



Connections

Quarterly Newsletter for Institute's Friends, Patrons, Mentors and Students

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NEWS IN GENERAL

Independence Day 2022

76th Independence Day of India was celebrated in the college premises on August 15, 2022. This event began in the presence of the Rector – Rev. Fr. Ralin De Souza, who hoisted the Indian National Flag. All the staff members of the College sang the National Anthem and showed their respect to the national flag and to the nation. Navin, Hitendra & Jayden, students from second year Computer Engineering sang a patriotic song which invoked a feeling of patriotism among all present for the event.



Director – Rev. Fr. Kinley D'Cruz, Administrator – Rev. Fr. Leo Periera, CEO FiIRE - D.S. Prashant, Registrar - Dr. Kala Nayak and Principal – Dr. Neena S. P. Panandikar were present for the function. Dr. Neena Panandikar welcomed the teaching as well as non-teaching staff. Chief Guest of the function Rev. Fr. Ralin De Souza was introduced by Miss. Nitya Pai, second year Computer Engineering student. Fr. Ralin De Souza addressed the whole gathering and wished all a very happy Independence Day. In his speech he quoted some of the great leaders and said “everyone should have a positive attitude in life”. He further stated that “we need to have a vision in life to make our dreams come true”.

The function was headed by Dr. Avertano Barretto, Director of Physical Education & Sports. The function concluded with a vote of thanks proposed by Asst. Prof. Jonessa Ferrao. The event was compered by second year Computer Engineering student Mr. Vadiraj Inamdar.

Teachers Day 2022

Teacher's Day was celebrated with great joy on September 5, 2022. The function was organized by the cultural committee headed by Prof. Amey K. Shet Tilve, Counseling cell and the students. The celebration commenced with a march guided by the Director - Rev. Father Kinley D'Cruz and Principal - Dr. Neena Panandikar. The Teachers who completed a decade in the college were felicitated with a token of appreciation.

Dr. Neena Panandikar welcomed the gathering and wished all teaching as well as non-teaching fraternity for what they do for the college. In his address Rev. Fr. Kinley D'Cruz mentioned that “Values imparted by John Bosco as a teacher should not be forgotten, and we should value and implement them”, Rev. Fr. Ralin DeSouza stated that there is a need to impart values in students.



Stand-up comedian Mr. Agnelo Rebello was the main attraction of the celebration who entertained everyone with his humor. A dance performance was showcased by the students of computer engineering department lead by Rohan Raikar. There were lots of games and spot prizes. Mementos were presented to all the members of the DBCE family and the function concluded with a vote of thanks, proposed by Prof. Amey K. Shet Tilve.

**“Scientists investigate that which already is;
Engineers create that which has never been.” -
Albert Einstein**

Engineer's Day was celebrated on September 15, 2022 at the DBCE auditorium. The Guests for this day were

Engr. Mahendra Kakule and Engr. C O P Furtado, The Resource person for the day was Dr. Tanmay Verlekar, Asst. Prof BITS Pilani Goa campus,

Engineers are shaping the future by applying their skills to almost everything. They convert the theoretical knowledge of basic sciences into actual products and thus make our lives easy. Engineers' Day is celebrated on September 15 every year in India, commemorating the birthday of one of the greatest engineers in India and Bharat Ratna recipient, Sir Mokshagundam Visvesvaraya recognizing his contributions in harnessing water resources in India.

Dr. Neena Panandikar- Principal, in her welcome address, advised the students to be passionate and thorough in the fundamentals, to make use of their potential, intelligence and knowledge for the welfare of the society and mankind. Fr Kinley D'Cruz - Director, in his speech motivated the students by addressing them as engineers and also mentioning the great works of Sir M. Visvesvaraya.

A felicitation programme of the participants of Smart India Hackathon 2022, was held. DBCE students were shortlisted to represent at the finals at Hubli and Indore on August 25 and 26, 2022. Two teams namely the Green Ribbon Army from the B.E Computer Dept. which comprised of Carson Rodrigues, Yash Karapurkar, Oysturn Vas, Jaysel Silveira, Dhruvi Tendulkar and Rea D'Souza participated. The mentors of this team were Dr Vivek Jog and Prof. Amey Kerkar, and The Syntax Terminators from T.E Computer Department, comprised of Nishil Hoogar, Shannon D'silva, Tabib Ashraf, Nicole Fernandes, Rafath Umaimath and Nitya Pai and they were ably mentored by Prof. Shweta Morajkar and Prof Ankit Kumar Tiwari.

The Goa Police Hackathon, a 48 hours hackathon for all Goan students was held on September 11, 2022. DBCE bagged the third place. Pratham Shah and Ivan Azim were the participants. The team was mentored by Prof. Jhanvi Naik. The three teams created visually attractive videos and displayed to the audience for a better understanding of the event.



Mahendra Kakule a Civil Engineer by profession and author of the book 'Property Valuation by Income Approach', in his speech urged students to never lose focus and keep achieving greater heights. Mr. C O P Furtado, project Director, National highways Authority of India in his speech encouraged students to answer various competitive exams and scale to higher levels.

Dr. Tanmay Verlekar presented his own research which was on Computer Vision, Machine Learning, Biometrics, and Gait Analysis.

A token of gratitude was presented to the guests and the programme ended with the vote of thanks by Prof Michelle Araujo e Viegas. The Faculty Coordinators for this event were Prof. Deron Rodrigues and Prof. Michelle Araujo e Viegas (ETC Dept.), Prof. Merwyn D'souza (Computer Dept.), Prof. Sharad Shanbhag (Mechanical Dept.) Prof. Kaushik Pai Fondekar (Civil Dept.). The programme was anchored by Ms. Elaine Dias (Counselor).

Unnat Bharat Abhiyan and DBCE ACM Student Chapter Organizes Poster Making Competition



Our College under Unnat Bharat Abhiyan and DBCE ACM student chapter organized Poster Making Competition for students of Government High School, Balli Goa under senior (Standard VIII-X) and junior categories (Standard V-VII) on 24th September 2022. The topic for poster competition was “Technologies for rural livelihood”. Ms. Alpa Dessai, the headmistress of Government High School, Balli, welcomed the UBA team: Dr. Gaurang Patkar, Prof. Sweta Morajkar & DBCE ACM student members Mr. Pratham Shah and Ms. Gauravi Kamat & appreciated them for taking this initiative that will make students work & bring the best out of them. The event received a good response with the active participation of students. Students were creative and highlighted the technologies for rural livelihood. After putting in a lot of efforts, students were appreciated and felicitated with prizes for the beautiful posters made under each category.

Don Bosco College of Engineering signs MoA with Binghamton University New York



Our College in its ongoing endeavor to enhance the quality of education for its students has spread its wings further by signing the Memorandum of Agreement (MoA) with the prestigious Binghamton University, New York.

The MoA signed by the two Institutions of repute on October 12, 2022 establishes a formal mutually rewarding collaborative relationship and academic partnership. It also aims to foster advancement in teaching, research, academic collaboration, and

cultural understanding and to create avenues for enhancing learner experience between our college and Binghamton University. This further initiates an attempt to strengthen both entities by finding ways of combining their complementary resources and strengths.

Both the Institutions have agreed upon creating a specific foundation to encourage exchange and sharing of academic, scientific, and cultural experiences amongst their Professors, Students, and Administrative Personnel.

The MoA was signed by Fr. Kinley D'Cruz- Director, Dr. Neena Panandikar- Principal from our College and Dr. Krishnaswami Srihari- Dean, Thomas J Watson School of Engineering and Applied Sciences from Binghamton University, New York, US in the presence of Fr. Ralin D'Souza - Rector, Don Bosco Fatorda, Heads of the Departments, MoU Faculty Coordinators, Training & Placement Officer (TPO) and Students.

Dr. Neena Panandikar, welcomed Dr Krishnaswami Srihari and thanked him for connecting with the Institute for this collaboration. Fr. Kinley D'Cruz appreciated Binghamton University for this collaboration and have assured that this will be a lifelong association between our College and Binghamton University. Fr. Ralin D'Souza spoke about three aspects of this MoA – 1. It narrates the history of these two Institutions, 2. Both these Institutions have a lot to share, 3. Both have hope to do something better.

In the Dean's address to the audience, he stated that, “None of us have solutions, but we can collectively find solutions and do something for the world at large.” He emphasized on building opportunities on short term courses, faculty and student development programmes, twinning programmes, research, seminars, faculty and student exchange, and various series of seminars.

During the way forward discussion, a lot of questions were asked by the faculty and students. The event was compered by Christina Barretto and the event was managed by Avila Naik, TPO and Dr. Shreyas Simu, Assistant TPO.

DEPARTMENT OF CIVIL ENGINEERING

Two Gold Medalists from our College in Academics at Goa University



Mr. Saiesh Karwarker, Batch 2020, Civil Engineering and Ms. Sibga Shaikh, Batch 2020, Electronics and Telecommunication Engineering of our College secured first place in respective disciplines at Goa University in the Convocation Ceremony held on 26

August 2022. The Governor of Goa - Shri P.S. Sreedharan Pillai awarded the students with gold medals for securing first rank in academics.

Mr. Saiesh Karwarker is awarded with Sumant D. Wagh Memorial Prize and Shri J. Inacio Gracias Gold Medal while Ms. Sibga Shaikh is awarded with Late Mrs. Sushilabai Vasant Khandeparkar Gold Medal.

Mr. Karwarker and Ms. Shaikh have graduated from our College in June 2020. Mr. Saiesh Karwarker is working in Worley India Pvt. Ltd. while Ms. Sibga Shaikh is currently working as a Senior Analyst at Capgemini, Pune. Both the awardees have thanked their parents, teachers, friends and family for their support and motivation.

Rector, Fr Ralin D'Souza, Director, Fr. Kinley D'Cruz, Administrator - Fr. Leo Pereira and Principal - Dr. Neena Panandikar congratulated the awardees.

