and a strong problem-solving mindset. The ceremony marked a new beginning for the Robocom Council, reaffirming its vision to nurture innovation, promote technical excellence, and inspire students to lead the future of robotics and automation.

STUDENT'S CORNER

Workshops/Seminars/In-house Trainings/ Competitions

Workshop on “Cube Satellite – Mission Design and Challenges

A two-day workshop on Cube Satellite – Mission Design and Challenges was successfully organized on 8th and 9th August 2025 at Don Bosco College of Engineering (DBCE), Goa. The event was conducted by the Goa State Higher Education Council, in collaboration with the Government College of Arts, Science and Commerce, Quepem, the Parikrama Student Satellite Club, and the Electronics and Computer Science Department, DBCE.

A total of 70 applications were received, of which 45 participants were selected as there were limited seats. The day began with a formal function attended by dignitaries on and off the dais. Present on the dais were: Dr. Neena S. P. Panandikar, Principal, DBCE, Fr. Ralin De Souza, Rector, DBCE. Fr. Leo Pereira, Administrator, DBCE. Dr. Pravina Kerkar, Principal, Government College of Arts, Science and Commerce, Quepem, Shri Bhushan K. Savaikar, Director, Directorate of Higher Education (DHE), Dr. Vithal Tilvi, Professor, Directorate of Higher Education (DHE), Dr. Niyam Marchon, Professor, Directorate of Higher Education (DHE), Dr. Mohini Naik Gadekar, Workshop Co-ordinator, DBCE and Ms. Liana da Costa, Workshop Co-ordinator, GCQ.



The first technical session was delivered by Dr. Umesh Shinde (Dean R&D, K J Somaiya Inst of technology), who introduced participants to Cube Satellites – Concepts, Configurations & Applications. This was followed by Prof. C. S. Kulkarni (General Secretary & Custodian, Club for Radio Operation & Wireless Network, Mumbai), who presented on HAM Radio Communication for Small Satellites. In the afternoon, Dr. Niraj Patil (Avionics Engineer, New Leap Lab, Mumbai) conducted a Hands-On Training: RF Routing and PCB Design for Small Satellites.

The second day began with Prof. C. S. Kulkarni, he conducted a Ground Station Hands-on session. He explained the basics of antenna theory and design, including types of antennas used for small satellites, gain considerations, polarization, and tracking requirements. In the next session, Er. Chaitanya Kasambe (Avionics System Engineer, ReOrbit Space, Helsinki, Finland) presenting on Indigenous Development in Small Satellites. In the afternoon, Er. Rohit Bokade (Technical Solution Engineer, Google; Founder, New Leap Lab) delivered an in-depth session on Satellite Ground Station & Satellite Engineering: Designing Products and Beyond.



The day ended with concluding remarks by Dr. Mohini Naik Gadekar, who summarized the key takeaways from all sessions, appreciated the active involvement of participants, and encouraged them to take forward the knowledge gained into academic projects and research initiatives.

The workshop successfully combined theoretical learning with practical exposure, enabling participants to gain both conceptual clarity and applied skills in CubeSat technology. Positive feedback was received, with many attendees expressing a desire for similar programs in the future.



The entire workshop was coordinated by Dr. Mohini Naik Gadekar, DBCE and Ms. Liana da Costa, GCQ ensuring seamless execution of all sessions and activities.

National Space Day 2025 Quiz Competition at DBCE

The Don Bosco College of Engineering (DBCE), Fatorda, through the Astronomy Club and the Student Satellite Club Parikrama, organized a Quiz Competition for higher secondary school students on Friday, 22nd August 2025, to celebrate National Space Day.

National Space Day, observed on 23rd August, marks India's historic achievement of becoming the first nation to land a spacecraft near the lunar south pole with Chandrayaan-3. The event aimed to inspire young minds and ignite their interest in astronomy, space science, and India's growing role in global space exploration.



The competition featured three exciting rounds – a Computer Test, an Audio-Visual round, and a Rapid Fire round – testing participants' knowledge, speed, and awareness of space missions and astronomy. The event witnessed enthusiastic participation from schools across Goa, with students displaying sharp intellect and teamwork. After a keenly contested battle, the winners were declared. The First Place was taken by Team Supernova Seafarers (Navy Children School, Dabolim), Second Place by Team Quizstronaut (MEF's Higher Secondary School, Ponda) and the Third Place – Team Trigno Launchers (PES Higher Secondary School, Ponda)

The entire event was coordinated by Dr. Mohini Naik (PI, Parikrama), Dr. Shreyas Simu (Coordinator, Astronomy Club), and Mr. Aniket Naik (Coordinator, Astronomy Club), whose guidance and leadership ensured its grand success. The awards were presented by the chief guest, Mr. Raileen Rego.



