



FLASH

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

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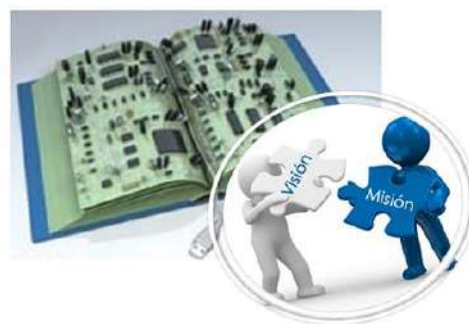
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VISION

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

MATLAB
Xilinx 14 Version
OSCAD
MAGIC
LabVIEW
OCTAVE
POISARPro

KITS

8085 kits, 8086 kits
8051 kits
ARM kits
PIC kits
PLC kits
LAN Trainer kits
OFC Kits
PSoC ARM Cortex Kits

One Day Awareness and Training Session on ECSBC-C & ECSBC-R (ENS)

The A One Day Awareness and Training Session on Energy Conservation and Sustainable Building Code (ECSBC-C & ECSBC-R – ENS), Scope and Compliance was organized on 6th March 2026 at Don Bosco College of Engineering, Goa by the State Designated Agency – Electricity Department, Government of Goa.

The program aimed to create awareness about energy-efficient building practices, sustainable development, and compliance with energy conservation building codes. The session was attended by 58 participants, including faculty members and students from the Electronics and Computer Science, Civil Engineering, and Mechanical Engineering departments.

The inaugural ceremony was graced by Fr. Wilfred Fernandes, Director of Don Bosco College of Engineering, Dr. Neena Panandikar, Principal, Ms. Shivani Sardesai, Executive Engineer, Electricity Department Goa, Dr. Mohini Naik, Assistant Professor from Don Bosco College of Engineering, and ECBC Master Trainers Mr. Gaurang Lele and Mr. Govinda Somani.

During the inaugural session, Principal Dr. Neena Panandikar welcomed the gathering and emphasized the importance of sustainable development and energy-efficient infrastructure in modern construction practices.

Ms. Shivani Sardesai provided an overview of the ECSBC code status in Goa and highlighted the initiatives taken by the State Designated Agency, Electricity Department to promote energy conservation and sustainable building practices in the state.

The interactive sessions provided participants with valuable insights into energy-efficient building design and the implementation of sustainable building codes.

The session proved to be highly informative and beneficial, providing participants with valuable knowledge on energy conservation and sustainable building practices.



The program was coordinated by Dr. Mohini Naik, Assistant Professor in the Department of Electronics and Computer Science, Don Bosco College of Engineering, and Ms. Pratibha Matel from the State Designated Agency, Electricity Department, Government of Goa.

Summer School: Smart Circuits with Python

The Department of Electronics and Computer Science at Don Bosco College of Engineering (DBCE), Fatorda, successfully organized a week-long Summer School titled “Smart Circuits with Python”, funded by the Goa State Research Foundation (GSRF), from April 6 to 10, 2026. The program aimed to introduce students to the integration of Python programming with electronic circuit design, enabling them to design, control, and automate hardware systems. This initiative helped participants develop skills to make electronic systems more intelligent, efficient, and interactive.



The inaugural ceremony featured Professor Savio Faleiro as the Chief Guest, who commended the department’s efforts in promoting data literacy among school students. He encouraged the participants to actively engage in coding exercises and emphasized the importance of developing strong analytical and problem-solving skills, which are essential in today’s technology-driven world.

The Summer School Program witnessed enthusiastic participation from students representing several schools across Goa, namely Bhatikar Model High School (Gogol), Fatima Convent High School (Margao), Loyola High School (Margao), Mahila Nutan English High School (Margao), Our Lady of Rosary High School (Fatorda), Our Lady of Snow High School (Raia), Perpetual Succour Convent High School (Navelim), Shishu Vikas High School (Shantinagar), and St. Joseph High School (Aquem).

The sessions were conducted by faculty members from the Department of Electronics and Computer Science, including Ms. Mathilda Colaco, Mr. Deron Rodrigues, Dr. Mohini Naik, and Mr. Yeshudas Muttu. They delivered engaging and interactive sessions that effectively combined conceptual learning with practical implementation. The workshop was coordinated by Ms. Mathilda Colaco and Mr. Deron Rodrigues. The *Smart Circuits with Python* Summer School was carefully structured over five days to provide a progressive blend of theoretical understanding and hands-on experience in electronics and programming.

The program commenced with the inaugural ceremony, setting the tone for the week. This was followed by introductory sessions on electronic circuits and Python programming, helping students build a foundational understanding of hardware and software concepts. In the afternoon, participants engaged in hands-on sessions involving breadboard usage and basic circuit building, culminating in simple circuit demonstrations.

The second day focused on strengthening Python programming skills. Students explored variables, data types, input handling, operators, decision-making, loops, and functions through interactive hands-on sessions. Later, they were introduced to MicroPython and basic microcontroller setup, bridging the gap between programming and hardware interaction.



