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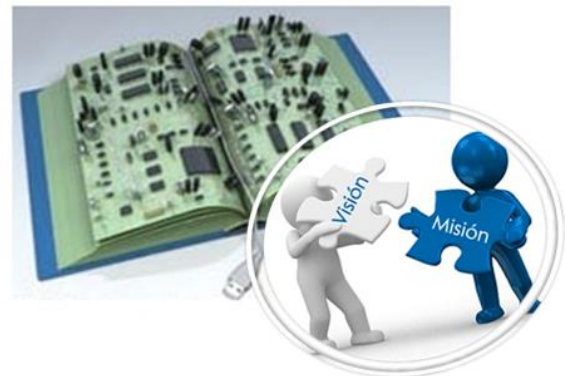- ➤ **Faculty Initiatives**
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VISION

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

MISSION

- To impart education abreast with the fundamentals and advances in technology and transform students into globally accepted professionals
- To foster networking with all stakeholders for promoting technical innovation, research and entrepreneurship
- To encourage various skill enhancing activities and extra-curricular activities to instill high levels of work ethics and responsibility for a better society

DEPARTMENTAL DETAILS

The Department offers Bachelors of Electronics & Telecommunication Engineering programme, with total number of 60 seats in the 1st year and 12 seats for lateral entry into the second year. The Department has well qualified and experienced faculty in the areas of Electronics & Communication, VLSI, Embedded, Signal Processing, Automation and Control Engineering.

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.

- Signal Processing Laboratory
- EDA tools Laboratory
- e-Yantra Robotics Lab

➢ LABORATORIES
- Basic Electronics Engineering Laboratory
- Microwave Engineering Laboratory
- Analog Electronics Laboratory
- Digital Electronics and Instrumentation Laboratory
- Communication Engineering Laboratory
- Embedded system laboratory supported by Cypress
- Project laboratory
- Control and automation Laboratory

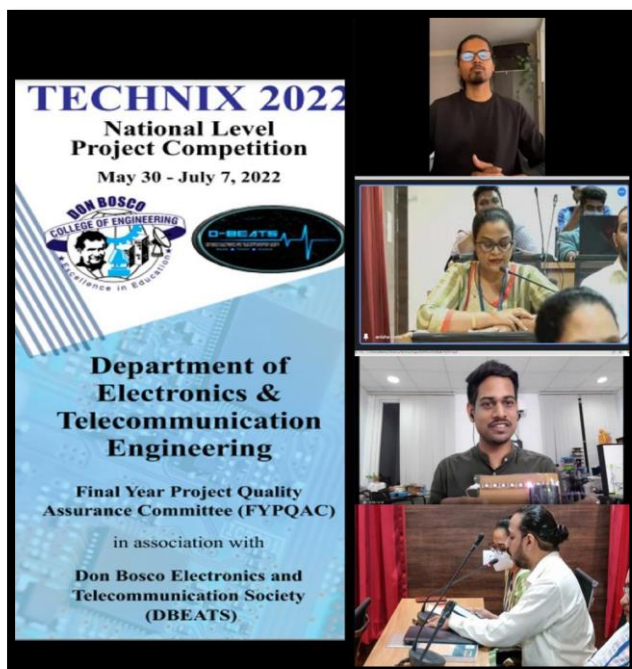| SOFTWARES	KITS
MATLAB	8051 kits
Xilinx 14 Version	ARM kits
OSCAD	PIC kits
MAGIC	PLC kits
LabVIEW	LAN Trainer kits
OCTAVE	OFC Kits
POlSARPro	PSoC ARM Cortex Kits

STUDENT'S CORNER

Workshops/Seminars/In-house Trainings/ Competitions

National Level Project Competition –TECHNIX 2022

The Final Year Project Quality Assurance Committee, Department of Electronics & Telecommunication Engineering in association with Don Bosco Electronics and Telecommunication Society (DBEATS) organized Technix 2022 from May 30 to July 7, 2022. Technix is a project competition that has been organized by the ETC Department since 2016 with the primary aim to encourage budding engineers to exhibit their novel ideas and innovative projects. Our esteemed jury for Technix 2022 were Mr. Myron Rodrigues; Robotics Engineer at Street Drone Ltd, Oxford – U.K. and Mr. Sujay Shirodkar- Co-founder of Carbon-E.

The event commenced in the month of May with the submissions of abstract proposals which went on till June 7, 2022. More than 45 groups from all over India registered for the event. The project competition had 2 categories: the Hardware category and software category. The competition saw entries from varied domains like Robotics, Embedded Systems, Signal Processing, Machine Learning, Artificial Intelligence, Biomedical Engineering, Communication Engineering etc.

The valedictory function of Technix 2022 was held on July 7, 2022. The dignitaries present were Director-DBCE, Rev Fr.Kinley D'cruz; Principal-DBCE, Dr. Neena Panandikar; Registar- Dr. Kala Nayak, HOD of ETC Department and Convener of Technix, Dr. Varsha Turkar.

The event commenced with the welcome address by Rev. Fr. Kinley D'Cruz. In his address he motivated the students to innovate and congratulated all the winners and participants. Later, the Principal, Dr. Neena Panandikar addressed the gathering and appreciated the efforts put in by the students, coordinators and judges. She said "Winning is secondary, Let not your ideas die off".