Workshop on “Robot Making”

The Robotics Club "Robocom" at Don Bosco College of Engineering, Fatorda, under the guidance of Prof. Flavia Leitao, successfully organized a hands-on workshop on Arduino and building robotic bots like the Line Following Robot (LFR), Robo Racer on 17th October 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 started with the basic introduction of the Arduino and its internal architecture by Gary Araujo, followed by hands-on sessions focusing on interfacing LEDs, sensors, and motors by Vallan Mascarenhas, Sherwin Dias and Jeziah D'Souza. The session provided practical exposure to basic embedded systems and real-time hardware control.



This is followed by a session on Line Follower Robot which focused on the hardware components of the LFR. Vallan and Jeziah explained the key PCB connections and the role of each component in the functioning of the robot. The bot was assembled and tested on a designated track to ensure they functioned as expected, providing the students with an immediate, hands-on experience.

Danely Gomes, Tanish and Gary Araujo 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. Students were then given the opportunity to test their Robo Racers on the track, which 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.



STUDENT'S PARTICIPATION in EXTENAL EVENTS

IEEE DBCE at ICONAT 2025

The 4th IEEE International Conference for Advancement in Technology (ICONAT 2025), sponsored by the IEEE Bombay Section, was held on 20th September 2025 at The International Centre Goa (ICG), Dona Paula.

The event was inaugurated in the presence of eminent dignitaries and participants. The Chief Guest, Mr. Philippe Maurin, Scientific and Higher Education Attaché – Consulate General of France in India, highlighted the importance of international collaboration and the strengthening of Indo-French partnerships in research and higher education. The Guest of Honor, Dr. Purna Gaur, Director, Netaji Subhas University of Technology (NSUT) – West Campus and Chair, IEEE India Council, delivered an inspiring address emphasizing the vital role of academia and IEEE in fostering innovation and preparing the next generation of engineers and technologists. Their addresses set a forward-looking tone for the conference, promoting global cooperation and academic excellence.



Members of the IEEE Student Branch of Don Bosco College of Engineering, under the guidance of IEEE SB Counselor Mr. Yeshudas Muttu, actively attended the conference, gaining exposure to contemporary research trends, professional networking, and international perspectives in technology and innovation. Their participation reinforced the branch's commitment to technical excellence, interdisciplinary learning, and engagement with the wider IEEE community.

Drone Boot Camp Training Workshop

Six students from Don Bosco College of Engineering—Mr. Mazen Rian Benelon Leitao, Mr. Dev Mangesh Kalgutkar, and Mr. Aniketh Diwakar Dongre from the Mechanical Engineering Department, along with Mr. Mayuresh Sujay Patil, Mr. Mehulkumar Maheshkumar Prasad, and Mr. Shounak Suraj Velip from the Electronic and Computer Science Engineering Department—successfully participated in a one-week Capacity Building Workshop titled “Drone Boot Camp Training.” The event was hosted by Government College of Commerce and Economics, Borda, Margao, from 13th to 17th October 2025.

The workshop was inaugurated by Chief Guest Mr. Bhushan Savaikar, Director of Higher Education, Government of Goa. Key contributors included Prof. F. M. Nadaf, Dr. Kavita Asnani, Mr. Harish Chandra from C-DAC Bengaluru, and other distinguished experts.



The program offered a comprehensive blend of theoretical and practical learning focused on drone technology. Day one introduced UAV regulations, classifications, and architecture, with sessions led by Mr. Harish Chandra and Ms. Gifti. Day two delved into UAV communication protocols, covering UART, SPI, and I²C systems, followed by drone frame design and STM32CubeIDE software training.

On day three, participants engaged in 3D modeling using Autodesk Fusion 360, integrating BLDC motors and propellers into digital designs. Day four was dedicated to hands-on drone assembly and flight trials, emphasizing precision and teamwork. The final day involved dismantling the drones for component analysis and a reflective feedback session.

The workshop proved to be an enriching experience, equipping students with vital skills in drone operation, design, and application. It fostered innovation and inspired participants to explore UAVs in diverse sectors.

FIELD VISITS

Field visit at “Selaulim Water Treatment Plant”

On 18th September 2025 students of the SE ECS class visited the Selaulim Water Treatment Plant as part of their academic curriculum to gain practical insights into large-scale water purification processes. The plant, with a treatment capacity of 96 million liters per day, uses alum, lime, and chlorine to purify water for domestic use.