Installation of CESA Council 2022-2023

The installation ceremony of the CESA (Civil Engineering Student Association) council for the batch of 2022-23 took place on September 9, 2022. The host Mr. Rohan Veigas addressed the gathering

by introducing the Chief Guest - Engineer Mr. Ritesh Singh (National Business Development Manager, sealing and bonding and also the regional sales head for Maharashtra and Goa and working at chemical company-SIKA India Pvt. Ltd), Guest of Honor- Dr. Yogini Deshpande (Renuka Consultancy, Technical Director O P Jindal University, Chair professor of Civil Engineering Department.), Director- Rev.Fr. Kinley D'cruz, Principal- Dr.Neena Panandikar, Registrar - Dr.Kala Nayak and Head Of Department of Civil engineering- Dr. Shwetha Prasanna. The ceremony continued by lighting of the lamp and as the outgoing Chairman Mr. Gul Ahmed Sheikh shared his experience with the audience. The gathering was then addressed by Dr. Shwetha Prasanna who briefed about the activities headed by the previous council.

In the later half, Mrs. Shruti Jambhale introduced the newly elected CESA Council members to the gathering.



The installation process was later followed by 2 technical presentations. The first presentation was given by Engineer Ritesh Singh who spoke on the theme: Edging towards a connected future. He introduced solutions to challenges at construction sites through construction chemicals. He introduced the existing technologies like: self-healing concrete, concrete roads which can charge electric vehicles, robotic construction/3D printing, structural strengthening, etc. He also introduced SIKA's researched and developed products like SIKA CARBODUR and SIKAWRAP SYSTEM (for strengthening beams, slabs, columns), SIKA SOLUTIONS FOR PRECAST CONSTRUCTION, SIKA SOLUTIONS: JOINTS AND CONNECTION IN PRECAST. Later, Engineer Atul Vaidya (waterproofing expert) explained about waterproofing admix: waterproofing additive-powder/liquid and crystalline additives and coatings, waterproofing mortars:

cementitious acrylic coating and crystalline coatings, pre-formed membranes: EPDM/PVC/TPO/APP/SBS, Liquid applied membrane which in turn is divided into may sub-sections and waterproofing application: re-roofing, metal row waterproofing, concealed waterproofing etc. their characteristics, advantages, general system built-up etc, requirements for waterproofing systems, physical parameters, surface preparation and application.

AutoCAD training for SE Civil Students



AutoCAD training for the SE Civil students was conducted on September 12, 2022. The software is one of the most used tool in Civil Engineering and is used by many architects, engineers, and many other professionals in work execution for general and detailed drawings. In this course Prof. Shruti Desai, Prof. Starina Dias and Prof. Jonessa Ferrao trained the students on basics of AutoCAD software using the Draw and Modify Toolbar, Dimensioning, layers etc. The students also got hands on practice on these toolbars. This course is provided to the students to enhance their all-round development.

Civil Engineering Conference in the Asian Region (CECAR 9)

Twenty Students of Department of Civil Engineering attended an international Conference “Civil Engineering Conference in the Asian Region (CECAR



9)” hosted by *The Institution of Civil Engineers (India)* which was held during September 21–23, 2022 Goa, India. Two project groups successfully presented their papers before International delegates. Mr. Tanishq Kulkarni presented a paper entitled “Flood Analysis and Mapping for Mandovi River Basin” and Mr. Rohit Ravi, presented a paper entitled “Experimental Study on Waste Rubber Chips and Brick Powder for Soil Stabilization”. The project was guided by Dr. Shwetha Prasanna and Prof. Kaushik Pai Fondekar.

Project Competition

The Department of Civil Engineering organized project competition for final year Civil Engineering students on September 29, 2022. All the project videos were displayed and judged based on originality, innovation and business potential. The best three projects were awarded prizes. The coordinators for the project competition were Prof. Satyesh Kakodkar and Prof. Swaroopa Sail.

Field trip to Opa water treatment plant & RMC plant at Kundaim, Ponda

On October 7, 2022, the students of Third year Department of Civil Engineering visited the Opa water treatment plant, Opa, Khandepar, during the first half of their field trip.

The students, accompanied by Profs. Kaushik Pai Fondekar, Prachi Dessai and Shruti Dessai were shown the entire process of water treatment before being supplied for public use to Ponda and Tiswadi talukas. This included the intake of raw water through vertical turbine pump house constructed on the bank of the source, River Khandepar, that houses 3 pumps and 3 motors. Aeration and sedimentation processes were also explained after which the students were taken to the filter beds to see how slow sand filtration is carried out at the plant. Subsequent processes of underground chlorination after which the treated water is stored and supplied were also explained.

For the evening half, students visited the RMC plant at Kundaim, Ponda. The Quality control In-charge

informed the students about the facilities available at the plant.

Students were first taken to the QC Laboratory which houses various instruments such as accelerated curing tank, Marsh cone funnel amongst others used to check and maintain the concrete consistency. Samples of fibre concrete, light weight concrete, M125 UHPC and pervious concrete, their application and advantages were also shown and explained to the students.

Students were also shown the different parts of the plant which include 2 silos of 100 tonnes each, aggregate bins for storage and supply of fine and coarse aggregates of different sizes and water tank.

Field trip to Lotus towers- Manas developers' site in Panjim, Basilio Heights phase 2 in St Inez, and the District Court in Mercês



On October 7, 2022, the students of second-year civil engineering visited three sites, Lotus towers- Manas developers' site in Panjim, Basilio Heights phase 2 in St Inez, and the District Court in Mercês.

At the Manas developers' site in Panjim the students were introduced by Engineer Amar Singh who explained to the students about the piling that is done there.

At Basilio Heights, phase 2 in St Inez the students met Engineer Niyant Raghvani. The students were informed about the residential building and the use of Patented scaffolding for the structure.

At the district court in Mercês, the students met Engineer Vinayak. It is a site by GSIDC (Goa State Infrastructure Development Corporation Limited)

the contractors are M.Venkata Rao Infra Projects Pvt. Ltd and the consultants are Shrikhande Consultants. Students were informed that were going to be more than 20 courtrooms in the building.

The students were accompanied by Prof. Starina Dias, Prof. Jeffrey Valadares, and Prof. Oswyn Soares.

Talk on “Bamboo, a single material: a thousand products”

A talk on 'Bamboo, a single material: a thousand products' was conducted by Mr. Kanwarjit Nagi on October 10, 2022 for the third year Civil Students. Mr. Nagi has completed his degree from Bachelor of Architecture School of Planning and Architecture, New Delhi P.G. Dip. Corporate Law & Management from Indian Law Institute, New Delhi in the year 2013.

Mr. Kanwarjit Nagi has 34 years of experience in solar passive building projects, operations research and simulation games. Over time he has been working with natural materials and went on to spend a few years working with bamboo. Mr. Kanwarjit explained various products of bamboo and explained their applications. He also focused more on civil engineering applications of bamboo.

SANKRITI 2022

The Civil Engineering Students Association (CESA) organized 'Sankriti 2022' from October 20-21, 2022. 'Sankriti' is a technical event that provides opportunity to students from all over to put forward their talents. There were over 100 participation from colleges such as Goa College of Engineering, Father Agnel Polytechnic, Padre Conceicao College of Engineering, Bicholim Polytechnic, Perpetual Succor, Mustifund Aaryans, and National Institute of Technology Goa.

The inaugural function was held on October 20, 2022,



and was graced by the presence of the Chief Guest Engineer Deogonda Patil. Mr. Rohan Viegas and Miss Clarita De Souza welcomed the dignitaries. Director - Rev Fr. Kinley D'Cruz and Principal - Dr. Neena Panandikar motivated the students as they addressed the gathering.

The 1st day of Sankrit had events like truss design, quiz competition, AutoCAD competition that challenged their time management and designing skills.

The 2nd day started with the slump test that challenged the minds of all the students followed by the final round of the quiz competition

For the valedictory function which was held on October 21, 2022, Engineer Shrikanth Dhond graced the occasion as the Chief Guest. The Chairman of CESA Mr. Sahil Patil welcomed the dignitaries and Miss Sumran Mogale read out the report for Sankriti 2022.

Mix Design Workshop for PWD Engineers



As a part of MoU signed with PWD a one day concrete mix design workshop was organized by Department of Civil Engineering in association with JSW Cements Ltd.

Er. Uttam Parsekar, Principal Chief Engineer of Public Works Department, Govt of Goa was the Chief Guest. Fr. Kinley D'Cruz – Director, Dr. Neena Panandikar - Principal, Er. Prajwar Thakur and Dr. Shwetha Prassanna – Head of Department were present on the dais.

Er. Parsekar congratulated the department for organizing the workshop for PWD Engineers.

Prof. Shruti Jhamble and Prof Nadya Baracho were the resource persons and Prof. Satyesh Kakodkar was the coordinator.

IIC - TechTalks



The Institution Industry Cell (IIC) and Department of Civil Engineering organised 'TechTalks' – Edging towards a connected future for the Second Year and Third Year Civil Engineering Students. The motive behind these sessions was to enhance the learning experience of students and encourage industry – institute interaction. Engineer Pravin Kumar Agarwal who is currently the Director of Centre Public Works Department, Goa was the Chief Guest for the occasion.

The session began with an introduction to precast components. He briefed about how pre-casted components can be used to construct a large storey building within a short time. His presentation also covered the current NIT Goa campus in Cuncolim. He explained how the entire campus was being built using precast components. He showed various pictures of the site under construction and a few computerised sketches of the complete project. The site is situated in a hilly area and thus the different buildings of the campus will be casted in its profile only with interconnectivity between the five building blocks provided.