The Coordinator of Technix, Prof. Anisha Cotta presented the report of Technix 2022 and acknowledged the support, motivation and guidance received to make Technix 2022 a success. The judges were introduced by Prof. Michelle Araujo and Prof. Deron Rodrigues. Mr. Myron Rodrigues in his address said "It is good practice to participate in competitions as it helps us know the limitations of our own projects".

Mr. Sujay Shirodkar advised students to pay more attention to the project presentation as it helps attract attention. Later, top 5 projects were presented from hardware and software category.

The winners were announced by Director Rev. Fr. Kinley D'Cruz, Principal Dr. Neena Panandikar and HOD ETC Dept Dr. Varsha Turkar. First Place Winners in Software Category were Ms. Bhargava V Desai, Ms. Anusha S, Ms. Deeksha P Rao and Mr. Yadunand G Kamath for the project "Physical Layer Encryption for Wireless communication systems" from RNS Institute of Technology, Bengaluru Karnataka. In the Hardware Category the first place was bagged by Mr. Siddharudh Amale, Mr. Suyash Degaonkar, Mr. Vinayak Annaldas, Ms. Niharika Davewala and Ms. Dhanashri Kandale for the project "Smart Learning Device" from Walchand Institute of Technology, Solapur.

Second place winners in Software category were Ms. Saili Naik, Ms. Jaitali Kunkalkar and Ms. Priya Kamat for their project "Augmented Reality in Engineering Graphics" from Don Bosco College of Engineering, Fatorda Goa. In the Hardware Category Ms. Vaishnavi Pareek, Ms. Soniya Kumble, Mr. Mrunal Patil, Ms. Apeksha Huddar and Ms. Tanjeela Kudchikar from Sharad Institute of Technology College of Engineering, Yadav Ichalkaranji won second place for their project "Self Sustained e-Toilet System Using IoT With Sewage Water Treatment Plant".

The event was concluded with the Vote of thanks by the Technix Coordinator Prof. Melba D' Souza. The event was coordinated by Prof. Anisha Cotta and Prof. Melba D' Souza.

IEEE Bombay Section Student Branch Meet Up -Goa Region

The IEEE Student Branch of Don Bosco College Of Engineering Fatorda, Goa organized a IEEE Bombay Section Student Branch Meet Up on 26th August 2022 from 11.00 am to 3.00 pm. Six Colleges under the IEEE Bombay Section participated in this event. The main purpose of the meet was to discuss the activities undertaken by different student branches under IEEE Bombay Section and to collaborate with the other student's branches for keeping events under IEEE Bombay Section.

The Director, Rev. Fr. Kinley D'Cruz welcomed all the dignitaries and the participants at the host institute. Dr. Sarika Chouhan, SAC Chair, IEEE Bombay Section gave an Overview of IEEE Bombay Section and Students Activities Committee. Mr. Devendra Gowda, SAC Secretary, IEEE Bombay Section inspired the students by enlisting the various benefits of becoming an IEEE member. Both conventional and rarely known benefits were discussed .

Dr. Vinit Kotak, SAC Advisor, IEEE Bombay Section gave us tips on how to attract and retain Student members. Dr. Satyanarayana Bheesette, Chair, IEEE Bombay Section and Dr. Kavita Sonawane, SAC Vice-Chair, IEEE Bombay Section highlighted the importance on why and how an Institution with SB must organize an IEEE Conference and how to engage with Students and Student Activities in Student Branch. Mr. Karthik Iyer, SSR, IEEE Bombay Section gave us insights on IEEE Volunteer Tools.

The Event was very informative which benefited many students and faculty members. The program came to an end with questionnaire and Networking session where students interacted with other college students followed by Vote of Thanks proposed by IEEE Student Branch Counselor, Prof. Yeshudas Muttu.

The host of the event was Ms. Karen Mendes, IEEE DBCE SB Member. The event was coordinated by Dr. Varsha Turkar and Prof. Yeshudas Muttu.

IEEE TPAC EVENT – National Level Coding Competition 2.0

IEEE Bombay Section Technical & Professional Activities Committee (TPAC) in association with IEEE DBCE – Goa, IEEE SAKEC and IEEE APSIT student Branches organized a National Level Coding Competition 2.0 hosted on CodeChef platform on 15 October 2022. The industry oriented problem statements were taken from CodeChef team and framed by the organizing team. The competition received an overwhelming response of about 160+ participants from various institutes across the Nation.

The winners of the competition are as follows: Senior Category:

- 1st Place: Mr. Aditya Shah (Shah & Anchor Kutchhi Engg College, Chembur, Mumbai)
- 2nd Place: Mr. Rahul Kumarpal Bhandari (DKTE Society's Textile & Engineering Institute)
- 3rd Place: Mr. Dhiraj Shetty (Shah & Anchor Kutchhi Engg College, Chembur, Mumbai)

Junior Category:

- 1st Place: Mr. Kunjan Nayan Panchal (Kokilaben Dhirubhai Ambani Reliance Foundation School)
- 2nd Place: Mr. Francisco Ferrao (Don Bosco Higher Secondary School, Panjim, Goa)

The winners of this competition will be awarded cash prizes from IEEE Bombay Section. The competition was coordinated by Vice-Chair of IEEE Bombay Section TPAC, Prof. Yeshudas Muttu.