Participants were introduced to the ESP32 microcontroller, gaining insights into its features and applications. This was followed by practical sessions where students programmed the ESP32 using MicroPython to control LEDs and build their first smart circuits, reinforcing embedded system concepts.

The fourth day emphasized interfacing techniques. Students learned about sensors and actuators, followed by hands-on sessions involving interfacing various sensors such as IR, temperature and humidity, and soil moisture sensors. They were also introduced to actuators like motors and buzzers, understanding real-world automation applications.

The final day introduced students to the basics of the Internet of Things (IoT). The program concluded with sensor integration, where participants learned to read and process real-time data, enabling the development of smart and interactive systems. The valedictory function marked the culmination of the Summer School, during which students received their certificates and shared positive feedback about the workshop.

Overall, the program successfully provided young learners with foundational exposure to smart circuits, Python programming, and hands-on electronics. It concluded on an inspiring note, motivating students to further explore the fields of embedded systems, automation, and intelligent hardware design.

TEKFEST 2.0

TekFest 2.0, a collaborative technical festival organized by the Department of Mechanical Engineering (MESH) and the Department of Electronics and Computer Science (ENCinC), was successfully held at Don Bosco College of Engineering, Fatorda. The event provided a vibrant platform for aspiring engineers to showcase their technical skills, creativity, and innovative ideas.

The inaugural ceremony, held on 8th April 2026, was graced by the esteemed presence of the Chief Guest, Ms. Joy Afonso, Head of Human Resources at IFB Industries, Goa. The occasion was further honored by the presence of Rector Rev. Fr. Ralin De Souza, Principal Dr. Neena Panandikar, Faculty Coordinators Ms. Kimberly Morais, Ms. Anisha Cotta, Mr. Suraj Marathe, and Mr. Sanjeel Naik. Also present were Mr. Mazen Leitão, Chairman of the MESH Council, and Mr. Preston DSilva, Chairman of the ENCinC Council, along with staff members, students, and participants.



The program commenced with the traditional lighting of the lamp, followed by a prayer invoking divine blessings. A comprehensive video presentation highlighting the achievements and initiatives of both the Mechanical Engineering and Electronics and Computer Science departments was showcased.

Mr. Preston Dsilva delivered a brief overview of the festival, outlining its objectives and significance. Dr. Neena Panandikar in her address expressed her gratitude to the Chief Guest and appreciated the faculty coordinators for their dedicated teamwork and collaborative efforts. Rev. Fr. Ralin De Souza, in his speech, emphasized the importance of applying knowledge and maintaining integrity in the learning process. The Chief Guest, Ms. Joy Afonso, described the event as a celebration of creativity and technological talent. She highlighted the increasing need to bridge academic learning with real-world industry practices, particularly in the manufacturing and electronics sectors.

The inaugural session concluded with a vote of thanks proposed by Mr. Mazen Leitão. The event was compered by Mr. Reeve Fernandes and Ms. Esther Mascarenhas.

The fest provided an engaging platform for participants to demonstrate their technical knowledge, problem-solving abilities, and teamwork through a series of exciting competitions. The event was coordinated by Asst. Prof. Anisha Cotta, Asst. Prof. Kimberly Moraes, Assoc. Prof. Suraj Marathe, and Asst. Prof. Sanjeel Naik, whose dedicated efforts ensured the smooth planning and execution of the festival.



TekFest 2.0 featured a diverse range of competitions, including Robo Soccer, Robo Racer, Line Follower, Robo Sumo, Figma, and Fun with Coding, catering to students with varied technical interests and skill sets. The robotics events challenged participants to design and program intelligent robotic systems, while the Figma and coding competitions encouraged creativity, logical thinking, and software development skills. The enthusiastic participation of students and the competitive yet collaborative atmosphere made the event a grand success.

TekFest 2.0 not only enhanced students' technical competencies but also promoted innovation, interdisciplinary learning, and a spirit of healthy competition.



Technix 2026 – National Level Project Competition

Technix 2026, the National Level Project Competition, was organized by the Department of Electronics & Computer Science in collaboration with ESInC. Hosted annually, the event aims to foster innovation, creativity, and technical excellence among aspiring engineers by providing a platform to showcase innovative projects and research ideas. The competition was organized under the guidance of the Final Year Project Quality Assurance Committee and coordinated by Asst. Prof. Anisha Cotta and Asst. Prof. Melba D'Souza. The student coordinators for the event were Sleydon Madeira and Anusha Shinde.

The event was graced by Mr. Ryan Pinto, CTO, The Grit City, Goa, as the Chief Guest. The projects were evaluated by an esteemed panel of judges comprising Mr. Mrunal Thakur, Senior AI Engineer at Contractzy, and Ms. Chrislin Fernandes, Senior Executive Engineer at IFB Industries Limited, Verna, Goa. The occasion was also attended by Rev. Fr. Ralin D'Souza (Rector), Dr. Neena Panandiker (Principal), Dr. Kala Nayak (Registrar), Dr. D. S. Vidhya (Head of Department), along with faculty members, participants, and students.