The Key stages observed during the visit included **Intake & Screening**: Removal of large debris from raw water, **Coagulation & Flocculation**: Chemical addition to bind fine particles, **Sedimentation** (Clariflocculation): Settling of flocs as sludge, **Filtration**: Removal of fine particles and microorganisms using sand, gravel, and activated carbon filters, **Disinfection**: Chlorination to ensure water safety, **Storage & Distribution**: Storage in reservoirs and supply via pipelines, **Sludge Management**: Safe disposal of accumulated sludge.

The visit provided valuable exposure to operational practices such as chemical dosing, filtration backwashing, valve control, and quality monitoring, bridging classroom theory with real-world engineering applications. It highlighted the importance of sustainable water management in promoting public health.



The students extend a heartfelt thanks to the college management, faculty members, especially Prof. Kimberly Morais, Mrs. Trima Fernandes e Fizado, and Mrs. Michelle Araujo e Viegas for their guidance. Special appreciation is also extended to Mr. Naryan Kumar and Ms. Ashmita Gaonkar for their expert explanations during the visit.

Field visit at “BITS Goa”

On October 16th, 2025, the Third-year (T.E) and Final-year students of the Electronics and Computer Science (ECS) Department, Don Bosco College of Engineering, Fatorda, took part in a curriculum-enriching field trip to BITS Pilani K.K Birla Goa. The visiting students were warmly welcomed by Mr. Amalin Prince, Head of the Electrical and Electronics Engineering (EEE) Department, who provided an overview of the institution's illustrious journey since its establishment in 2004.

Mr. Prince highlighted on the EEE department's key thrust areas and cutting-edge research initiatives, setting the tone for a day of learning and exploration. Dr. Manish Gupta, Associate Professor, EEE Department, captivated the students with an enlightening session on "Sand to Silicon," and amazed the students on how the discovery of silicon has been one of the transformative impact in the field of electronics and research.



This was followed by Prof. Mriganka and Prof. Sudhanshu Swain, delivering engaging session on power transmission and resources. A comprehensive tour of the EEE department's state-of-the-art laboratories ensued, featuring the Electrical Machines Lab, Instrumentation Lab, PCB Design Lab, Advanced Communication Lab, among others. The students were visibly impressed by the cutting-edge equipment and components on display, gaining valuable insights into the practical applications of theoretical concepts. The students were enriched by the invaluable experiences and knowledge gained during this enlightening field trip. This Coordinator of the Field Trip was Ms. Kimberly Morais.

EXPERT TALKS

Expert Talk on “Know Your Worth”- Essential Financial Literacy for Students, Teachers, and IWN Members

CII-IWN DBCE Student Chapter organized an insightful session on “Know Your Worth”- Essential Financial Literacy for Students, Teachers, and IWN Members on 13th October 2025.

The Session was delivered by Ms. Meeta Gupta, Founder & CEO Moolah for women, Former Head, Asset Management Group, L&T Infrastructure Finance Company Ltd, a distinguished expert in personal finance and financial education.



The event was graced by Ms. Smita Patil Chairperson of CII-IWN, Ms. Sheetal Pai Kane Ex-Chairperson of CII IWN, CII Executive Officer Ms. Sharadha Divkar, CII IWN Members and E-cell members. The Compere for the day was Ms. Rucha Sawant

The session aimed at empowering participants with the knowledge and confidence to make informed financial decisions and to understand the importance of financial independence. Ms. Gupta mentioned that Finance is Engineering for life, and we need to confidently engineer our money and ourselves so that we can design our dreams. She emphasized the key aspects of personal finance including budgeting, saving, investing, managing debt, and to plan for the future.

The session concluded with an engaging interaction and a vote of thanks delivered by Ms. Bhavana Purohit. The session was organized by CII IWN DBCE Faculty coordinator Ms. Melba D'Souza.

STUDENT'S ACHIEVEMENTS & FELICITATION

- Harsh Basarikatti exhibited an absolutely phenomenal performance at the recent University Swimming Championship by securing **two gold medals** in the fiercely competitive 100m backstroke and 100m breaststroke events, and was crowned the **Individual Championship title**. He shattered records, setting a **new swim record of 1 min 17 seconds** in breaststroke category. He was also selected along with two other coaches by the Goa Swimming Association and the Swimming Federation of India to be part of the 11th Asian Swimming Championship, held in Ahmedabad from 28th September to 1st October 2025.