The second speaker for the session was Dr. Yogini Deshpande who is the Technical Director of Renuka Consultants and holds a PhD in Civil Engineering from Purdue University. Under her leadership, Renuka Consultants opened India's first Material Testing Laboratory in PPP mode with Mira Bhayander Municipal Corporation. The topic for her session was "Innovation in Concrete Technology". She gave a brief insight on the basics of concrete and also the concrete composition. She also explained the cement production process from quarrying up to the distribution of cement in various places. She then moved forward with her presentation, highlighting that one tonne of cement emits one tonne of carbon

dioxide. Hence, the need to be sustainable. She also covered topics such as Supplementary Cementitious material (SCM), Self-Compacting Concrete & Light Weight Aggregate concrete.

Tanashiq Kulkarni's Achievement



Tanashiq Kulkarni's is a Department of Civil Engineering Alumnus from the batch of 2018-2022. He has got admission at NITK Surathkal for a 02 years full-time M. Tech degree in Construction Technology & Management. He has cleared the

L&T Build India Scholarship Scheme written exam. Tanashiq is sponsored through the Course fee entirely by L&T. He is being paid a monthly stipend during his tenure in the program.

Build India Scholarship Scheme is an illustrious user-oriented programme sponsored at IIT Madras, IIT Delhi, NITK Surathkal & NIT Trichy with a unique ascendancy for the past 2 decades through which L&T molds aspiring young talents with engineering acumen into capable construction technology managers to play a more relevant part in engineering- the future of L&T Construction.

DEPARTMENT OF MECHANICAL ENGINEERING

Installation of Chapter Working Committee of ISHRAE DBCE Student Chapter 2022-23

The Mechanical Engineering Department installed the Chapter Working Committee of the ISHRAE (Indian Society of Heating Refrigeration and Air Conditioning Engineers) DBCE Students Chapter for



the Academic Year 2022-23 on August 27, 2022. The event was graced by the Chief Guest- Mr. Balkrishna Chodankar (President ISHRAE Goa Chapter), Guest of Honour - Dr. Anirudha Ambekar (Assistant Professor, IIT Goa), Rev Fr. Kinley D'Cruz (Director, DBCE), Prof Ajit Salunke (HOD – Mechanical, Faculty advisor, ISHRAE DBCE Student Chapter) and other dignitaries from ISHRAE Goa Chapter which included Mr. Rupchand Aldonkar (President Elect ISHRAE Goa Chapter), Mr. Sunil Shetye (Past president ISHRAE Goa Chapter), Mr. Mohnish Borker (Student Chair, ISHRAE Goa Chapter).

The program started off with a keynote address by Dr. Anirudha Ambekar on 'Energy and Environment: Understanding the Landscape'. Dr. Anirudha while explaining about energy, its consumption patterns, environmental impacts and the need to develop direct mitigation techniques, threw light on the challenges faced by society to continue on the path of development while eliminating the negative effects associated with the current sources of energy. Dr. Anirudha added, “A balanced strategy where combustion technology is unitized synergistically with renewable and alternate fuels would be ideal.”

The National Anthem was sung at 4:00 pm followed by a welcome address by Prof Ajit Salunke highlighting the various activities carried out by the Chapter and congratulating the students for excelling in the various competitions organised by ISHRAE. Rev Fr. Kinley D'Cruz addressed the event by stating “If you believe it will work out, you will see Opportunities. If you believe it won't, you will see obstacles”, urging the students to make the best use of the Chapter for their academic growth and career prospect. The Chief Guest - Mr Balkrishna Chodankar congratulated the DBCE Students Chapter for being one of the most active and vibrant student chapters and addressed the theme for the year “ Prithvi, Paryavaran, Parivartan”.

The Installation of Chapter Working Committee was initiated by Student Chair of IGC, Mr. Mohnish Borker by administering the oath to the newly elected Chapter Working Committee, comprising of Ms. Ayisha Shaik– President, Mr. Aditya Lotlikar – President-Elect, Mr. Trish Dourado – Secretary, Mr. Omkar Naik – Treasurer, CWC members, Mr. Aires Sousa, Mr. Rio DE Mello and Mr. Pratok Borkar.

The event concluded with Mr. Aditya Lotlikar, President-Elect ISHRAE DBCE Students Chapter, proposing the vote of thanks. The event was attended by Third and Second year mechanical students of our College. The event was compered by Mr. Adarsh Chodankar.

Tech Talks: Edging towards a connected future

Tech Talks: Edging towards a connected future is an educational initiative by Institution Industry Cell to promote knowledge in recent technology and systems to faculty and students through technical talks by eminent personalities from industry as well as academia. It was a two days event on 9th and 10th September 2022. The Department of Mechanical Engineering organised two sessions for the event. The first session was delivered by Dr. Sreenath Balakrishnan, Assistant Professor, School of Mechanical Sciences, IIT, Goa on the topic 'Applying Mechanics to Biological Cells'. He explained the importance of mechanics in biology, mechanics of nuclei and analysis using mechanics of membranes. The second session was delivered by Mr. Sumukh Kamat, Manager, Projects Strategic Expansion Programmes, CommScope on the topic 'Importance of Project Management and basics to successfully handle the projects'. He explained about the qualities required to be a great project manager, types of project management approaches, Agile & Waterfall project management, stages of project management along with the required tools and also showcased some real-life case studies which he has worked on in the past. Around 60 students attended the program. The event was compered by second year student of the department Mr. Rio DeMello. The coordinators for the program were Mr. Sanjeel Naik and Mr. Saurabh Raikar.

Installation of 11th MESH Council (2022-23)



The Inaugural ceremony of the Mechanical Engineering Students Hub (MESH) for the year 2022-2023 was held on September 10, 2022. The Chief Guest for the function was Mr. Jayaprakash P V, Head of Engineering, Head of Center of Excellence - Iron Ore Goa, Vedanta Ltd, Guest of Honour Mr. Viraj Naik, Finance Manager, IFB Ltd. Also present were Neena Panandikar (Principal), Fr. Kinley D'cruz (Director), and Ajit Salunke (HOD Mechanical Engineering).

Mr. Jayaprakash P V (Chief guest)- spoke about the changing trends and evolution of the Green Steel and the future scope of mechanical engineers in the area of reduction of carbon emission standards. Mr. Viraj Naik- Guest of Honour, emphasised the role of finance in life and motivated students to start investing at a very young age. Dr. Neena Panandikar lauded the achievements of the students of previous MESH Council and encouraged students to learn about the new emerging technologies in the area of Machine Learning, AI etc. Fr. Kinley D'cruz shared his thoughts and motivated the students to conduct several such events to build the organising and leadership qualities.

Prof Ajit Salunke appreciated the efforts put by the students of the MESH council and gave an overview of the events held by the Department of Mechanical Engineering, the Industrial visits and the workshops held in the year. Prof. Sanjeel Naik, Student-Coordinator MESH briefed about the MESH Chapter and the events carried out by MESH in the last year.

The new MESH council consists of Chairman- Mr. Kaushik Varma Secretary- Mr. Bosco Medeira, Treasurer- Mr Aden Gomes, Editor- Mr Ayres Pereira, Student Executive Members- Mr. Xavier Furtado & Mr. Prathamesh Chandgadkar Mr. Kaushik Verma, MESH chairman offered a vote of thanks. The program was coordinated by the MESH Coordinators Prof Sanjeel Naik & Prof Suraj Marathe

'Nirmana 2K22', Project Expo & Competition

The Mechanical Engineering Department organised 'Nirmana 2K22' project exhibition & competition on September 10, 2022 to provide an opportunity for students to showcase their innovative projects. The



expo was inaugurated by the Chief Guest, Mr. Jayaprakash P V, Head of Engineering, Head of Center of Excellence - Iron Ore Goa, Vedanta Ltd. At 10.15 am.

Mr. Viraj Naik, Chartered Accountant, Finance Manager, IFB Industries Ltd. was the Guest of Honor. Fr. Kinley D' Cruz, Director, Dr. Neena Panandikar, Principal, Prof. Ajit Salunke, HOD-Mechanical Department and other faculty members were present.

Various innovative ideas were conceptualised in the areas of Robotics, Automation, Artificial Intelligence/ Machine Learning, Fluid Engineering, HVAC, 3 D printing etc. and have been developed as successful prototypes for applications like Agriculture, Healthcare, Mobility, Condition Monitoring, Defence, Ergonomics, Sports etc. Many of the projects have been sponsored by Goa State Innovation Council.

The projects which were displayed are “Drone for precision spraying of pesticides on coconut trees”, “Automated seed sowing machine”, “Gripper for Soft Robotic Application”, “Oxygen Concentrator”, “Exoskeleton for Assistance in Walking”, “Fire Extinguishing Action Rover”, “Landmine detecting robot”, “Wind powered system to save crops from birds”, “Automatic 2D Thermocol Cutting Machine”, etc. The event Convenor was Prof. Ajit Salunke, HOD- Mechanical Department and Dr. Suraj Marathe, Associate Professor, Prof. Avil D'Sa and Prof. Sanjil Naik were the organising secretaries. Prof. Sooraj Mohan and Prof. Aniket Naik were the coordinators. The judges were Prof. Raghuvir Chary, Govt. Polytechnic Panjim, Mr. Yogesh Tarcar and Mr. Mayur Shetti.

Alumni Achievement

Mr. Siddant Panjekar, Alumnus of Mechanical Department has received funding for his project “Development of machine to Recycle 3D printing

material” under FiiRE Nidhi EIR. He will receive Rs.30,000/- per month for a period of 1 year to complete the project. Siddant has his own startup 'Ratan 3D World' which is involved in 3 D printing.



Alumni Achievement

Mr. Evarard Leitao, Alumnus of Mechanical Department, DBCE (2018 - 2021 batch) has been selected as “Stress repair engineer” at Airbus, UK. He completed his Masters in Science in Aerospace from Cranfield University, UK.