The competition was conducted in two phases. Phase I involved the submission and evaluation of project abstracts. Following a rigorous screening process, 27 abstracts were shortlisted for the final round, and the results were announced on 15th May 2026. The shortlisted teams were invited to present their projects before the panel of judges during the final phase of the competition.

Technix 2026 received an enthusiastic response from engineering institutions across the region, with more than 35 project teams participating. The institutions represented included Goa College of Engineering, Agnel Institute of Engineering and Management, New Horizon College of Engineering, Padre Conceicao College of Engineering, Government Polytechnic Curchorem, Shree Rayeshwar Institute of Engineering and Information Technology, and Don Bosco College of Engineering. The projects showcased reflected a diverse range of emerging technologies and engineering disciplines, including Artificial Intelligence, Machine Learning, Robotics, Embedded Systems, Augmented Reality, Signal Processing, Biomedical Engineering, Communication Engineering, 3D Printing, and Mechatronics.

The First Prize in the Hardware Category was awarded to the project “Synapse-Connect” from Don Bosco College of Engineering. The project team comprised Rucha Sawant, Ridhimi Vernekar, Lenoy Menezes, and Loxley Dias, under the guidance of Dr. Shreyas Simu and Asst. Prof. Anisha Cotta. The Second Prize was secured by the project “Design and Development of Automation Strategy for Low Tension Distribution Lines” from Goa College of Engineering. The team members were Lakshdip Fatarpekar, Samresh Surya Prabhugaonkar, Gajendra Rohan Kerkar, and Vithoba Pirankar, guided by Dr. Jayesh Priolkar.

The First Prize in the Software Category was awarded to “Konkani Companion” from Padre Conceicao College of Engineering. The project was developed by Adrian Josephy Fernandes, Wendel Dominic Fernandes, Saihaan Shaik Muzawar, and Braise John Fernandes under the guidance of Mrs. Avita A. Lotlikar and Mrs. Tina Vaz.



The Second Prize was won by “Drishti: Eye Care App” from Don Bosco College of Engineering. The project team consisted of Disha Talaulikar, Saumya Shenvi Mauzeekar, and Aditi Vadkar, guided by Asst. Prof. Deron Rodrigues and Asst. Prof. Melba D’Souza.

Technix 2026 successfully brought together students, academicians, and industry experts on a common platform to celebrate innovation, technical excellence, and collaborative learning. The event provided participants with valuable exposure, constructive feedback from industry professionals, and an opportunity to demonstrate their engineering skills and creativity.



STUDENT'S CORNER

Workshops/Seminars/In-house Trainings/ Competitions

Hands on Session on “Effective use of AI: Tools and Techniques”

CII-IWN DBCE Student's Chapter of Don Bosco college of Engineering organized a Hands-on session on “Effective Use of AI: Tools and Techniques” on 15th May 2026 to help students understand the growing role of Artificial Intelligence in academics and professional work. The session was conducted by Ms. Nestinka Rebello, Director and COO of CodeMax IT Solutions Pvt. Ltd., who shared valuable insights on the practical use of AI tools and modern prompting techniques.

The event was graced by the presence of Ms. Sonia Kuncolienkar, Ex- Chairperson of CII–IWN, Team from Code Max IT Solutions Pvt. Ltd Ms. Raveena Rivonkar and Salina Raikar and CII IWN Members. The session was organized by CII IWN DBCE Faculty coordinator Ms. Melba D'Souza and the Compere for the day was Ms. Raynel Dias.



The session began with an introduction to Artificial Intelligence and its increasing impact across different industries. The speaker explained how AI can be effectively used to improve productivity, creativity, learning, and problem-solving. Various AI tools currently available for tasks such as content generation, coding assistance, research, presentations, design, and data analysis were introduced and demonstrated.

The participants actively used some of the AI tools discussed during the presentation. Students were guided through practical exercises that demonstrated how AI can assist in generating ideas, improving written content, simplifying tasks, and enhancing efficiency in day-to-day work.

Overall, the talk was highly informative and beneficial for students, as it provided both theoretical knowledge and practical exposure to AI technologies. The session encouraged participants to explore AI responsibly and effectively for academic, personal, and professional growth.

IEEE Day 2025: Celebrating Technology and Collaboration

The IEEE Day was celebrated on 14th October 2025 by the IEEE DBCE Student Branch at Don Bosco College of Engineering. Coordinated by IEEE members Ms. Shruta Jadhav and Mr. Sydney Dourado, the event was organized to commemorate IEEE Day and to promote collaboration, innovation, and engagement among students.