The student branch representatives for the same were Mr. Jeremy Gilbert – IEEE DBCE SB, Mr. Arpit Dharod – IEEE SAKEC SB and Mr. Rakshit Shah – IEEE APSIT SB.

National Level Project Idea Competition – ThinkTech 2k22

ThinkTech 2k22- a National Level Project Idea competition was organized by the Final Year Project Quality Assurance Committee, Department of Electronics & Computer Science Engineering, Don Bosco College of Engineering, in association with Don Bosco Electronics and Telecommunication Society (DBEATS). This competition was organised with an objective to encourage students to exhibit their innovative ideas and showcase their technical skills not just in the state of Goa but all over the nation. The esteemed jury for the competition were Mr. Yadnesh Sanzgiri - Subject Matter Expert (Industry 4.0 solutions), Antares Vision India Pvt Ltd. And Mr. Rohan Prabhu - Klenzaids Contamination Controls, Senior Automation Engineer

ThinkTech -2k22 commenced in the month of September with the submissions of abstract proposals which went on till October 10, 2022. It received an overwhelming response of more than 50 entries. Some of the themes floated were Intelligent Systems, E- Learning, Energy Harvesting, Urbanization and Rural Development, Healthcare, Virtual Communities, Environmental Monitoring, Disaster Management and e- Business Technologies. The final round of the competition and prize distribution was held on October 22, 2022. 15 groups were shortlisted to present their ideas in hybrid mode. The competition commenced at 11.00 a.m and was successfully held with the participants presenting their ideas online as well as offline.

The event concluded with the prize distribution and valedictory function which was held at 4.30 p.m. The dignitaries present were, the judges for ThinkTech 2k22 – Mr. Yadnesh Sanzgiri and Mr. Rohan Prabhu, Rev Fr.Kinley D'cruz- Director,DBCE , Dr. Neena Panandikar – Principal-DBCE, Dr. Kala Nayak-Registrar and HOD of Science and Humanities Department-DBCE. The Coordinator of ThinkTech 2k22, Prof. Anisha Cotta presented the report of ThinkTech 2k22 and acknowledged the support, motivation and guidance received to make the event a success. DBEATS coordinators Mrs. Michelle Araujo e Viegas and Mr. Deron Rodrigues introduced the judges to the audience. The Judges then shared their experience in judging the event and gave their valuable inputs to the participants. The winners were declared by the HOD and Convener of the event, Dr. Varsha Turkar.

The first place was bagged by Sahil Chitrapur, Keenan Cardozo from the Department of Mechanical Engineering of Don Bosco College of Engineering for their project idea titled "Design and Development of Oxygen Concentrator". Students from Padre Conceição College Of Engineering, Shubham Bhalerao, Sarvesh Lad, Ryan Fernandes, Silvio Boadita bagged the second place for their idea "Portable Power Bank for EV". The third place was bagged by Leym Ajay.S from Vels Institute of Science Technology and Advanced Studies, Chennai for the idea titled "Dermascopic Disease Prediction". The faculty coordinators of the event were Mrs. Anisha Cotta and Mrs. Melba D'Souza.
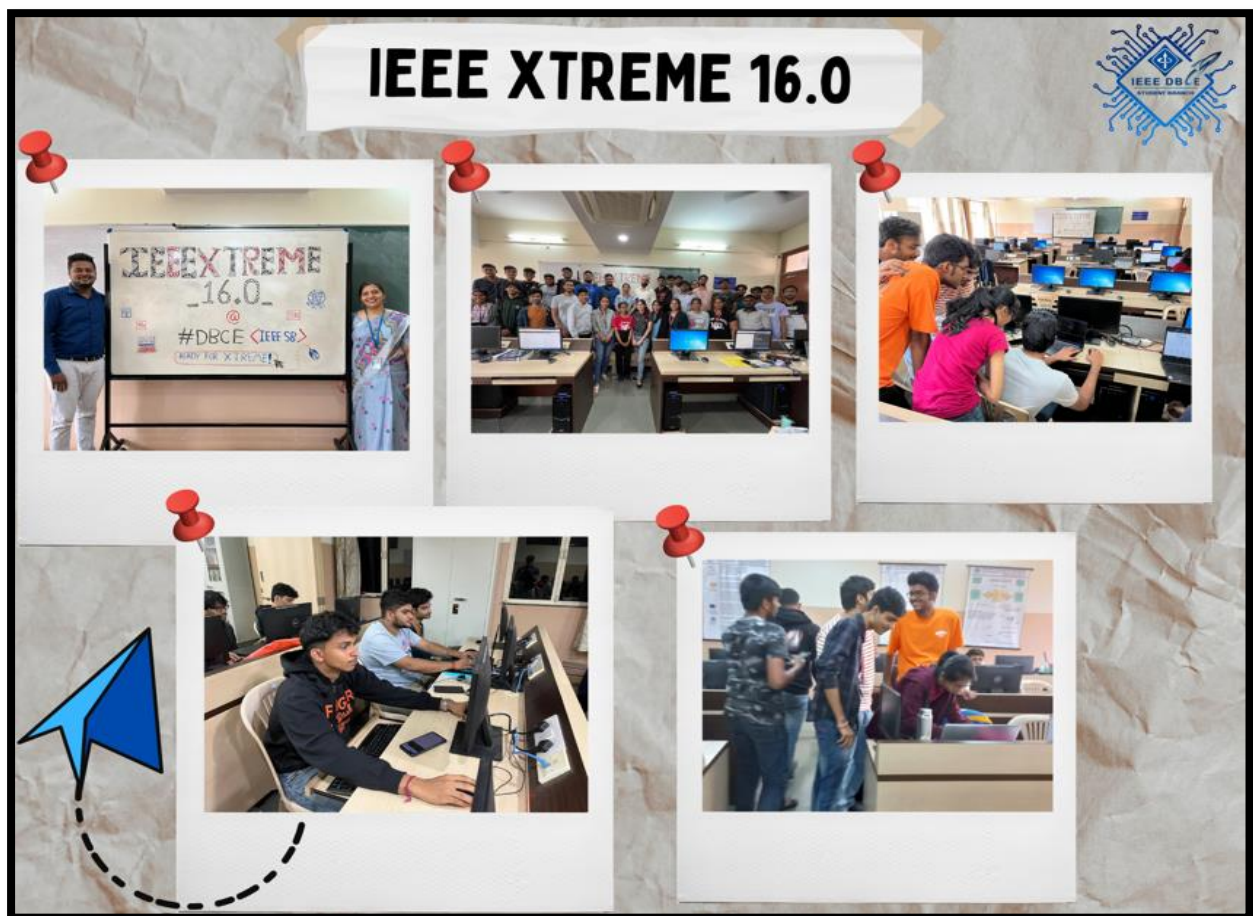
The IEEE Xtreme 16.0