Gajanan

Korgaonker, Alumnus of Mechanical Department (2018 - 2021 batch) has been selected for Master of Science in Mechatronics and Intelligent Machines program from University of Central Lancashire, UK. The Management, Director, Principal, HOD-Mechanical and staff of DBCE heartily congratulate them for their success.



Field Trip to Netzsch Technologies India Pvt Ltd, and Astra Metals Pvt. Ltd. in Verna Industrial Estate

Third Year Mechanical Engineering (TE) students visited Netzsch Technologies India Pvt Ltd, and Astra Metals Pvt. Ltd. in Verna Industrial Estate on October 07, 2022. The visit was organized in association with Mechanical Engineering Student Hub (MESH) and coordinated by Dr. Suraj Marathe and Mr. Chetan Gaonkar.



At Netzsch Technology Pvt. Ltd manufacturers of highly customized pumps that are used in industrial application, the students were briefed about the products of the company by Mr. Ashutosh Bhandodkar, Senior Manager- Customer Service and Planning. Later, they were introduced to major departments of manufacturing of pump such as material inspection, machining, assembly, and store. The students were also briefed about the various processes for material inspection and working of vertical and horizontal CNC machines. Whirling operation of rods was also shown. Various parts such as rotor, stator manufacturing and assembly were also shown. The students were guided by Mr. Malappa Pujari, Production Engineer and Mr. Somnath Surlakar, Senior Production Engineer.

Astra Metals Systems Pvt. Ltd is an end-to-end solutions provider for Precision Sheet Metal Works including fabrication and assembly. The students were exposed to different sheet metal operations carried out in the industry. Students got an opportunity to see the operations such as Punching, Bending, Laser cutting, Fabrication and Powder metallurgy process. The students were guided by Mr Murad Abdul Mullah, Director and Mr. Dipesh Narvekar, Quality Head. Overall, it was a very enlightening and learning experience for the students of TE Mechanical.

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

IEEE Bombay Section Student Branch Meet Up - Goa Region

The IEEE (Institute of Electrical and Electronics



Engineers) Student Branch (SB) organized a IEEE Bombay Section Student Branch Meet Up on August 26, 2022. 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 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 an insight 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 a 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.

Tech Talks 2022- Edging towards a connected future

The Institute Industry Cell (IIC) 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 use 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 the 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.

The 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 departmental coordinators for the event were Prof. Flavia Leitao and Prof. Samantha Cardoso, guided by the Head of department of Electronics & Telecommunications Engineering Dr. Varsha Turkar. Tech Talks 2022 was conceptualized by the IIC headed by Principal - Dr. Neena Panandikar, along with TPO Mrs. Avila Naik and Asst. TPO Dr. Shreyas Simu.

Field trip visit to Borkars Packaging

The Department of Electronics and Computer Science organized a field visit on September 24, 2022 to the Borkars Packaging unit of its faculty as a part of faculty development programme.

Borkar Packaging Pvt. Ltd. has been into existence since last seven decades and it is a professionally managed and environmentally conscious organization in packaging sector today in INDIA. Today they are the only packaging company in India having strong presence in almost every segment.

They make customized packaging based on the needs of the clients. The process of packaging includes punching, embossing, pasting, foil stamping, hot-stamping of holograms on to the cartons for some of the best-known branded products in the world.

By visiting the unit an overview of the entire process of packaging, process of printing using controller card and use of plc for the process was explained. Also a demonstration of the softwares used was shown and recycling aspect was discussed. Some of their clients included FMCG, Pharma, Food and Beverage, Liquor, Household products and Personal-care and Specialty products sector. A total of 14 faculty attended the fieldtrip.

Inaugural Ceremony of 4th International Conference on Cybernetics, Cognition and Machine Learning Applications

The 4th International Conference on Cybernetics, Cognition and Machine Learning Applications, Goa, India (IEEE Conference Number - 56841), technically co-sponsored by IEEE Germany Section was held on October 8-9, 2022. It was organized by Department of Electronics & Computer Science of our College.



This conference held in hybrid mode, provided a networking platform for researchers and Scientists working in Cybernetics, Cognition, Intelligent Computing and Machine Learning areas.

The Chief Guest for the Inaugural ceremony was Prof. Harilal B. Menon, Vice-Chancellor, Goa University. The occasion was also graced by the presence of keynote speaker, Dr. Venkatanareshbabu Kuppili, Asst. Prof., CSE Dept., NIT Goa; Plenary Speaker, Takako Hashimoto, Vice President, Chiba University of Commerce, Research Fellow, The University of Tokyo; Rev. Fr. Kinley D'Cruz, Director-DBCE and Dr. Varsha Turkar, Head of Department of Electronics and Computer Science and Local organizing chair.

The Inaugural ceremony commenced with a welcome prayer and lighting of the digital lamp. Thereafter, Rev. Fr. Kinley D'Cruz, briefed about the conference and welcomed all the participants.

Thereafter, Dr. Varsha Turkar, addressed the gathering and read the message of the Principal, Dr. Neena Panandikar, in her absence. Dr. Harilal Menon, 9th Vice-Chancellor of Goa University, Senior Professor and Dean, School of Earth Ocean and Atmospheric Sciences was the Chief Guest for the function who was introduced by Prof. Yeshudas Muttu. In his address, he focused on publishing the

experimental results in International journals for evaluation by International scientific committee. Putting forth the challenges of gender inequality and mind-set of Indians, he encouraged participants to take up Entrepreneurship as a career option. He hoped for a fruitful discussion for the two days conference. The Chief Guest was felicitated with a token of appreciation.

In his keynote address, Dr. Venkatanareshbabu Kuppili, provided insights on the topic Recent Trends in Machine Learning and it's applications. He explained the various algorithms in Machine Learning such as Artificial Neural Networks (ANN), Decision trees, Support vector machines, Regression and Label distribution learning. Further he elaborated on Deep neural networks, Spiking neural networks and optimization for improving ANN.

This was followed by Plenary Talk by Ms. Takako Hashimoto, titled 'Structuring Topics on Large-Scale Twitter for Discovering People's Perceptions.' She presented her research work which includes visualizing people's perceptions and uncertain situations such as flaming and rumors by structuring topics on large-scale social media, using data mining techniques, time series analysis, etc. The Inaugural ceremony concluded with a vote of Thanks proposed by Prof. Melba D'Souza. The function was compered by Prof. Deron Rodrigues.

ThinkTech 2k22 - A National Level Project Idea competition organized by the Final Year Project Quality Assurance Committee, Department of Electronics & Computer Science Engineering



ThinkTech 2k22 - a National Level Project Idea competition was organized by the Final Year Project Quality Assurance Committee, Department of Electronics & Computer Science

Engineering of our College, 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 - Klenzaid's 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. Some of the colleges that participated were The Northcap University- Gurugram -Haryana, Ramaiah Institute of Technology- Bengaluru, Sharad Institute Of Technology College of Engineering- Kolhapur, P.V.P.I.T. Budhgaon – Sangli, A J Institute Of Engineering and Technology- Mangalore, Vels Institute of Science Technology and Advanced Studies- Chennai, Fr. C. Rodrigues Institute Of Technology, Vashi- Navi Mumbai, Walchand Institute of Technology- Solapur, SRM Institute of Science and Technology- Chennai, Padre Conceição College Of Engineering – Verna, St.Xavier's College- Mapusa, Shree Rayeshwar Institute of Engineering & Information Technology- Shiroda,- Goa, Parvatibai Chowgule College of Arts & Science- Margao, and Don Bosco Collge of Engg- Fatorda.

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. 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 event was compered by Ms. Karen Mendes and commenced with the welcome address by Rev. Fr. Kinley D'Cruz. In his address, Fr. Kinley D'Cruz welcomed the guests and appreciated the efforts put in by the participants, coordinators and judges and motivated them. Later, Dr. Neena Panandikar addressed the gathering and appreciated the enthusiastic participation at ThinkTech 2k22. She said “Let not your ideas die off, let them possibly lead to exciting breakthroughs and even innovations.”

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 Profs. Michelle Araujo e Viegas and 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 Head of Department 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 our College 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 “Dermoscopic Disease Prediction”

The Director and Principal presented mementos to the Judges as a token of appreciation. The event concluded with the Vote of thanks by the Coordinator of the event, Mrs. Melba D'Souza. The student coordinators were Ms. Aiyana Sacrafamilia and Mr. Shane Rodrigues. The faculty coordinators of the event were Profs. Anisha Cotta and Melba D'Souza.

DEPARTMENT OF COMPUTER ENGINEERING

TECHMANIA 2k22



Department of Computer Engineering organized Tech Mania 2k22- an annual project competition for the final year & third year projects on August 27, 2022. The Tech fest was powered by Xerviz Wlobal.

The formal function began with the arrival of the Chief Guest - Mr. Milind Anvekar, Senior Vice President, Open Destinations and also the Chairman at Goa Technology Association, Guest of Honor - Mr. Rohan Warty, Managing Director, Xerviz Wlobal, Secretary at Goa Technology Association, Rev.Fr. Kinley D'cruz- Director, and Dr. Gaurang Patkar- Head of Department of Computer Engineering This was followed by the welcome address by Dr Gaurang Patkar & Rev.Fr.Kinley D'Cruz.

The Department's annual project book “TechSeed 2k22” was released at the hands of the Chief Guest and the other dignitaries during the function.

After the launch of the Department's annual project book “TechSeed 2k22”, Mr.Milind Anvekar addressed the gathering & focused on the importance of building a strong team & solving a true problem which would help the society. He also shared his personal experience as a student while working on his academic project.

The best three final year projects and best three third year mini projects were awarded with a trophy and certificate at the hands of the dignitaries.

The competition was judged by eminent technocrats

namely Mr. Rohan Warty, Mr. Sohum Prabhudesai, Senior Team Lead at Persistence Systems, and Mrs. Suwarna Surlekar, Director at Fun Minds Learning Ltd.