The program commenced at 1:30 PM with a brief introduction highlighting the significance of IEEE and its role in advancing technology for humanity. This was followed by the distribution of badges to the Executive Committee (ExeCom) members by IEEE DBCE Branch Counselor, Prof. Yeshudas Muttu, and IEEE WIE Mentor, Dr. Mohini Naik. A cake-cutting ceremony was conducted as part of the celebration, symbolizing the spirit of IEEE Day.



Following this, Prof. Yeshudas Muttu addressed the gathering, sharing insights on the importance of being part of professional technical communities and the opportunities offered by IEEE for students and young professionals. Dr. Mohini Naik motivated students to actively participate in IEEE DBCE activities and derive maximum benefit from their IEEE membership. Several interactive activities were organized during the event to encourage participation and teamwork. The event concluded with a vote of thanks delivered by IEEE DBCE Vice-chair, Mr. Luke Fernandes.



FIELD VISITS

Field visit at “Nestle India Ltd”

The CII(Confederation of Indian Industry) IWN(Indian Women Network) DBCE Student Chapter of Don Bosco College of Engineering (DBCE) organized an industrial field trip to the Nestle India Ltd, Usgao, Goa on 11th March 2026. The fieldtrip was attended by CII IWN student members who were accompanied by the faculty coordinator Ms. Melba D’Souza.

The visit aimed to give students practical exposure to real-world industrial processes and manufacturing practices followed in a global food company. On arrival, the students were first briefed about the strict safety and hygiene procedures followed inside the factory and were provided with special safety shoes, lab coats, and hair covers. Before entering the production area, the students vacuumed their clothes to remove dust particles, washed their hands, and applied sanitizer to maintain hygiene standards.

Inside the factory, the students observed the process of chocolate manufacturing and saw various advanced machines used in production. It was interesting to see robots, automation, and manual labour working together efficiently. The machinery and production systems were highly organized and demonstrated modern industrial practices.



The visit concluded with refreshments, where we were served tea and chocolates. It was organized by CII IWN DBCE CHAPTER faculty Coordinator Ms. Melba D’Souza.



IEEE DBCE SB Organizes an Educational Tour to “Indore”

The IEEE Student Branch of Don Bosco College of Engineering (DBCE), Fatorada, organized its 7th Educational Tour to exclusively for IEEE student members from February 16 to 20, 2026, under the guidance of IEEE Branch Counselor, Prof. Yeshudas Muttu. A total of 69 IEEE student members, accompanied by four faculty members—Prof. Yeshudas Muttu, Prof. Deron Rodrigues, Prof. Trima Fernandes, and Prof. Carol Cardozo—participated in the tour, which included visits to Balaji Wafers Pvt. Ltd., Indore Sahakari Dugdh Sangh Maryadit: Sanchi, and IIT Indore.

The highlights of the visit were as follows:



On 16th February 2026, the students visited Balaji Wafers Pvt. Ltd., one of India’s leading snack manufacturers. Upon arrival, the students attended an introductory session where Mr. Rahul Jain and the other company officials explained the overall production workflow and quality standards.

The students were then escorted to the Processing Division, where they were enlightened about Process Engineering and the selection of potato varieties based on specific gravity for optimal texture. Following this, the students visited the Frying and Seasoning Unit; here, they were explained the working of SCADA (Supervisory Control and Data Acquisition) systems and the use of Electrostatic Seasoning for uniform taste.



Further, the students visited the Quality Control Lab, where they were introduced to Free Fatty Acid (FFA) analysis and HACCP safety protocols.

The next area to be visited was the Automation and Logistics wing, wherein the students were made aware of Mechatronics applications, including Robotic Palletizers and Automated Storage and Retrieval Systems (ASRS). The visit concluded with a session in the conference room, where students were briefed on the company's operational protocols and its historical establishment.

On 17th February 2026, the students visited Sanchi Milk Centre, where they gained practical exposure to large-scale dairy processing operations. The students were briefed on the milk procurement system, which collects milk from over 5,000 local farmers, and the initial quality assessment phase, where milk is tested for Fat content, Solids-Not-Fat (SNF), and purity.



On 18th February 2026, the students visited the Indian Institute of Technology (IIT), Indore, an Institute of National Importance. The visit began with an orientation session where Mr. Nitin Srivastava and some research scholars explained the institute's research-driven culture and interdisciplinary approach to Artificial Intelligence, Sustainable Energy, and Semiconductor Technologies. A significant highlight was the Electric Vehicle (EV) Testing Bay, where students were enlightened on BLDC Motor performance and control. Further, the students visited the Makerspace, which showcased facilities for 3D Printing, fabrication, and prototype development.

The IEEE Educational Tour proved to be an enriching experience, providing students with exposure to cutting-edge technology across multiple industries while also allowing them to explore Indore's industrial and academic landscape. The efforts of the IEEE Student Branch Counselor, Prof. Yeshudas Muttu, along with the IEEE tour committee of Don Bosco College of Engineering, were instrumental in the successful organization of this educational tour.