The IEEE Student Branch of DBCE, Goa hosted the 24 hours coding competition-IEEE Xtreme 16.0 from 22 October 2021(5:30 am) to 23 October 2021(5:30am), which was proctored and well organized by the IEEE Student Branch counsellor Prof. Yeshudas Muttu and technically assisted by Mr Ignatius Dias.

IEEEXtreme 16.0 is a 24-hour World-wide online coding competition where various universities and colleges, of this esteemed community, which is IEEE, go on head-to-head in a friendly yet compelling and invigorating competition. The event was organised by CS Academy giving the participants a dynamic view of coding. To inculcate problem solving skills, the IEEE student members were encouraged to participate in this global challenge of 24-hour's time span.
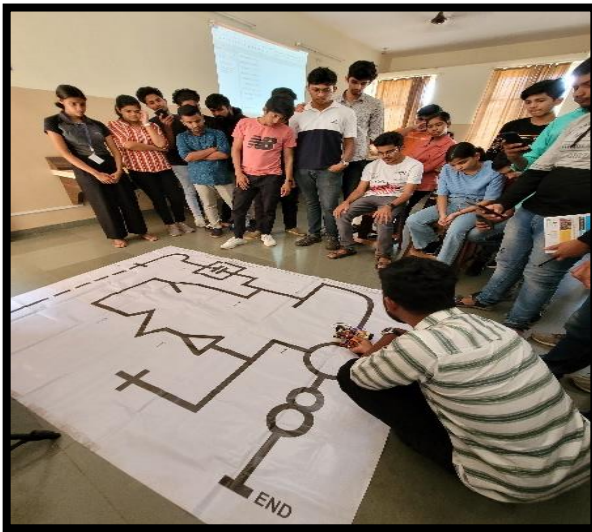

The total of 12946 coders participated all around the world, of which Don Bosco College of engineering had 12 teams, with 3 members each. The participants were challenged with a new problem statement every hour with 25 challenge-studded problem statements in total based on different concepts like arrays, graphs & trees, data structures, routing algorithms, image processing with memory and run time constraints. It was also a very testing experience as the students had to sustain themselves for 24 hours as they kept tugging away which proved to be an amazing coding and social experience. The competition ended on 23 October 2022(5:30 am).

Hands-on Workshop on - "Robotics"

The e-Yantra Robotics Faculty Team of Electronics & Computer Science Department- ECS (formerly known as Electronics & Telecommunication Department- ETC) of DBCE organized a Workshop on Robotics for the Robotics Team on 26th of November 2022. The purpose of the Workshop was to spread education in Robotics, so as to help students to participate for Technical Events and Competitions related to Robotics

The resource persons for the workshop were Mr. Gilferd Gonsalves, Mr. Maynard Gomes and Ms. Simmi Mhapsekar. The workshop was conducted in the Embedded Systems Lab and saw the participation of 22 students from FE ECS and SE and TE ETC.

The workshop began with a formal introduction of the resource persons. Prof. Flavia Leitao explained the importance and purpose of the workshop which was to develop Bots and be able to compete in Robotics competitions and the expertise that they are expected to develop through this training. Prof. Deron Rodrigues spoke about the teamwork and coordination which is very important for successful completion of the given task. Later Prof. Yeshudas Muttu spoke about the time management and commitment required in order to perform well in their tasks.

Thereafter, all the participants introduced themselves briefly and also expressed their views about Robotics. The resource person then began with the Introduction to Robotics which covered the basic concepts about Robotics. Participants were explained the building block of the robots and the general working of it. The different types of Robots used in Robotics competitions in various Technical colleges were explained along with relevant design diagrams.