Prof. Mithil Parab announced the winners & at the end Prof. Amey Kerkar, Tech Mania Coordinator proposed the vote of thanks. This event was compered by Mr. Vadiraj Inamdar & Mr. Shubham Tendulkar, students from third year computer department.

Panel Discussion on CAREER INSIGHTS for SE,TE computer students

C-codes student association along with ACM Goa students chapter of Department of Computer Engineering organized a Panel Discussion on career insights. The talk was conducted on August 27, 2022, for second and third year computer engineering students. The resource people for the workshop from Open Destination limited (ODL) were Mr. Milind Anvekar- SVP operations Customer experience-SaaS, Ms. Rupal Karande- VP Projects Architects , Mobile Development Project Management. Mr. Rupesh Kargaonkar – Team Lead Development (roles), Training , Mr. Leon Mesquita- Head of Professional Services Product Management, QA Automation and Ms Amrapalli Nayak. The coordinators for the event were Dr. Gaurang Patkar, Prof. Merwyn D'souza, Prof. Amey K. Tilve and Prof. Sweta Rane. The speakers shared their journey of how they turned from an engineering students to now leading the company.

Mr. Milind Anvekar started by saying: “future of IT industry is bright.” He mentioned that there will be 20 times the present demand for digital stalls by 2024. Ms. Rupal shared her journey of being a strong independent women and also mentioned about the various positions that a Computer Science student



can get in the company. Mr. Leon mentioned that he was very keen in Computer Science from the very beginning and chose to be an engineer inspite of coming from a family of doctors. He said that even if one is not good in programming there are different roles that a person can play in a tech company like being a business analyst.

Mr. Shakti shared his experience in software testing and game testing. Mr. Rupesh said that he was always interested in programming problem solving and he also trains people so that they ease out in an organization. Ms. Amrapali shared the story of how she convinced her parents to let her drop biology despite coming from the family of doctors and how she was always interested in computers.

Ms. Rupal guided the audience on various positions being offered to the engineering student at the company, such as being project manager, team lead, technical architect, assistant development manager. Finally, the session speakers answered all the questions posed by the students. Mr. Milind at the end said “Do the job you like to do or like the job you do”. The session concluded with a vote of thanks proposed by Prof. Merwyn D'souza. The event was very informative and a great success.

Tech Talks: Edging Towards a Connected Future

On September 9, 2022, the Department of Computer Engineering in association with the Institution Industry Cell (IIC) organized a knowledge sharing session called Tech Talks: Edging Towards a Connected Future. This program was organized with the intention of sharing ideas with technology leaders. This allows students to have a brief insight into the life of a technocrat.

The speaker for the program was Mr. Kapil Nair, Chief Technical Officer (CTO) at Conexao Technology Solutions, Panjim. His topic was based on “What one can do while in college to be industry ready”. Mr. Kapil Nair explained the IT trends in today's industry. He told students that it is very important to pick a favorite programming language and get acquainted with it. He went on to reveal statistics on the popular programming languages used in the industry. Mr.

Nair encouraged students to create a GitHub account and learn how to contribute to projects. He mentioned the need to read technical magazines and participate in hackathons and competitions. He also told students that it's important to network with their seniors / juniors and improve on their communication skills. The session ended with a Q & A round.

C-CODES organizes Prototyping and 3-D Printing Seminar



The Department of Computer Engineering in collaboration with the C-CODES (Council of Computer Department Engg. Students) and the Goa State Innovation Council, organised a seminar on Prototyping and 3D printing technology on September 10, 2022 for the S.E and T.E computer students. The speakers were Mr. Rajdutt Kenkre (DBCE Alumni – 2018 batch) and Mr. Joel Pacheco (DBCE Alumni – 2021 batch), from the Rapid prototyping lab at DBCE, Fatorda. The seminar began with a presentation that described the Goa State Innovation Council's objective and numerous initiatives.

Mr. Rajdutt explained the procedure to avail the funding for the projects and other services that are offered by the council. The workings of the 3D printing process, the many types of raw materials needed, and other requirements were all described in detail. Various applications of 3D printing were also discussed. The session came to a close with a brief practical demonstration of how to use a 3D printer and the Cura software by providing the design and other commands. Mr. Rajdutt said “3D printing potential is unlimited, and it is the future!”

The students were given a tour of the prototype lab by Mr. Joel, where they saw numerous machines

including: 3D printers, laser cutters, drones, power tools etc. A basic description of how these gadgets work was provided. Students learnt about the most up-to-date 3D printing technologies. They were also shown various models, puzzles, articles with intricate design that were 3D printed. The session ended with an interactive question and answer session. Some of the questions that were asked were “What's the cost of a 3D printer?”, “Is resin printing same as 3D printing”. The faculty coordinator was Asst. Prof. Merwyn D'Souza. The student coordinator was Mr. Nikhil Rao.

Field Trip to OPTEL Vision Pvt Ltd & Infinity3D, CIBA in Verna Industrial Estate

Our College in association with C-Codes - Computer Department students association organized a field visit on October 7, 2022 to OPTEL Vision Pvt Ltd & Infinity3D, CIBA in Verna Industrial Estate for Third year Engineering Computer students. Around 65 students were accompanied by Professors :- Dr. Vivek Jog, Norman Dias & Sweta Morajkar.

The students first visited OPTEL Vision Pvt Ltd, wherein they were welcomed by the HR manager Disha Juwarkar & one of the R&D employee Nutan Kamat who gave a brief introduction about the company origin, vision and mission of the OPTEL Group, saying that it is a multinational, leading global provider of traceability systems which uses its innovative technologies to create a better world. Following the introductory session, students were divided into batches & were shown warehouses, sub assembly line, packing of the products & QR printing on the products by the employees. Optel Vision indeed provides true end-to-end traceability solutions that allows one to verify and track the history, location and even the state or status of individual products, regardless of where they are in the supply chain.

In the afternoon session, students visited Infinity3D, CIBA -Verna where they were explained to about different types of 3D printing techniques. Practical applications of a 3D printer. Also, laser-cut products were shown. Few of the ongoing 3D printing were shown to the students. The staff at both companies

were very welcoming and supportive. The field visit was a very informative & exhilarating experience for all the students. Prof. Manisha Fal Dessai coordinated the field trip.

Agile Software Development Student Development Program (SDP)

C-codes- student association (Computer Engg. Dept, DBCE) along with TPO organized a Student Development Program (online mode through google meet) on Agile Software Development on October 13, 2022 at 3pm. The talk was conducted for third year computer engineering students. 40 students attended the talk. The resource person was Amita Bhusavalkar, Agile Ninja coach, TCS having over 20 years of experience. The coordinators for the event were Prof. Merwyn D'Souza and Prof. Avila Naik(TPO).

The expert spoke on various topics related to agile programming like:

- Traditional programming vs agile programming,
- The four core values of Agile software development as stated by the Agile Manifesto are:
 - individuals and interactions over processes and tools;
 - working software over comprehensive documentation;
 - customer collaboration over contract negotiation; and.
 - responding to change over following a plan.

Expert Amita said that “traditional programming approach can also work concurrently with agile programming”. The session concluded with a vote of thanks proposed by Prof. Merwyn D'souza. The event was very informative and interactive.

Winners at MIT Idea Competition

On October 13-15, 2022, Manipal Institute of Technology (MIT) hosted an idea competition and exhibition 'Vedanth 12.0', for which 10 teams were selected. Two of these teams were from our college. The preparation for the competition kickstarted a week ahead, with rigorous planning and working with the respective faculty and mentor. The two teams that represented the college



Team 1 - Tech Pirates (Sai Rane, Rhys Rodrigues, Pranav Naik and Kapil Patil) Team 2 - The 925ers (Christie Fernandes, Nikhil Rao, Vedant Gad and Glory D'Cruz) Both of the teams were mentored by Prof. Amey K Shet Tilve.

The exhibition was held for three consecutive days and was visited by various people. Everyone was pleasantly surprised by the variety of ideas and the talent of these aspiring engineers. Among these Prototypes were an Autonomous Wall Painting Bot, a Touchless Pad, a Computer Aided Soldering Station and many more including the projects developed by students from DBCE : The Neural Kissan and Buskar.

Visitors asked numerous questions about the project. The event was judged by MIT professors Mr. Johnathan Monterio, Mr. Deepak D and Mr. Manoj R. It was a fantastic opportunity to network with people from and outside of MIT. The prize distribution was held on the last day of 'Vedanth 12.0' and the teams that won the prizes were the 'Tech Pirates' from DBCE for their project on Automated Farming called Neural Kissan. The team won a cash prize of Rs. 20,000 along with a trophy. It was a proud moment for our college to have won first place at a national level competition. The event ended with a final vote of thanks to the judges. The competition was an unforgettable event for everyone involved, and the teams undoubtedly learnt a lot to carry forward in their engineering career. This competition has only opened the way for future projects and collaborations with MIT and other Colleges.

SCIENCE AND HUMANITIES

FE Student Induction Program

As mandated by the AICTE Model Curriculum (RC 2019-20), the Department of Science & Humanities

conducted a two-week Student Induction Program (SIP) for the newly inducted first year engineering students from 26th September to 7th October 2022. The Induction Programme was co-ordinated by Institute Induction Programme Cell (IIPC) members Ms. Gladys D'Silva & Mr. Harison Cota under the leadership of Dr. Kala Nayak, Registrar & HOD, Department of Science & Humanities. The schedule of the Programme was meticulously prepared keeping in mind the norms and recommendations set in the model curriculum.