EXPERT TALKS

Expert Talk on “Entrepreneurship and Innovation Career Opportunities”

On 18th February, Mr. Ragvendra Bhat delivered an insightful talk on Entrepreneurship and Innovation Career Opportunities to the second-year Computer Engineering students of DBCE, Fatorda.

During his session, he highlighted emerging and high-potential sectors such as energy and climate change, emphasizing the urgent need for innovative and sustainable solutions in these areas. He explained that innovation can take place across multiple dimensions, including:

- Product Innovation – Developing new or improved products
- Process Innovation – Enhancing methods of production or service delivery
- Business Model Innovation – Creating new ways of delivering value
- Social Innovation – Designing solutions to address societal challenges



Mr. Bhat also discussed various innovation-driven career paths available to engineers, such as Founder / Entrepreneur, Product Builder, Researcher, Innovation Manager. Additionally, he emphasized that engineers must actively develop essential technical and practical skills to succeed in innovation-based careers. He encouraged students to build strong foundations in coding, prototyping, electronics, CAD (Computer-Aided Design), and AI tools.

He concluded by highlighting that industry is increasingly driving innovation-based careers, and engineers who combine technical expertise with creativity and entrepreneurial thinking will be better positioned for future opportunities.

The talk was coordinated by Ms. Shweta Morajkar and Ms. Kimberly Morais. The speaker was connected to the institution by Mr. Pranay Prabhu Gaonkar of Menezes Gaonkar LLP. The session was highly informative and motivating for the students

STUDENT'S PARTICIPATION IN EXTERNAL EVENTS

The Symphonia Music Club from Don Bosco College of Engineering (DBCE), Fatorda, participated in the traditional Lenten motet singing event titled “A Sound of Angels” on March 2, 2026, at Ravindra Bhavan, Margao, organized by the Pilar Music Academy, under the Society of Pilar to reflect a spirit of prayer, reflection, and penance. The club functions under the guidance of its incharge Prof. Yeshudas Muttu, who actively encourages students to nurture their musical talents and contribute to cultural and liturgical traditions. Led by Mr. Alric Antao, the students & faculties dedicated significant time and effort to prepare for this specialized form of sacred singing. The team performed admirably and secured the consolation place in the competition.



STUDENT'S ACHIEVEMENTS & FELICITATION

- The Robotics Club of DBCE (ROBOCOM), under the mentorship of Prof. Flavia Leitao, participated for Resonance 2026, at GEC, won the second place for Line follower Robot, on 24th April 2026. The participants were Preston, Reuben, Mukta, Jeziah and Soham



- The Robotics Club of DBCE (ROBOCOM), under the mentorship of Prof. Flavia Leitao, participated in the MazeAmaze event at Cultrang held at IIT Goa on 31st January 2026.

The event consisted of a single round where bots were required to solve a maze in the shortest possible time. Mr. Vallan Mascarenhas' bot delivered an exceptional performance by solving the maze in the shortest time among all participants, securing 1st place in the event.

- The Robotics team of DBCE (ROBOCOM) under the guidance of Prof. Flavia Leitao, participated in Techtwister 2026, held at RIT Goa on 24th March 2026. Robocom team demonstrated exceptional technical proficiency and coordination, securing both the first and second positions in the LFR event. The first position was secured by Mazen Leitao, Vallan Mascarenhas, Kingel Fernandes, and Danely Gomes. The second position was achieved by Kingel Fernandes, Clayne Pereira, Danely Gomes, and Mazen Leitao.



- The Robotics team of DBCE (ROBOCOM) under the guidance of Prof. Flavia Leitao, participated in the Line Follower event at TekFest 2.0 held at Don Bosco College of Engineering, Fatorda, on 8th April 2026. Robocom was represented by three teams led by Jezziah Dsouza, Jayden Fernandes, and Soham Gawas. Robocom delivered an outstanding performance, securing the top two positions. Jezziah's team won 1st place, while Jayden's team secured 2nd place.



- The Robotics Club of DBCE (ROBOCOM), under the guidance of Prof. Flavia Leitao, participated in the Line Follower event at SPARX 2026, GEC on 21st April 2026, with three teams led by Mazen Leitao, Vallan Mascarenhas, and Jayden Fernandes. In the final round, Mazen's team secured 2nd place, while Vallan's team achieved 3rd place.



- The Robotics Club of DBCE (ROBOCOM), under the guidance of Prof. Flavia Leitao, participated in the Line Follower event at Tech Urja hosted by AITD with three teams led by Vallan Mascarenhas, Preston D'Silva and Reuben Fernandes. In the final round, Vallan's team delivered an outstanding performance to secure 1st place.



- A number of students certified for NPTEL courses like AI in Human Resource Management, Business Ethics, Cloud Computing, E-Business, Foundations of Deep Learning: Concepts and Applications, Innovation in Marketing and Marketing of Innovation, Introduction to Internet Of Things etc, and passed with Elite + gold, Elite and Elite+ Silver.