- ROBOCOM delivered an extraordinary performance and achieved a historic victory by securing **all three top positions** in the LFR event at Techyon 2K25, held at Padre Conceição College of Engineering (PCCE) on 23rd and 24th October 2025. The **1st Place** was secured by Jeziah D'Souza, Vallan Mascarenhas, Mazen Leitao, and Zoe Zuzarth; the **2nd Place** by Mazen Leitao, Kingel Fernandes, Vallan Mascarenhas, Danely Gomes, and Gary Araujo; and the **3rd Place** by Vallan Mascarenhas, Mazen Leitao, Ayyaz Khan and Kingel Fernandes.



- The members of Symphonia, the Music Club of Don Bosco College of Engineering, Goa participated in the intercollegiate choir competition, Celestia, hosted by Don Bosco College, Panjim, and Secured the Third Place, on September 25, 2025. Sherwin, Vallan, Alric, Kingel and Sancha, were the ECS student members among the others.



- Robocom team of DBCE got the 2nd place in the Maze Follower competition organized by the ARM Society of Goa College of Engineering (GEC) on 31st October 2025, for their very first attempt at designing and competing with a Maze Follower robot. Congratulations to Vallan Mascarenhas and Kingel Fernandes for leading this remarkable effort, and sincere appreciation to Danely Gomes and Mazen Leitao for their valuable support and contributions throughout the preparation and execution phases.



- A number of students certified for NPTEL courses like Deep Learning and Computer Vision, Soft Skills, Entrepreneurship, Cloud Computing, Patent Law for Engineers and Scientists, Public Speaking, Python for data Science, etc, and passed with Elite and Elite+Silver.

- Aadya Raikar, Jamshed Nasir Ali and Srujan Anil Kalyanshetty secured the 1st place for IEEE PaperQuest on AR VR Gaming.



- Rucha Sawant and Loxley Dias won IEEE paper quest 2.0 under the topic Data analytics and Cryptography



- Vihaan Naik Kamali, Vanshika Gupta and Tabrej Agasnali won IEEE paper quest 2.0 under the topic semiconductor technology and design



- Elivia Silva, Maryann Coutinho and Danely Gomes got the 3rd place for Goa University inter-college football



- Jamshed Nasir Ali and Samuel Fernandes got the 2nd place for Goa University inter-college basketball



- Alric Antao, Danely Gomes, Elivia Silva won the IEEE PaperQuest on IoT devices



- Shravani Swami got the 1st place for Ecell Analysis Paralysis.
- Allantry Rodrigues got the 1st place in Photography for Inspirus 2025.
- Shravani umarye, Khushi shirsat - 2nd place in SANKRITI Trash to treasure.

- Devang got the 3rd Place for Mini Technical Project Kshitij 2025 DBCE
- Varadvir Bhagat got the 2nd Place for Frame the Fame (Photography competition) SANKRITI 2K25 CESA DBCE
- Students who took up NPTEL courses to get their Honours degree are Shreyash Shinde, Ketan Gaunkar, Varun Castello, Aryan Khochare, Sonal Singh, Shravani Ubale, Nilay Shanbhag.



- Vanshika Gupta is selected as the IEEE Region 10 Young Professionals Volunteer Collective 2025.



- Loxely Dias and Sir Aloysius Baptista won 2 gold medals for Inex, for the hardware kits done for the labs.



- Suzane Andra got the 1st Place in Germinate it by DBCE ECELL



- Shruta Jadhav got the 1st Place for Eureka, Avinya 4.0 DBCE E-Cell.
- Shruta Jadhav got the 1st Place for Reel Making Competition Goa Waste Management Corporation Team led by Faizan Akabani (BE Comp)



- Aliya Saldanha, Sania Shaik, Raynel Dias and Aves Sayed got the 2nd Place for Mini Technical Project Kshitij 2025 DBCE



- Vallan, Sancha, Sherwin and Shravani got the 1st Place for Mini Technical Project Kshitij 2025 DBCE

- Shruta Jadhav, Anusha Shinde, Suzane Andra and Vedika Balnaik got the 1st Place for REEL Competition on Scheme Promotion CARES, DTE Goa Guided by Faizan Akabani (BE Comp).



TRAINING AND PLACEMENTS

Internship

The students of BE ETC (VIIth Semester) underwent a two month long internship in various companies in and around Goa. The internship commenced on 14th July 2025 till the 6th of September 2025. All the students completed their internship in the physical mode both in hardware and software areas. The different companies that were selected for internship were IFB, Commscope, Optel, Electrocontrols, Syntegon, Bodami, Codanto Fluxatic, SJ Innovations, Sierra Circuits, Einfochips, Vidhya Vikas Mandal Frover labs, Airport Authority of India, Persistant Systems, Yas Kawa India Pvt. Ltd., Hazrech, Nestle etc.