Day 1 (26th September 2022)

In the morning session the Mechanical & Civil engineering students were welcomed and addressed by the Director, Fr. Kinley D'Cruz, while in a parallel session the Rector Fr. Ralin De Souza delivered a session on 'The Don Bosco Spirit' to the ECS & Computer Engineering students. The Director briefed them about the inception of the college and gave general instructions on discipline and overall behaviour in the institution. He said "We want your four years stay here at DBCE to be a happy and memorable one".

Fr. Ralin in his session talked about the Preventive system of Don Bosco's education which he said "is based on three pillars: Reason, Religion & Loving Kindness".

In the next common session, Pincipal, Dr. Neena Panandikar gave a general overview of the various activities and achievements of the college. She solicited the support of the students saying "You are our important stakeholders, contribute and help us grow."

In the afternoon session, all the students were engaged in ice-breakers and fun & talent search activities by the counsellors Ms. Elaine Dias & Ms. Mancia Lobo.

Day 2 (27th September 2022)

In the first session Director, Fr. Kinley D'Cruz welcomed the ECS & Computer Engineering students, while Rector Fr. Ralin De Souza engaged the Civil & Mechanical Engineering students.

Training & Placement Officer - Ms. Avila Naik, gave an overview of the career options available to engineering graduates including higher studies and becoming entrepreneurs. She also detailed the activities conducted by the placement cell.

In the afternoon session the students were

addressed by faculty from their respective branch on 'Role of Engineers in Society & Industry'.

This was followed by a session by the heads of the respective departments on Vision, Mission, Accreditation and the various activities and Student Associations / Chapters in the respective department.

Day 3 (28th September 2022)

The day started with a session on Syllabus, Examination and Grading System by Dr. Kala Nayak, Registrar & HOD - Department of Science & Humanities. She also briefed the students about various scholarships they can avail of, and introduced the students to the faculty who would be teaching them in the first semester.

In the afternoon the students were given an insight into the Cultural, Sports, NSS, E-cell, IIC, IEEE, SEEDS, Satellite Club and FSAI activities by the respective In-charges.

Day 4 (29th September 2022)

Students of all the four branches had a workshop on Communication Skills conducted by Ms. Jyoti Lewis & Mr. Carlton Fernandes. In the workshop, the students learnt the importance of effective communication and were trained in basic letter writing skills.

In the next hour, the students interacted with the seniors & alumni of the college who shared with them their experiences, success & failure stories.

In the afternoon, the students were given an orientation on the use of Library & e-books by the Librarian Mr. Roland D'Cruz & Library Assistant Ms. Vanessa Fernandes.

Dr. D. S. Vidhya then spoke to them about the NPTEL MOOC courses and the certification through these courses.

Day 5 (30th September 2022)

The day began with a session on "Universal Human Values" by Prof. Selvyn Fernandes in which he highlighted, with practical examples, the difference between the need for physical facilities and right understanding and the need for the latter for harmony in the society.

This was followed by a session on "Time Management" by Counsellor Ms. Elaine Dias in which she gave practical ways of effectively planning their daily schedule and study time.

Counsellor- Ms. Mancia Lobo explained the

mentoring process, its importance and modalities.

Day 6 (03rd October 2022)

The first day of the second week of the orientation programme began with a session on "Attitude & Teamwork" given by Mr. Ramchandra Prabhu Salgaonkar, Founder, Amaze Warriors. Through his interactive audio-visual session Mr. Salgaonkar highlighted the importance of having a positive attitude and the essentials of working in a team.

Students were then taken on a field visit to IPSHEM-ONGC, Betul. The students were shown around the Fire Safety Display Room. Mr. Alok Kumar explained the various types of fire extinguishers and gave the students a hands-on training using them.

Day 7 (04th October 2022)

The day started with a lively and interactive session on Meditation & Yoga conducted by Guru Bharat Gaude from Oorja Wellness Centre, Margao. He demonstrated various breathing & meditative exercises and explained their importance to relieve stress and increase concentration.

This was followed by a talk on Health & Nutrition by Dr. Joline Fernandes, Immunity, Lifestyle & Wellness Consultant. Dr. Joline, in her talk, emphasised that "it is important to eat to be healthy rather than to have a good physique".

In the afternoon session faculty from respective branches showed and explained to the students the various 'Innovative Projects' done by the previous batches of BE students and also the possible future projects in their respective fields.

This was followed by a session on 'Substance Abuse' by Sub-Inspector Ms. Priyanka Sawant from Anti-Narcotics Cell Police Station, Panjim. Ms. Sawant, through a video documentary explained the various types of drugs, the harmful effects of using them, and how to avoid falling prey to drug addiction.

Day 8 (06th October 2022)

In an interesting session, Dr. Vivek Jog from Department of Computer Engineering, enlightened the students about cybercrime & security and told them, with real life examples, about the precautions we need to take while engaging in social media and online transactions.

The next session was by Ms. Poonan Shirsat, Founder Director, The Skill Company. Ms. Shirsat, in her lively session, helped the students to identify problems and challenges in their lives and to "face them with a

smile”.

A scientific calculator is an essential tool for every engineering student and it is equally important to know the proper use of its various functions. Keeping this in mind, a hands-on workshop on the use of scientific calculator was conducted for the FE students in the afternoon session by Dr. Kala Nayak who was assisted by Profs. Saurabh Raikar, Aniket Naik & B.R. Anirudha.

Day 9 (07th October 2022)

In the morning session, Dr. Goretti Simoes e Moraes, Assistant Professor from GR Kare College of Law, Margao, delivered a session on 'Basic Rights & Responsibilities of Citizens'. In her session, Dr. Goretti elaborated “each individual has certain basic rights and it is the responsibility of every other individual to respect these basic rights”. She explained the basic rights enshrined in the Constitution of India.

In the next session on 'Forum for Innovation Incubation Research Entrepreneurship-FiiRE', Mr. Thejus Joseph, Chief Operating Officer, FIIRE, explained the process of Business Idea Startup and Incubation and how a small idea can grow into a successful business model with the support of FiiRE.

In the afternoon, after a short feedback and photo session, faculty from respective departments gave information about their department and laboratories and then took the students for a tour of the college showing them their classrooms, workshops, laboratories and the FiiRE campus.

FE Inaugural Prayer Service

After a two-week Student Induction program, an Inaugural Prayer Service for the newly inducted first year engineering students conducted on October 11, 2022 in the college auditorium. Those present on the dais were Fr. Clive Telles-Provincial, Salesian Province



of Panjim, Fr. Ralin De Souza - Rector, Fr. Kinley D'Cruz- Director, Dr. Neena Panandikar - Principal, Dr. Kala Nayak - Registrar & Head of Department of Science & Humanities . Also present were Fr. Leo Pereira - Administrator, Fr. George Quadros, Heads of Departments of Civil Engineering, Mechanical Engineering, Electronics & Computer Science Engineering and Computer Engineering, Mr. Thejus Joseph, COO of FIIRE, faculty & staff of the college and the entire batch of the newly inducted first year students from the Civil, Mechanical, ECS and Computer branches.

At the outset, a video summarising the two-week induction program was screened. This was followed by the three students reading passages from the Quran, Bhagavad Gita and Bible. A hymn thanking God was then sung by the senior students. On behalf of the first year students and faculty, a prayer seeking God's help was recited by a student and faculty respectively.

The Provincial, Rector, Director, Principal and Registrar along with a first year student then joined in traditional lighting of the lamp marking the inaugural of the new first year batch. All the dignitaries were subsequently welcomed with floral tributes.

The dignitaries were then invited to briefly address the gathering. Dr. Neena Panandikar congratulated the students for choosing our college, highlighted the facilities of the college and motivated the students saying “respect your teachers, respect each other, dream big, work hard and success will be yours”. Fr. Kinley D'Cruz welcomed the Provincial as this was his first visit to the Institute since being installed as the Provincial. Fr. Ralin said “We are all one family each having unique responsibilities which have to be fulfilled to achieve success.” Fr. Clive highlighted the presence of Don Bosco Institutes across the globe and urged the students to be proud of being a 'Boscoite'. He further said “We are all here because of you students, we will not leave you but will always be there for you because we care for you and love you”.

The academic calendar for the odd semester of academic year 2022-23 was then released at the

hands of the Provincial. The program ended with a vote of thanks proposed by Dr. Kala Nayak. Ms. Elaine Dias, Counsellor, compered the program.

Session for FE Mechanical Engineers on Marine Engineer – Career Path



Training and Placement Cell and Department of Science & Humanities organized a session on Marine Engineer: Career Path on October 18, 2022, for First Year Mechanical Engineering Students. The main purpose of the event was to create awareness among students of the opportunities available in Marine Engineering. The resource person Capt. Norbert Rebello began by reminding the audience that Marine Engineering is not an easy job and is not as glamorous as they show on social media. He added that at times they must work in engine rooms with temperatures as high as 45°C and the working hours range from 10 to 12 hours a day. He advised the students who were interested in joining the marine industry to take up placements on campus. Talking from experience he explained that it took him 3 years of applying to every accessible company to finally get a job.

In the Q&A session, one of the many questions asked was, "What work do you have to do as a marine engineer?" He answered saying marine engineers must work with everything from machinery, sewage plant, main engine, cleaning tanks and so on. He also mentioned that he would like to see a change in the attitude of the people working in the shipping industry towards each other. He concluded by saying "Don't study to pass exams, study to gain knowledge". Prof. Harison Cota thanked Capt. Norbert for his time and inputs. The event was organized by Dr. Kala Nayak – Head of Department, Science & Humanities and Ms. Avila Naik - Training and Placement Officer.

Café Session

Café Session was conducted by the Department of Science and Humanities, our college on October 22, 2022. Vaishali Parakhi Assistant Professor of our college delivered a session on topic "Introduction to Geogebra".