NPTEL STAR Achievers

- Maryann Coutinho was recognized as a NPTEL Motivated Learner and NPTEL Discipline Star by NPTEL.
- Kinsel Monteiro was recognized as a NPTEL Motivated Learner and NPTEL Believer by NPTEL
- Yeshudas Anthonydas was recognized as a NPTEL Enthusiast, NPTEL Discipline Star, and NPTEL Domain Scholar by NPTEL

- Sanil P. Naik, Rigel Fernandes, Giles Borges, Vanosh Fernandes, won the Lawn Tennis (Men), at Goa University, on 20th to 21st January 2026.
- Gargi Mohite, Danely Pearl Gomes, Vedika Raju Balnaik, Suzane Andra, Sabiha Muchagod, Raynel Dias, Anusha Shinde, Aves Sayed, won the Handball (Women), at Goa University, on 1st to 5th March 2026

TRAINING AND PLACEMENTS

- Disha Talaulikar has been placement in Tangentia
- Om Naidu, Rucha Sawant, Saumya Mauzeekar and Shawn D'costa have been placement in Claysys Placement
- Bhavana C. Purohit, Cloy Rodrigues, Shams Shaikh, Reaiah Fernandes, Ridhima Vernekar and Vanshika Gupta have been placement in ACIES

FACULTY INITIATIVES

CERTIFICATIONS/ AWARDS/ ACHIEVEMENTS

- Prof. Deron Rodrigues presented a research paper titled “Pilot Overhead Analysis of Intelligent Reflecting Surface-Assisted Multi-User Systems” at 4th IEEE International Conference on Modelling, Simulation, and Intelligent Computing (MoSiCom 2025), organized by BITS, Pilani – Dubai Campus in Dubai, United Arab Emirates.
- Completed 20-Day Skill Development Training Program on Cyber Security organized by C-DAC under the joint venture of ISTE and BNY (22 May – 27 June 2025).
- Successfully completed Module 6: Technology Enabled Learning & Life Long Self Learning and Module 8: Creative Problem Solving, Innovation and Meaningful R&D under the National Initiative of Technical Teachers’ Training (AICTE), September 2025.



- Completed NPTEL-AICTE FDP on Foundations of Deep Learning: Concepts and Applications (12 Weeks), January–April 2026. Earned Elite + Topper 5% certification in the same.

- 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



- Prof. Mathilda Colaco successfully completed 6: Student Assessment and Evaluation and Module 8: Institutional Management & Administrative Procedures under the National Initiative of Technical Teachers' Training (AICTE), February - March 2026 (8weeks each).



- Prof. Flavia Leitao successfully completed Module 6: "Student Assessment and Evaluation" under the National Initiative of Technical Teachers' Training (AICTE), February - March 2026 (8weeks).



WORKSHOPS/SEMINARS/EXPERT TALKS ATTENDED

- Dr. Vidhya D. S. attended a two-week Faculty Development Program (FDP) on "Next-Generation Data Science and Artificial Intelligence: Industry-Driven Technologies and Solutions (DSAI-2026)," organized by Anant Gyan Knowledge and Skills Private Limited from 16 March to 28 March 2026.
- Prof. Trima Piedade Fernandes attended a six days Faculty Development Program (FDP) on, "Sustainable Grid: Trends and Challenges in Renewable Energy Integration", Organized by Department of ELE and Department of EEE, Toc H institute of Science and Technology, Arakkunnam, Ernakulam, in collaboration with IEEE-PES, Kerala Chapter, from 15th to 20th June 2026.

CONFERENCE / JOURNAL PUBLICATIONS

- Prof. Deron Rodrigues Presented the research paper “Pilot Overhead Analysis of Intelligent Reflecting Surface-Assisted Multi-User Systems” at the 4th International IEEE Conference on Modeling, Simulation and Intelligent Computing (MoSiCom 2025) organized by IEEE and BITS Dubai, held from 10–12 December 2025.
- Prof. Trima Piedade Fernandes e Fizardo and Prof. Michelle Lilian Araujo presented a paper titled “Interior Design App Using AR and AI” at the 1st International Conference on Recent Advances in Computer Engineering [ICRACE-2026], 23rd -24th April 2026 [Mode: Hybrid] in association with Computer Society of India (CSI) Pune Chapter, held at Modern Education Society’s Wadia College of Engineering, Pune. Publication Partner- Cureus Journal of Computer Science (Part of Springer Nature), Volume 1, ISSN: 2347-3649, Pg no. 327-331
- Prof. Flavia Leitao and Prof. Melba D’Souza presented a paper titled, “E- Medicare”, at the International Symposium on Artificial Intelligence in Education-2026 (ISAIED - 2026)”, on 2nd May 2026, organized by International House of Education, Bangaluru in association with Don Bosco College of Engineering, Goa.
- Prof. Flavia Leitao and Prof. Kimberly Morais presented a paper titled, “Design and Development of a Drone Charging Ecosystem”, at the International Symposium on Artificial Intelligence in Education-2026 (ISAIED -2026)”, on 2nd May 2026, organized by International House of Education, Bangaluru in association with Don Bosco College of Engineering, Goa.
- Dr. Vidhya D. S. presented a research paper titled “Benchmarking Goa's Literacy Success: A Comparative Analysis with Finland, Japan, and Ukraine” at the 8th International Conference on Communication and Computational Technologies (ICCCT 2026) held on 13–14 February 2026. The conference was organized by the Soft Computing Research Society (SCRS).
- Dr. Vidhya D. S. presented a research paper titled “Evaluating AI’s Role in Visualizing the Evolution of Goan Culture and Learning” at the International Symposium on Artificial Intelligence in Education (ISAIED–2026) held on 2 May 2026. The symposium was organized by the DBCE Association in collaboration with IHE.
- Dr. Mohini Naik presented a paper titled "Design and Development of Extended Patch Antenna for Ultra-Wideband and X-Band Applications" was accepted and presented at the International Wireless, Antenna & Microwave Symposium (WAMS 2026), held from 10–13 June 2026 at B V Raju Institute of Technology, Vishnupur, Hyderabad, India.