A total of 52 students completed their internship successfully within the stipulated time. It was great learning experience for the students who were exposed to the industry environment and made aware of industry expectations. Companies also expressed their happiness to see the eagerness and willingness of our students to learn. They also commended their discipline and punctuality.

The entire Internship activity is coordinated by Prof. Samantha Cardoso.

FACULTY INITIATIVES

CERTIFICATIONS/ AWARDS/ ACHIEVEMENTS

- Dr. Mohini Naik, was felicitated by the Bureau of Indian Standards (BIS), Hubli Branch Office, for her active participation and outstanding contribution to Standard Club activities. The recognition was conferred during the BIS Stakeholders Conclave organized on the occasion of World Standards Day 2025, held on 9th October 2025 at Nanutel Hotel, Margao, Goa.
- Successfully completed all 8 modules of the NITTT (National Initiative for Technical Teachers Training)



- Prof. Yeshudas Muttu was invited to serve as a Session Chair at the 4th International Conference for Advancement in Technology (ICONAT 2025) held on 20th September 2025 at The International Centre Goa (ICG), Dona Paula, Goa.



- Prof. Melba D'Souza Awarded Elite Certificate for being the topper and getting a consolidated score of 88% in the NPTEL online certification 8week course(July-September 2025) in the course System Design through Verilog.



- Prof. Trima Piedade Fernandes e Fizaro has successfully completed 12 weeks course in " Privacy and Security in Online Social Media" with a consolidated score of 53% during the period of Jul-Oct 2025.



- Dr. D. S Vidhya was awarded an appreciation Certificate for her instrumental role as a SPOC and brand Ambassador of the SWAYAM-NPTEL local Chapter



WORKSHOPS/SEMINARS/EXPERT TALKS ATTENDED

- Prof. Melba D'Souza attended and completed 8 week NPTEL AICTE Faculty Development programme(July-September 2025) in the course System Design through Verilog.
- Dr. Vidhya D.S, Prof. Michelle Araujo, Prof. Trima Fernandes, Prof. Samantha Cardoso, Prof. Anisha Cotta, Prof. Melba D'Souza, Prof. Flavia Leitao and Dr. Mohini Naik attended a one week ISTE approved FDP on "Unlocking Gen AI : Concepts, Tools & Research driven Applications", organized by the Computer department of DBCE from 24th November to 28^h November 2025.

CONFERENCE / JOURNAL PUBLICATIONS

- Dr. Mohini Naik published a Paper titled “Novel Elliptical Monopole Antenna with DGs for 5G Sub-6 GHz Applications”, in Journal of Circuits, Systems and Computers published by World Scientific, on 28 October 2025, ISSN (print): 0218-1266 | ISSN (online): 1793-6454, 2024 Impact Factor: 1.0 /SCI, H-index: 43 (Q3).

UPCOMING EVENTS

- Field trip planned for SE ECS on 11th February 2026
- TekFest planned for ECS and Mechanical Department on 5th and 6th March 2026
- Summer School planned from 6th to 10th April for higher secondary students
- Field trip planned for TE and BE ECS on 7th and 11th April 2026, resp.
- Workshop planned for Satellite student's club on 11th April 2026
- Technix (Project Exhibition), planned for 22nd May 2026

COMMUNITY OUTREACH

IEEE STEM Week 2025: Empowering Rural Students through the Micro:bit

The IEEE DBCE Student Branch celebrated its STEM Week from 8th to 12th September 2025 with a workshop titled “Code • Create • Innovate: A Micro:bit STEM Journey”, organized in association with the Unnat Bharat Abhiyan Campaign. The sessions were conducted for students of Government High School, Balli; Government High School, Shigao; Government High School, Malkarnem; Sacordem Education Society; and St. Joseph High School, Usgao, inspiring them to explore coding, creativity, and innovation through hands-on Micro:bit activities.



The response from students across all five schools was overwhelmingly positive, marked by enthusiasm, teamwork, and a growing interest in robotics, IoT, and programming. This initiative was made possible through the dedicated efforts of the 25-member IEEE DBCE Student Branch STEM team led by Mr. Loxley Dias, under the guidance of IEEE Student Branch Counselor, Mr. Yeshudas Muttu.