She gave an introduction of GeoGebra and demonstrated its dynamic and interactive interface. She made aware that Geogebra is an opensource software, freely available from www.geogebra.org. She further explained that it brings together Geometry, Algebra, Calculus, spread sheets, graphing, statistics and probability applications into a single package. The audience were informed that GeoGebra is available for Windows, mac OS and Linux. GeoGebra has tablet apps for Android, iPad and Windows also. In her session she also demonstrated some of its applications on the GeoGebra interface : drawing in 2D to extend in 3D - for example a pyramid Visualizing the solid obtained by rotation of a polynomial about the x axis, drawing the polynomial in 2D, drawing a connector segment between the x-axis and the function, drawing a circle with the connector segment as radius , using the connector to make the circle move in the 2nd quadrant etc. The session was interactive and useful.

TRAINING AND PLACEMENT

Session on Computer Engineering: Explore the Roles and Technologies

Training and Placement Cell and Department of Science & Humanities organized a session on Computer Engineering: Explore the Roles and



Technologies on October 26, 2022, for First Year Computer Engineering Students. The main purpose of the event was to create awareness among students of the varied roles and technologies prevalent in the industry today in Computer Engineering. The resource person Samuel Crasto, Alumnus, Batch 2019, Computer Engineering & Technical Lead at CITRIX R&D India Pvt. Ltd. narrated his academic journey at Don Bosco College of Engineering. He mentioned; “It is equally important to balance both academics as well as extracurricular activities. What matters is skills developed beyond the curriculum. Those skills are reflected in the resume and are considered by the industry.”

He also mentioned about the various roles that a Computer Engineer can fit in today in the world such as Developer, Support, Design, Management, Administrator, Teaching, etc. He highlighted the importance of doing courses through MOOC, NPTEL, SWAYAM, Coursera, etc. keeping abreast with the industry.

The event was organized by Dr Kala Nayak – Head of Department, Science & Humanities and Ms. Avila Naik-Training and Placement Officer.

SPORTS

CHESS TEAM WINNERS 2022-2023

Mr. Navin Morajkar (TE Comp), Mr. Fondekar Saish Ulhas (BE ETC), Mr. Yash Paul (TE MECH), Mr. Shvesh Sandesh Naik (TE Comp), Mr. Shivam Kholkar (TE MECH) and Mr. Reuben Fernandes (SE MECH) from our college emerged as winners in the Chess Tournament organised at Goa University Jubilee Hall. In all, there were 42 colleges that participated in the event.



Sports News at our college

Students participated in the Swimming, Weight Lifting and Power Lifting inter- collegiate

competitions conducted by Goa University.

Swimming (Men)

The inter- collegiate swimming competition was conducted by Goa University on August 20, 2022 at Sports Authority of Goa Swimming Complex Ponda. In all, there were twelve colleges that participated in the competition. The events that were conducted were 200 meters Freestyle, 100 meters Freestyle, 100 meter Back stroke, 100 meter Breast stroke and 100 meter Butterfly. Lyzander N Gomes (TE Mech) participated in the 100 meter Back and 100 meter Breast stroke. Mayur Ramu Chintle (BE Mech) took part in the 100 meter freestyle.

Weight Lifting (Men)

The inter-collegiate Weight Lifting Championship was held on August 23 & 24, 2022 at University Jubilee Hall, in following weight categories; 1. Up to & Including 55 Kgs. 2. Up to & Including 61 Kgs. 3. Up to & Including 67 Kgs . 4. Up to & Including 73 Kgs. 5. Above 109 Kgs . 6. Up to & Including 81 Kgs. 7. Up to & Including 89 Kgs.. 8. Up to & Including 96 Kgs.. 9. Up to & Including 102 Kgs. 10. Up to & Including 109 Kgs. Aleister Gomes (TE Civil) participated in the Up to & Including 73 Kgs. and secured a **Silver medal**. Pratik P Naik of BE Mech took part in the Up to & including 81 Kgs.

Power Lifting (Men)

The inter-collegiate Power Lifting Championship was held from August 25 - 27 , 2022 at University Jubilee Hall, in the following weight categories; 1. Upto & Incl. 59 kgs. 2 Upto & Incl. 66 kgs 3. Upto & Incl. 74 kgs. 4. Upto & Incl. 83 kgs. 5. Upto & Incl. 93 kgs. 6. Upto & Incl. 105 Kgs.. 7. Upto & Incl. 120 Kgs. 8. Above 120 Kgs. Shane Mendes (TE Mech) ,Wallance Fernandes (TE Civil), and Sahil Desai (TE Civil) participated in the Upto & Incl. 59 kgs. Upto & Incl. 66 kgs , Upto & Incl. 74 kgs, respectively.

NSS

Road Safety Awareness Session

A session on Road Safety Awareness was organized as part of the Road Safety week by the Directorate of Transport, Government of Goa, in association with the Rotary Parivar, Goa, Rotary Club of Margao, and the NSS Unit on October 13, 2022 at our college



The session was conducted by Shri. Dharmesh Angle, Superintendent of Police, Traffic Division (South Goa). Those present for the occasion included Mr. Deep Karapurkar, President of The Rotary Club of Margao, Fr. Kinley D'Cruz, Director of our college, Dr. Neena Panandikar, Principal, Prof. Harison Cota, NSS Program Officer, Prof. Satyesh Kakodkar, Faculty from Civil Engineering Department, NSS Volunteers, students and staff of our college.

At the outset, Prof. Cota welcomed the gathering, followed by Mr. Karapurkar providing an insight and purpose of the session. Mr. Dharmesh Angle in his session said "Awareness on the road is very important for your safety and safety of others". He discussed the statistics of various types of road accidents in Goa and explained the reasons that lead to these accidents. He further gave examples of various types of traffic violations and the penalties associated with them. Mr. Angle urged the audience to come to the help of road accident victims and stated that those who come forward are protected through the Good Samaritan Law. The session was very interactive with the students and faculty asking questions which Mr. Angle answered promptly. At the end of the session Mr. Deep Karapurkar presented a memento to Mr. Angle and Mr. Krish Sharma - NSS volunteer, proposed the vote of thanks. The program was compered by NSS volunteer Ms. Clarita De Souza.

ENTREPRENEURSHIP CELL

Budding Entrepreneurs For E-Cell Members

Our College in association with the Entrepreneurship - Cell (Ecell) organised a one day event on September

10, 2022 called 'Budding Entrepreneurs' which had two sub events namely Analysis Paralysis & Germinate It (a case study & business idea competition for third & second year E-cell students).

In the morning half the event Analysis Paralysis was conducted under the guidance of Prof. Sanjeel Naik & student coordinator Ms. Gauravi Kamat. 8 teams registered for the event. Students presented their case study about different FMCG to two eminent judges – Mr. Rajdutt Kenkre, Mentor at Goa State Innovation Council & Mr. Pradosh Hegde, Managing Director at P B Engineering, Belgaum followed by a Q&A session. Judges shared their valuable feedback with the students. Mr. Pradosh said "students have to make maximum use of such platform to learn and to implement their Ideas" Prof. Amey K. Shet Tilve announced the winners & the event concluded with the vote of thanks proposed by Ms. Nicole Fernandes from second year computer engineering. The first place was bagged by Team Analysis Aces headed by Nicole Fernandes, second place by Team Limitless with Rutvik Vaze as team lead and third place by Team MKS headed by Kezia Fernandes. The event was hosted by Mr. Vadiraj Inamdar (student from TE COMP) & Ms. Shridevi Bharne (student from SE COMP).

In the afternoon session, event Germinate It (Business Idea Competition for second year students) was conducted under the guidance of Prof. Mathilda Colaco & student coordinator Mr. Vadiraj Inamdar. The teams were judged by two eminent judges – Mr. Gourish Bhat, Founder at Gyrono Tech & Mr. Thejas Joseph, COO FiiRE incubation centre. Teams had used different strategies like PowerPoint presentation, front end website, figma tool to present their creative ideas. At the end of the event Mr. Thejas said "germinating an Idea is very important, but along with that making it work also is very important". Prof. Avila announced the winners



of Germinate It & the event concluded with the vote of thanks by Prof. Mathilda Colaco. The first place was bagged by Team Bits & Bytes headed by Jovan Pinto, second place by Team Tech Pirates with Sai Rane as team lead and third place by Team headed by Mathias Fernandes. The event was compered by Mr. Vadiraj Inamdar (student from TE Comp)

E- Cell Field Trip to Atal Incubation Centre & FiiRE

On October 6, 2022, E-CELL student members from our college visited Atal Incubation Center (AIC), at Goa Institute of Management, Sanquelim, Goa, and FiiRE Incubation center, at our college.

At AIC the students were addressed by Mr. Abhishek Singh – Incubation Manager, who introduced how AIC actually works, he discussed about the different successful startups and also about how they work together towards success, he said “present success rate of startups in GIM is 4%”. He explained the importance of pitch in today's market.

He also mentioned about the Incubation centers building a bridge for aspiring entrepreneurs. Next was an introduction to several investors that help out in different fields. Lastly he spoke about the ideation process. The students were addressed by the faculty member from Goa Institute of Management who informed the students about the opportunities they provide and about how they work closely with the government and AIC. Later the students were allowed to explore the GIM campus and witness the work environment; they were allowed to visit the discussion rooms, sitting area, and the workplace. The students could personally discuss this with the people at the incubation center.

Students visited FiiRE (Forum for Innovation Incubation Research And Entrepreneurship), Fatorda, they were welcomed by Miss Ashlesha De Noronha, the community manager. She explained to

them about the several different startups and how this is a great opportunity for the students to talk to people that have worked on their startups with the help of FiiRE. Then the students were allowed to visit the cubicle space where individuals work and witness their work environment.