UPCOMING EVENTS

- Industrial Exposure Visit under BIS Standards Club planned for SE ECS on 7th August 2026
- National Space day celebration planned for 23rd August 2026
- IEEE Computer Society India Symposium planned for 28th and 29th August 2026
- Student-Association Installation (ESCinc) planned for 26th September 2026
- IEEE PaperQuest 3.0 for 10th October 2026
- Robocom Inaugural and Workshop on the Bots, planned for 31st Oct for Robocom students
- Poster design Competition (BIS Club) planned on 14th November 2026

COMMUNITY OUTREACH

Vidnyan Dhara 2026 - Revolutionizing Healthcare through Nanoscale Innovations

As part of Vidnyan Dhara 2026, an initiative by the Goa State Higher Education Council and the Directorate of Higher Education, Government of Goa, Mrs. Anisha Cotta conducted expert sessions for school students in celebration of National Science Day.

The sessions were held at Mount Mary's High School, Chinchinim and Mae Dos Pobres High School, Nuvem. She spoke on "Revolutionizing Healthcare through Nanoscale Innovations," and introduced students to the fascinating world of nanotechnology and its transformative impact on modern medicine.



During the session, she explained how nanoscale materials and devices are being used to improve diagnostics, enable targeted drug delivery, enhance imaging techniques, and develop advanced treatment methods. She highlighted how nanotechnology allows medicines to act precisely at the site of disease, reducing side effects and improving patient outcomes. Real-world examples and simple demonstrations helped students understand complex scientific concepts in an engaging manner.

The interactive session encouraged students to ask questions, explore emerging scientific fields, and consider careers in science and research. The initiative successfully fostered scientific curiosity and awareness among young learners, aligning with the spirit of National Science Day and promoting innovation-driven education in Goa. The program was well received by students and faculty, making it a meaningful contribution to spreading scientific knowledge and inspiring future innovators.



Vidnyan Dhara 2026 - Smart Cities and IoT and Satellites and Space Technology

As part of Vidnyan Dhara 2026, an initiative by the Goa State Higher Education Council and Directorate of Higher Education, Government of Goa, Dr. Mohini Naik was invited as a Resource Person to conduct expert sessions for school students in connection with the National Science Day celebrations.

Dr. Mohini Naik conducted the first session on 19th January 2026 at Government High School, Xeldem on the topic “*Smart Cities and IoT: The Future of Connected Living.*” The session introduced students to the concept of smart cities and explained how Internet of Things (IoT) technology is transforming modern lifestyles. Various real-life applications such as smart homes, traffic management systems, environmental monitoring, and healthcare technologies were discussed. The session helped students understand how connected devices work together to improve efficiency and sustainability in urban living. The students actively participated and showed enthusiasm during the interactive discussion and question-answer session.



The second and third sessions were conducted on 20th January 2026 at Guardian Angel High School, Curchorem, and 21st January 2026 at Smt. Chandrabhaga Tukoba Naik Higher Secondary School, Curchorem, on the topic “*Satellites and Space Technology: Connecting the World from Above.*” During these sessions, students were introduced to the basic concepts of satellites, their types, and their importance in communication, weather forecasting, navigation, disaster management, and scientific research. The sessions highlighted India’s achievements in space technology through major ISRO missions such as Chandrayaan, Mangalyaan, and Aditya-L1, and also discussed the role of the International Space Station (ISS) in supporting global scientific experiments and space research.