The main topic for the day was building a Line Follower Robot. After explaining the concept of working of the Line Follower Robot along, it's operation was also demonstrated to the students, where all the students saw and learnt how the Robot actually works. Details about the components used were explained along with their functions. After the live demonstration

of the Line Follower Bot, the working to the Microcontroller (Arduino Uno), motors, motor drivers, sensors and the codes of the Arduino IDE software were also explained.

Thereafter four teams were made and a Team Leader for each team was appointed. The Participants were told to discuss their common free slots so that they could meet further in groups and carry on their study and work. They were asked to get familiar on Arduino Uno and a YouTube playlist defining some basic tasks was given to them to get started.

The students were extremely fortunate enough to be visited by Mr Myron and Mr Sujay, Alumni and Ex-Robotics Club members who happened to visit college the same day. The two shared their experience of working in Robotics, participating in different competitions and the students had a great time interacting with them.

The coordinators of this workshop and initiative were Prof. Flavia Leitao, Prof. Yeshudas Muttu and Prof. Deron Rodrigues.

Finishing School

The Electronics and Computer Science Department (formerly known as Electronics and Telecommunication Department), of Don Bosco College of Engineering, Fatorda, conducted a Finishing School, in association with Autotech Technologies on Industrial Automation Training. It was an 18 day course, which went on from 14th September to 12th October 2022, 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 Sanjita Nadkarni, Project in-charge and Trainer of Autotech Technologies.

The course started on 14th September with a brief Inaugural, where the resource persons were introduced and a short outline of the contents to be covered in the course was discussed. The different brands to be 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. Later students were shown to program a VFD by putting different VFD parameters. Reverse and forward motion of the motor was shown using the VFD. The other important concepts which were covered in the VFD module were Braking, multistep speed command, relay triggering, external input wiring, sensor wiring, and Load connection.

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 with different Industrial examples. The topics covered in PLC were Basic gates (AND, OR, XOR), One Shot Rising, Latching, Interlocking, Binary bit concept, Up counter, down counter, ON and

OFF delay timer, and some basic and advance programs with Industrial examples. 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 keypad HMI and different communication ports of HMI to communicate with PLC. The concepts covered here were Page generation, Tag generation and Downloading pages from PC to PLC. Lastly communication between the PLC and HMI was taken up. This included turning ON a PLC output via HMI keys. Variable Numeric input values were gives to PLC's timer and counter using HMI. Value Display Concept was also shown wherein they could display Timer and Counter values.

Towards the end of the course, Students visited Autotech Technologies Lab based in Sanquelim wherein they were shown Conveyor belt and some other Industrial equipments. They were shown to run the Conveyor motor directly using PLC output. The students got a feel of the real time application of PLC, VFD and HMI during their visit to the Industry. The entire program was coordinated by Prof. Flavia Leitao, under the guidance of the HOD Dr. Varsha Turkar.

EXPERT TALKS

Tech Talks 2022- Edging towards a connected future

The Institute Industry Cell (IIC) of Don Bosco college of Engineering , Fatorda, organized Tech Talks 2022 - Edging towards a connected future, on the 9th and 10th September 2022.

The Institute Industry Cell was established in the year 2017, as continuous interaction between academia and industry is the need of the hour. It provides a platform for both the students as well as faculty members to be aware of industry expectations of the skill sets required for students

TechTalks is an initiative where we examine the latest trends in technology and how they affect the way we live and the problems they solve. Technology enables the development of new products and services that uses less energy, chemicals and water and reduces waste from operations — all of which can improve both environmental sustainability and operational efficiency at the same time. This is exactly what our first speaker, Mr. Anish Souza, Founder and CEO of Sun 360, addressed in his lecture "Solar Energy- Technology for sustainable growth".

Mr. Anish Souza, addressed the importance of renewable energy sources, in an era where fossil fuels are fast depleting. He started off by giving the students a background of the origin of Solar Energy. He explained the various methods of Solar Energy set-ups in residential and commercial areas. He elaborated the Grid and the Hybrid model of Solar Energy Installation, by using project undertaken by Sun 360 as a reference. The pros and cons of each method were also detailed out. He wound up by touching upon the latest trends and advancements in Solar Cells.

Technology is basically a systematic way of doing things or solving problems for the good of mankind. Our next speaker, Mr. Sachin Talwadker, Associate Consultant, Tata Consultancy Services (TCS), chose a wonderful topic "Soldering Technology"- a technology that binds all electronics together. Mr. Sachin Talwadker, spoke about the different Soldering Techniques which included Reflow Soldering, Wave Soldering and Flex Soldering. He detailed on the different regions of the soldering profile which included the Pre-heat, Soak, Peak and Cooling. He imparted knowledge on how to use the Solder Iron practically. He concluded with the RoHS (Restriction of Hazardous Substances) Compliance and explained its importance.

The students thoroughly enjoyed both the sessions, interacting with the Resource Persons. The sessions helped students to update themselves with the latest trends in technology. The event was coordinated by Prof. Flavia Leitao and Prof. Samantha Cardoso, under the guidance of the Head of ETC department Dr. Varsha Turkar.