The students had a great experience and gave very positive feedback about the campuses and the work environments. The students were accompanied by Prof. Satyesh Kakodkar and Prof. Sanjeel Naik

INSTITUTE INNOVATION COUNCIL

Talk on Design Thinking and Innovation by Satyesh Kakodkar



A talk on “Design Thinking and Innovation” was delivered by Mr. Satyesh Kakodkar, Assistant Professor in Civil Engineering Department and Innovation Ambassador , MoE –IIC on 16th August 2022. In his presentation Mr. Satyesh Kakodkar , elaborated the definition of design thinking and explained the different phases of design thinking. Mr Kakodkar , explained how design thinking helps to upgrade the standard of living. While explaining the different phases of design thinking , Mr. Kakodkar spoke about the methods used in each phase and how best the methods can be adopted. Citing different examples , he explained the role of each phase in design thinking and its link to innovation. He also spoke about mind mapping and empathy map.

Talk on “Innovation Prototype Validation – Converting Innovation into startup” by Rajdatta Kenkre

A talk on “Innovation Prototype Validation –Converting Innovation into startup” was delivered by Rajdatta Kenkre on August 27, 2022. In his presentation Mr.Rajdatta Kenkre , elaborated the





definition of Innovation and Prototype. Mr. Rajdatta Kenkre through the ARC diagram explained the challenges in innovation getting converted to prototype. Further he explained how to overcome these challenges.

Mr. Kenkre also explained the attributes of prototype and the process of prototyping. Further he gave the insights of Government schemes to convert Innovation into start-ups. Mr. Satyesh Kakodkar, Assistant Professor in Civil Engineering Department welcomed the gathering and also proposed the vote of thanks.

Session organized by IIC titled 'Demo Day/Exhibition/Poster Presentation of Start-ups developed & linkage with innovation Ambassadors for mentorship support'.

Institution Innovation Council organized a Demo Day/Exhibition/Poster Presentation of Start-ups developed & linkage with Innovation Ambassadors for mentorship support. on September 10, 2022. Around 30 students presented their ideas in terms of projects, power point presentations and videos. The students were mentored on innovation and how the projects and ideas can be used to develop the startup and mentorship support. Many students along with various guests attended the demo day. The various institutions like Directorate of Science and technology (DST), Goa State innovation Council (GSCI) were explained to the students and the process to apply for the same was also explained for mentorship support. The vote of thanks was given by faculty coordinator Mr Sanjeel Naik.

Lean Start-up & Minimum Viable Product/Business – Mentoring Session

“Start-up success can be engineered by following the process, which means it can be learned, which means it can be taught.” – Eric Ries

Don Bosco College of Engineering, Fatorda- Goa is one of the institutes to be selected for establishing

MHRD – Institute Innovation Council (IIC). Ministry of Human Resource Development (MHRD), Govt. of India has established MHRD's Innovation Cell (MIC) (<https://www.mic.gov.in/>) to systematically foster the culture of Innovation amongst all Higher Education Institutions (HEIs) pan India. The primary mandate of MIC is to encourage, inspire and nurture young students by supporting them to work with new ideas while they are in formative years.

As part of the drive, a mentoring session on 'Lean Start-up & Minimum Viable Product/Business – Mentoring Session', was held to enlighten the students in this regard. The session was held on September 21, 2022 at 11.30 am in the Prototyping Lab of Don Bosco College of Engineering. The Resource person invited was Mr. Sudip Faldesai, Project Officer Goa State Innovation Council. The audience comprised of more than 50 students of Don Bosco College of Engineering. Also present was, Dr. Suraj Marathe, President – IIC DBCE and Associate Professor, Mechanical Department of Don Bosco College of Engineering.

Dr Suraj Marathe hosted the session by introducing DBCE – IIC and presented an overview of the various functions and activities carried out by it and how students can utilise these activities towards innovation and start-ups. Mr. Sudip, the resource person of the session, was delighted to share his experience in this regard and said, “Lean start-up is an approach to building new ideas based on self-belief that entrepreneurs must test and iterate as they develop products”. He also went on to explain the five principles of lean start-ups. He also stressed on the fact that Lean Start-up provides a scientific approach to creating and managing start-ups and get a desired product to customers' hands faster.

The event was very well received by all, and students had an opportunity to learn about Lean Start-up along with understanding the fact that Starting Lean is today's best practice for innovators.

DHRISHNI - WOMEN'S CELL

Yoga and Meditation



DHRISHNI – Women's cell organized a session on “Yoga and Meditation ” on September 12, 2022 for the faculty members of Don Bosco College of Engineering. The main objective of the event was to create awareness of physical exercise, breath control, relaxation, diet and positive thinking. Meditation aimed at developing harmony in the body, mind and environment.

The faculty co-ordinators of the event were Dr, Kala Nayak, Mrs. Vaishali Parakhi and Mrs. Trima Piedade Fernandes e Fizardo. Mrs. Vaishali Parakhi introduced the Speaker, Dr.Sneha Bhagwat, Ayurveda and Panchakarma specialist and founder of Oorja Wellness Center.

The session commenced with a brief understanding of benefits of yoga and meditation. She emphasized on how changing lifestyle with a suitable diet, meditation and yoga can prevent health problems. It was followed by a yoga session conducted by Guru Bharat Gaude. He demonstrated a combination of poses and breathing exercises that help to de-stress in day to day life. The session was very enlightening and full of energy. The session concluded with the vote of thanks proposed by Mrs. Trima Piedade Fernandes e Fizardo

MOU Signing And Installation Of CII-IWN DBCE Students Chapter

The MOU Signing and Installation ceremony of the CII IWN DBCE Students Chapter was held on September 19, 2022 at Don Bosco College of Engineering(DBCE). The compere for the day was Ms. Clarita De Souza.

The Dignitaries present for the day were Director - Rev Fr. Kinley D'Cruz, Principal - Dr Neena Panandikar, Chairperson of CII IWN, Goa Chapter - Ms. Sheetal Pai Kane , Executive Officer, CII Goa office - Mr Fernando Silva , Sales Consultant and Writer - Sonia Kuncalienkar and the Faculty coordinator of CII IWN DBCE Students Chapter - Prof. Melba D'souza. They were welcomed with flowers followed by lighting of the lamp.

A brief history of CII IWN (Confederation of Indian Industry Indian Women Network) was given by the compere, which was followed by signing of the MOU. Addressing the gathering, Dr. Neena Panandikar welcomed the Chief Guest and the other dignitaries present. She expressed her delight in establishing the new CII-IWN students chapter of DBCE. She informed the crowd that this is the first Students Chapter of CII-IWN in Goa. Her enthusiasm was evident as she spoke about this Chapter being a way for women to grow as career women.

The council of the CII IWN DBCE Students Chapter was then inducted, the members of which are: Chairperson: Ms. Marisa Barreto, Vice Chairperson: Ms. Angel Rodrigues, Student President: Ms Sachi Bokade, Student Secretary: Ms Kezia Fernandes. The Principal bestowed upon them their badges followed by the oath taking ceremony and welcoming of the council members with flowers which was presented by Ms Sheetal Pai Kane..

Rev. Fr. Kinley D'Cruz then addressed the students. He congratulated the newly inducted council and the student members of the Chapter. He put across the property of waves, that when two waves constructively interfere their amplitude is doubled. He gave an analogy with the aforementioned and this new students Chapter. He said, “when minds with



brilliant ideas come together, the impact will be two fold". He stated that the synergy will yield great achievements. He concluded with the words "Girls with dreams become women with vision".

Ms. Rachel Fernandes introduced the Chairperson of CII IWN - Ms. Sheetal Pai Kane. Following this, Ms. Sheetal addressed the gathering. She stressed on three key aspects that are the incentives behind the IWN Students Chapter; Inspire, Equip and Empower. She encouraged the members to inspire, aid and empower the young minds they come across. She concluded by wishing the members good luck on the new journey they embark on.

The vote of thanks was proposed by the Secretary, Ms Kezia Fernandes. The event was successfully conducted by the collective effort of the Principal, Faculty-in-charge, student council and members of the CII-IWN DBCE Chapter.

FiiRE

(Forum for Innovation Incubation Research and Entrepreneurship)

Director, Department of Science and Technology visits FiiRE Goa

Shri. Praveen Roy, Scientist and Director, Department of Science and Technology Government of India visited the FiiRE Goa incubation center on 04 Oct 2022 to get a sense of the startup ecosystem setup.

He also visited FiiRE Goa's Design Center, prototyping lab, and Coworking Space - FiiREWork and interacted with various startups working from FiiRE Goa. Shri Praveen Roy stated "Everything that FiiRE is doing has great impact - from providing support to entrepreneurs with innovative ideas, to helping startups raise funds, to helping them take their product/service to the market. This is what is expected in academic centres so that students can take their ideas to next level. Things are being implemented in professional way which is benefitting both students and society."

Visit by Indian ARMY personnel

Brigadier AS Sawhney of the Indian Army visited FiiRE Goa on 28 Sep, 2022, along with his team to get a sense of the startup ecosystem at FiiRE Goa

World Tourism Contest (27 September 2022)

As part of the global celebrations of World Tourism Day, with the theme "Rethinking Tourism", FiiRE Goa announced a reel contest for students. The contest aimed to bring the student community closer to the startup ecosystem at FiiRE and encourage regular interactions with the students through engagement that is relevant to youth. This Insta Reel contest encourages students in the 17-22 age group to depict Goa as an ideal tourist destination, thus ensuring that youth understand the need for sustainable practices and clean green tourism.

Strengthening the FiiRE proposition with Partnerships & Collaborations

- MOU signed with S.S. Dempo College of Commerce & Economics
- MOU signed with National Bank for Agriculture and Rural Development for receiving grant assistance under Gramya Vikas Nidhi
- MOU signed with Rajesh Ghadge, of Goa Prism to support and facilitate FiiRE's initiative in propelling Tourism Tech in Goa
- Partnership announced with 'Entrepreneurship Sports Generation (ESG)', a global sportified entrepreneurship tournament, an initiative of The Global Education & Leadership Foundation (tGELF).

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