Vidnyan Dhara 2026 - "The Zero-Risk Lab: Electronics Simulation with Tinkercad"

As a part of 'Vidnyan Dhara' – a Mega Science Series Programme organized by the Directorate of Higher Education, Government of Goa, Prof. Yeshudas Muttu conducted a series of sessions titled "The Zero-Risk Lab: Electronics Simulation with Tinkercad." The sessions aimed to introduce school students to the concept of electronics circuit design and simulation using modern digital tools. The sessions were conducted at the following institutions:

1. Jawahar Navodaya Vidyalaya, Valpoi, North Goa – 5th February 2026



2. Government High School, Guleli Sattari – 6th February 2026



3. Government High School, Morlem – 10th February 2026

4. Shree Bhumika High School, Parye, Post Sanquelim, Sattari – 11th February 2026



Vidnyan Dhara 2026 - "The Evolution of Communication Systems – From Telegraphs to 6G"

As part of the Vidnyan Dhara 2026 – National Science Day Mega Science Series, organized by the Goa State Higher Education Council and the Directorate of Higher Education, Government of Goa, Mr. Deron Rodrigues was invited as an Expert Speaker to deliver two sessions for school students on communication technologies.

The first session titled "The Evolution of Communication Systems – From Telegraphs to 6G" was conducted on 29 January 2026 at Murgaoon High School, Sada, Murmugao at 10.30am. The session traced the development of communication technologies from early telegraph systems to modern wireless networks, highlighting the progression from 1G to 5G and introducing the concept of 6G.



The second session titled "Recent Trends in 6G Communications – The Future of Intelligent Connectivity" was held on 5 February 2026 at Camilo Pereira Memorial Government High School, Baina, Vasco at 10.30am. This talk focused on emerging technologies in next-generation communication systems, including artificial intelligence in networks, Internet of Things (IoT), and intelligent connectivity.



Both sessions were interactive and generated keen interest among students, helping them understand the rapid evolution of communication technologies and their future possibilities.

Vidnyan Dhara 2026 - "AI Explorers: Shaping Tomorrow's Technology"

Under VIDNYAN DHARA 2026 – A Mega Science Series organized by the Goa State Higher Education Council and the Directorate of Higher Education, Government of Goa, expert sessions were conducted on 29th January 2026 at Our Lady of Succor High School, Nagoa, Verna, and at St. Pius X High School, Orlim, Goa, on 17th February 2026. The sessions were delivered by Dr. Vidhya D. S., Associate Professor in the Department of Electronics and Computer Science at Don Bosco College of Engineering, Goa. The topic of the session was "AI Explorers: Shaping Tomorrow's Technology." The program was organized for students of the 8th, 9th, and 10th standards.



The sessions introduced students to the basic concepts of Artificial Intelligence (AI) and its importance in modern technology. Students learned how AI enables machines to analyze data, recognize patterns, and make intelligent decisions. Various real-life applications such as smart assistants, recommendation systems, robotics, self-driving cars, healthcare diagnosis, facial recognition, and language translation were discussed to help students understand how AI is used in different fields. These examples helped students clearly understand the practical impact of AI in everyday life. The session also highlighted how AI can support sustainable development through applications such as smart energy management, precision agriculture, environmental monitoring, and efficient waste management. These examples helped students clearly understand the practical and sustainable impact of AI in everyday life.

Robotics Workshop for School Students at Mahatma Gandhi Centenary School, Bandora, Goa

The Robotics club of DBCE (ROBOCOM), under the guidance of Prof. Flavia Leitao, successfully conducted a Robotics workshop for the students of Classes VIII, IX, and X at Mahatma Gandhi Centenary School, Bandora, Goa, on 18th March 2026, as part of their summer camp initiative. The session aimed at introducing young minds to the fundamentals of robotics and creating awareness about its real-world applications in an engaging and interactive manner. The workshop was conducted in collaboration with Junior Chamber International (JCI) Ponda.



The workshop began with a brief introduction to robotics, where students were familiarized with the concept, its significance, and its growing role in today's technological world. A major highlight of the workshop was the explanation of Line Follower Robots (LFR). It successfully introduced the students to the basics of robotics while inspiring them to explore further in the field of science and technology.



Hands-on Session on Arduino - Mount Litera Zee School

A workshop and hands-on session on Arduino was conducted at Mount Litera Zee School, Vasco, on the occasion of Community Day Celebration at the Atal Tinkering Lab on 29th April 2026. The session was conducted and delivered by Dr. Mohini Naik, Assistant Professor, Department of Electronics and Communication Science, Don Bosco College of Engineering, Goa, and Regional Mentor of Change (RMoC), Goa Region, NITI Aayog.



The workshop was structured into three key segments:

- Introduction to Arduino: Overview of Arduino boards, components, and basic embedded system concepts.
- Programming Concepts: Basic coding structure, syntax, and logic used in Arduino programming.
- Interfacing and Hardware Setup: Practical understanding of circuit connections and component interfacing.

During the hands-on session, participants worked on small projects, including LED interfacing, where they learned to control hardware using code. The interactive approach enabled students to gain real-time implementation experience and sparked interest in innovation and prototyping. The session was coordinated by Ms. Swati Deshpande, ATL In-charge, who facilitated the arrangements and ensured smooth execution from the school's side. The session provided strong foundational knowledge and practical exposure to Arduino, motivating students to further explore electronics, embedded systems, and IoT.