IEEE DAY 2022

The IEEE Student Branch of Don Bosco College of Engineering celebrated IEEE Day on 22nd October 2022. The IEEE SB Counselor, Prof. Yeshudas Muttu briefed the audience about IEEE Day, its importance and various takeaways. He mentioned about IEEE Jobsite, Careers at IEEE and various volunteering opportunities & commitments with respect to IEEE Humanitarian movements. Later, the IEEE EXECOM members were appreciated for their leadership skills and badges were handed over by IEEE Adviser, Dr. Varsha Turkar. Ms. Anjima Rajesh, IEEE DBCE Vice-chair shared the benefits she experience throughout her IEEE journey.

The celebration continued with a networking activity conducted by Mr. Benson Fernandes & Mr. Clarence Dias. The IEEE Day programme progressed with the cake – cutting ceremony. The audience were later engaged with a virtual treasure hunt, well planned by IEEE Student members, Ms. Gauravi Kamat & Mr. Aryan Kotru. To conclude the entire event, there was a prize distribution ceremony and Ms. Britney Mascarenhas, IEEE WIE DBCE Chair proposed the vote of thanks. The overall event was coordinated by IEEE Student members, Mr. Benson Fernandes & Mr. Clarence Dias and hosted by Mr. Nupoor Sirsat.

STUDENT'S ACHIEVEMENTS & FELICITATION

- Ms. Sachi Bokade has participated in the event Kumite in above 18 years category (55kg) and secured Gold medal on GOA LIBERATION OPEN KARATE KUMITE CHAMPIONSHIP 2022 organized by World Traditional Budo Karate-Do-Federation India, held on MANOHAR PARRIKAR INDOOR STADIUM HALL, NAVELIM, MARGAO-GOA on 17th and 18th December 2022.
- Ms. Sachi Bokade has participated in the event Concrete Canvas (Cube Painting) and secured 2nd Place for Sankriti 2022 at Don Bosco College of Engineering, Fatorda on 20th and 21st October 2022.
- Mr. Saish Fondekar Ulhas, participated and secured the 2nd place (DBCE -Runners up) in the Inter-collegiate chess championship organized by Dnyanprassarak Mandal's College and Research Centre, Assagao, SV'S Sridora Caculo College of Commerce and Management studies, Khorlim, Mapusa in collaboration with Bardez Taluka Chess Association under the Aegis of ACDOPEG and Goa Chess Adhoc Committee held on 18th and 19th May 2022 at Anand Keni Hall, Khorlim, Bardez-Goa.
- Mr. Saish Ulhas Fondekar, participated and secured the 2nd place (DBCE -Runners up) in the Inter-collegiate chess championship organized by Dnyanprassarak Mandal's College and Research Centre, Assagao, SV'S Sridora Caculo College of Commerce and Management studies, Khorlim, Mapusa in collaboration with Bardez Taluka Chess Association under the Aegis of ACDOPEG and Goa Chess Adhoc Committee held on 18th and 19th May 2022 at Anand Keni Hall, Khorlim, Bardez-Goa.
- Mr. Saish Ulhas Fondekar, participated in All Goa State Chess Championship for Senior State Championship category held at DSYA Sports Complex Quepem from 01-12-2022 to 04-12-2022 and secured 6.5 points out of 8 and was placed ninth among 72 participants. He got selected for the senior nationals which was held in Delhi. There he increased 41 ELO (Rating) points and came 163rd out of 200 participants.
- Mr. Saish Ulhas Fondekar bagged 4th place under 1201-1400 rating category in all India fide open rapid rating Chess tournament.
- NSS volunteers from TE ETC, Mr. Shankar Suman and Ms. Melissa Alexander Solomon were selected to attend the NSS Adventure Camp 2022-23, Atal Bihari Vijpayee Insatitute of Mountaineering & Allied Sports (ABVIMAS),which was held at Kangra, Himachal Pradesh from 20th Nov to 29th Nov 2022.
- Mr. Daron Abner Pereira and Mr.Sayed abul fazal, received Elite+Silver Nptel certificate for, "The Joy of Computing using Python"
- Ms. Simmi Vinay Mhapsekar, received Elite+Silver(Topper of 2%) Nptel certificate for, "Soft Skills For Business Negotiations And Marketing Strategies"
- Ms. Anrea Peixoto, received Elite+Gold (Topper of 1%) Nptel certificate for, "Soft Skills For Business Negotiations And Marketing Strategies"
- Ms. Karen Mitzi Mendes and Mr. Eshan lotlikar, received Elite+Silver Nptel certificate for, "Managerial Skills for Interpersial Dynamics"
- Ms. Preksha Pravin Karpe, received Elite+Silver Nptel certificate for, "Body language: Key to professional Success"
- Ms Jemimah Gonsalves, received Elite+Silver Nptel certificate for, "Foundations of R Software"
- Ms Diana Joaquina estibeiro, received Elite+Silver (Topper of 1%)Nptel certificate for, "Customer Relationship Management"
- Ms Clarence Sebastiao Dias, received Elite+Silver (Topper of 2%)Nptel certificate for, "Customer Relationship Management"

- Mr. Eshan lotlikar, received Nptel_Believers Star certificate for successfully completing Nptel courses
- Ms. Preksha Pravin Karpe and Ms Rashee Tushar Gude, received Nptel_Motivated_Learners Star certificate for successfully completing Nptel courses.
- Mr.Sayed abul fazal, received Nptel_Enthusiasts and Nptel_Discipline_Star certificate for successfully completing Nptel courses
- Mr. Jeremy Josh Gilbert, received Nptel_Discipline_Star certificate for successfully completing Nptel courses
- Mr. Clarence Dias won the second place at All Goa Badminton Doubles tournament organised by Yuva.
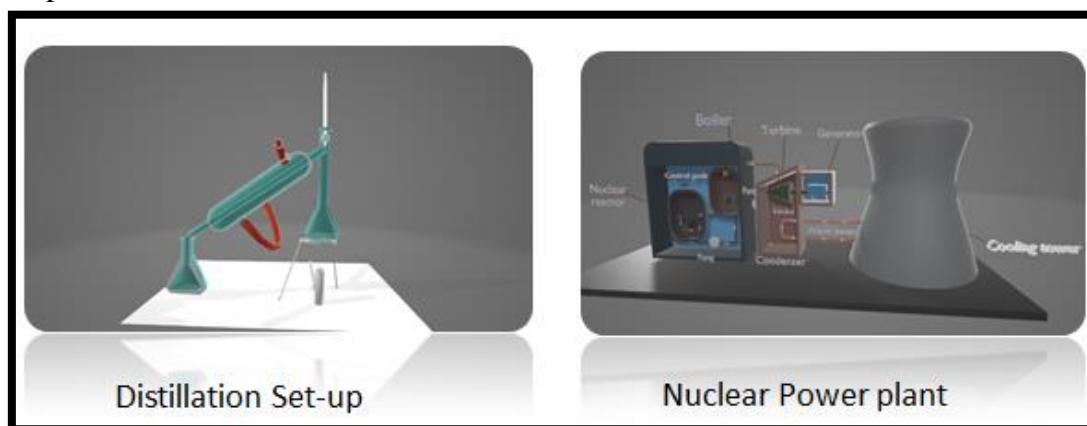

TRAINING AND PLACEMENTS

Placements

- Mr. Devendra Hundre, Ms. Poonam Gaonkar and Ms. Myola Dias, in IFB
- Mr. Janardhan Velip, Mr. Saish Mandrekar, Mr. Deepak Gouli and Ms. Harshada Gawas, in Rosenberger Interconnect India Pvt Ltd
- Mr. Ashutosh Chawhan, in Powerland
- Ms. Amreen Shaikh, in HotelHub
- Mr. Utkarsh Bokade and Mr. Willy Rodrigues, in Kilowott
- Ms. Neha Nayak, in Pentair
- Ms. Dwena De Melo, in Siemens
- Mr. Sayed Abul Fazal, in OneShield Software
- Ms. Anrea Peixoto, in TCS

AR VR Internship – Eduvance

Eduvance and Don Bosco College of Engineering have signed an MoU, one of the objectives being to provide internships to students. Hence an internship program was offered to students that commenced from 23rd May 2022 up to 31st July 2022.

The internship tasks that were given to students comprised of scientific models, of school curriculum, to be built using AR and VR that would enable students to understand diverse processes in an effective manner. Some of the models that were created by the interns consisted of: Models to explain Newton's laws, atomic structures, distillation set-up, nuclear power plant, cell structures etc.

Distillation Set-up   Nuclear Power plant

A total of 33 students signed-up for the internship out of which 22 qualified for the next level and finally 16 students successfully completed the internship. Students were from first year and second year of ETC department. The students worked very hard to deliver their assignments well ahead of time. This complete activity was coordinated by Prof. Selvyn Fernandes.

Internship

The students of BE ETC (VIIth Sem) underwent a two month long internship in various companies in and around Goa. The internship commenced on 21st Aug 2022 till the 15th October 2022. 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 GSL, One Shield, IFB, Commscope, Circuit Vision, Mumbai Airport, NIT, Smartlink Holdings, Siemens, Mrinq, Kabira Mobility, Elin, Optel, Electrocontrols, Patharvat, LTI Pune, Syntegon, Siva Group, Tengentia, Tentwenty.

A total of 47 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 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

- Prof. Yeshudas Muttu was presented the National Award for Innovative Practices in Teaching Learning Evaluation (TLE) 2022
- Selected to pursue Part-Time Ph.D. programme in the Department of Electronics and Communication Engineering, National Institute of Technology (NIT), Goa.

- Prof. Deron Rodrigues got selected to pursue Part-Time Ph.D. programme in the Department of Electronics and Communication Engineering, National Institute of Technology (NIT), Goa.

- Dr. D. S. Vidhya received appreciation certificate from NPTEL IIT Madras for being active SPOC based on performance and participation of candidates for the July -Dec 2022 semester
- Gave a session on "Formal Verification :An over view " NDLI ,10th Sept 2022

- Prof. Melba D'Souza organized an Event "Interactive session with successful women" on 28th Nov 2022 under CIIIWN DBCE STUDENTS CHAPTER (Faculty coordinator of CIIIWN students chapter)
- Organized and Coordinated the event of MOU signing and Installation of CII IWN DBCE students chapter on 19th September 2022.

- Prof. Trima Fernandes e Fizardo organized sessions on "Formal Verification-An Overview", on 10th September 2022, and "Recent Trends in Immersive Technology", on 25th June 2022, under NDLI Club-DBCE.

- Prof. Samantha Cardoso organized "Talks 2022 - Edging towards a connected future", under the Institute Industry Cell.

- Prof. Flavia Leitao organized "Talks 2022 - Edging towards a connected future", under the Institute Industry Cell.
- Organized Finishing School, in association with Autotech Technologies on Industrial Automation Training.

- Prof. Selvyn Fernandes, gave a session on, "Lean Start-up & Minimum Viable Product/Business – Mentoring Session", on 21 September 2022, under Institute Innovation Council (IIC)

CONFERENCE PAPER/ JOURNAL PUBLICATIONS

- Prof. Selvyn Fernandes and Prof. Flavia Leitao, published a paper titled, "Augmented Reality in Engineering Graphics", International Journal of Research in Engineering and Science (IJRES), ISSN (Online): 2320-9364, ISSN (Print): 2320-9356, Volume 10 Issue10, October 2022.
- Prof. Michelle Lilian Araujo e Viegas and Prof. Samantha Cardoso, presented a paper titled "Smart Mirror" in International Conference on Advancement in Electronic Systems and Communication Technologies (ICAESCT-2022) on 04th & 5th November, 2022.
- Prof. Trima P. Fernandes e Fizardo and Prof, Anisha Cotta, published a paper titled, "Low Cost Portable Ventilator,", International Journal of Research in Science & Technology, Published in Vol: 13, Issue: 1, 14 Jan 2023.

WORKSHOPS/SEMINARS/EXPERT TALKS ATTENDED

- Prof. Flavia Leitao, Prof. Deron Rodrigues and Prof. Mathilda Colaco attended a NITTT Module 3 course on, "Communication Skills, Modes and Knowledge Dissemination", in July 2022.
- Dr. D.S Vidhya attended 40 Hour Online FDP on Artificial Intelligence (AI) enabled IOT for engineering Application ,organized by EICT Academy, NIT warangle and Francis Xavier Engineering College ,8th -19th Aug 2022
- Faculty members of ETC attended a session on. "Formal Verification-An Overview", on 10th September 2022, organized by the NDLI Club-DBCE.
- Prof. Deron Rodrigues, Prof. Melba D'Souza, Prof. Yeshudas Muttu and Prof. Mohini naik attended ISTE approved Online STTP Programme on "Quantum Computing" held during 5th January to 9th January, 2023 organized by Department of Electronics & Telecommunication Engineering, Agnel Charites' Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, Maharashtra.

WORKSHOPS/SEMINARS/EXPERT TALKS CONDUCTED

- Prof. Anisha Cotta and Prof. Melba D' Souza, in association with DBEATS organized, National Level Project Competition, "**Technix 2022**" from May 30 to July 7 2022
- Prof. Flavia Leitao and Prof. Samantha Cardoso, organized, "**Tech Talks 2022 - Edging towards a connected future**", on the 9th and 10th September 2022
- Prof. Flavia Leitao organized a Finishing School for 18 days, in association with Autotech Technologies on "**Industrial Automation Training- PLC, VFD and HMI**", from 14th September to 12th October 2022.
- Prof. Anisha Cotta and Prof. Melba D' Souza, organized, National Level Project Idea Competition, "**ThinkTech 2k22**" from September to October 22, 2022
- Vice-Chair of IEEE Bombay Section TPAC, Prof. Yeshudas Muttu, coordinated the "**National Level Coding Competition 2.0**", on 15 October 2022
- IEEE Student Branch counsellor Prof. Yeshudas Muttu, along with the IEEE Student Branch of DBCE, Goa hosted the 24 hours coding competition, "**IEEE Xtreme 16.0**", from 22 October 2021(5:30 am) to 23 October 2021(5:30am),
- Prof. Flavia Leitao, Prof. Deron Rodrigues and Prof. Yeshudas Muttu, organized a Workshop on "**Robotics**" on 26th of November 2022.

COMMUNITY OUTREACH

➢ IEEE Bombay Section STEM Programme 2.0, on 26th- 27th of August at Santa Cruz School, for the students of class 10.

The IEEE Student Branch under the leadership of IEEE Student Branch Counselor Prof. Yeshudas Muttu of Don Bosco College of Engineering, Fatorda organized a Workshop on the topic "Electrical and Electronics made Easy". The main goal of this workshop was to make the Students aware and to create an interest in the Electrical and Electronics domain.

➢ Workshop on "Electronics Simulation using TinkerCAD Circuits", on 13th December 2022.

As a part of the National Skills Qualification Framework (NSQF) through Goa Samagra Shiksha Abhiyan, 2nd Lt. J. J. Rane Government High School, Kudchire organized a workshop on "Electronics Simulation using TInkerCAD Circuits" in association with the IEEE Student branch of DBCE, Fatorda. The main objective of the workshop was to provide a way for students to design and simulate electronic circuits without the need for physical components. The workshop was organized by Prof. Yeshudas Muttu and Mr. Benson Fernandes.

UPCOMING EVENTS

- ➤ IEEE Educational Tour to Kerala in February 2023
- ➤ Workshop on Robotics (e-yantra) in February 2023
- ➤ Fried Trip for Students in March 2023
- ➤ HAM radio workshop in March 2023
- ➤ Workshop on Introduction to Crptography (D-BEATS) in March 2023
- ➤ IEEE Outreach Programme in March 2023
- ➤ Project Exhibition Technix 2023 in May 2023
- ➤ NDLI Club event in May 2023