



# Connections

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

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## NEWS IN GENERAL

### Installation Ceremony of the DBCE Student Council 2022-23



Our college strives to inculcate a sense of responsibility and commitment among the students with their heads held high, ready to shoulder responsibilities as leaders. An installation ceremony was organized on November 21, 2022 for the newly elected student council members for the academic year 2022-23. It was a proud moment for the elected students being invested with great responsibility while embarking on a new journey as leaders.

Those present on the occasion were Director - Rev. Fr. Kinley D'Cruz, Principal - Dr. Neena Panandikar, Registrar - Dr. Kala Nayak, the Heads of the Departments, Students council faculty co-ordinator - Mr. Harison Cota, the cultural, sports & magazine in charges and the newly elected student council members.

At the outset, Dr. Neena Panandikar welcomed the gathering and congratulated the student council members and wished them the very best as leaders. She urged the council members to read the students council guidelines handbook and to abide by the rules.

Rev. Fr. Kinley D'Cruz in his message to the council members said "You have a very important role to play, play a positive role." He further told them to strive hard to ensure that there is maximum participation of students in all events.

The student council members then received their prestigious badges at the hands of the Director and Principal. They were administered the oath by the Registrar, where they pledged to work earnestly and

uphold the honor and glory of the institution.

The Cultural Secretary, Mr. Johan Araujo, the Sports Secretary Mr. Lyzander Gomes and the Magazine Secretary, Ms. Sachi Bokade gave a brief overview of the tentative plan for the year 2022-23.

The General Secretary Mr. Jason Rodrigues proposed the Vote of Thanks.

### "Interactive Session with Successful Women"

An "Interactive Session with Successful Women" was organized by CII IWN DBCE Students' Chapter on 28<sup>th</sup> November 2022. The Resource persons for the event were Ms. Swati Salgaocar, Chairperson, CII Goa State Council & President, V M Salgaocar & Bro. P. Ltd. and Ms. Sangeetha Naik, Chair, Masoom, Yi Goa chapter and Senior Associate, Cognizant.

The event was also graced by the presence of Director Rev. Fr. Kinley D'Cruz, Principal Dr. Neena Panandikar, CII IWN Chairperson Ms. Sheetal Pai Kane, CII IWN CO-Chair Ms. Sonia Kuncalienkar, CII Executive officer Mr. Fernando Da Silva and CII- IWN DBCE Student's Chapter Faculty coordinator Ms. Melba D'Souza. The Compere for the day was Ms. Clarita De Souza.



The session commenced by welcoming the dignitaries with flowers followed by a brief introduction about CII IWN and CII IWN DBCE students' chapter by Ms. Sheetal Pai Kane.

The resource persons Ms. Swati Salgaocar and Ms. Sangeetha Naik were introduced by Ms. Angel Rodrigues and Ms. Marisa Barreto.

Ms. Swati Salgaocar addressed the gathering and

informed the students about her experience and challenges faced in her career. She gave an insightful explanation about how the industry driven world works today and how we need to work on our skills and work as per the needs of the industry.

Ms. Sangeetha Naik spoke about the different sectors she worked in and about her experiences in working in TCS, in Germany, Singapore, London, Mumbai and Pune. She spoke about the importance of work ethics and to balance personal and work life, and to do everything to best of our capability with passion. This was followed by an interactive session with the CII-IWN student members, where they posed several questions which helped them to understand the functionality in the present Industrial business world.

The session was truly informative and very engaging and helped the students immensely in making further choices in their career. The event concluded with a vote thanks delivered by Ms. Kezia Fernandes.

## **NPTEL Orientation Program for Second/Third Year Students** **Department of Civil Engineering**

NPTEL Orientation Program for Second Year Students was conducted on January 13, 2023 via online mode by Prof. Swaroopa Sail, Assistant Professor, Department of Civil Engineering. Students were introduced to the list of courses being offered by NPTEL, how the courses are conducted, number of assignments to be answered, duration of each course, evaluation criteria, exam details. They were guided on how to enroll for the courses, types of certificates offered by NPTEL, domain courses and



domain certificate etc. Students were explained to about the credit courses offered by the Department to be chosen to earn 20 credits by the end of the eighth semester. The instructions while choosing the credit courses and advantages of enrolling for those were also shared. Students were informed that they will receive BE with honours certificate from reputed institutions like IIT and IISC after completion of credit courses and domain certificates if they specialize in areas like Construction Materials Technology, Structural Analysis, Structural Design and Environment.

## **The Department of Electronics & Telecommunication Engineering**



The Department of Electronics and Computer science [Formerly known as Electronics & Telecommunication Engineering] conducted NPTEL awareness program for second and third year students on January 13, 2023. The awareness program was conducted through online mode (Google meet). The program covered how to enroll for courses and how to use NPTEL SWAYAM Portal in detail. The importance of domain certification, NPTEL Stars, benefits of fee waiver and exam registration was discussed. Second, third and final year students were given an overview regarding credit courses and MOOC courses. The Awareness program was coordinated by Dr. Vidhya D. S, NPTEL SPOC. The importance and benefits of credit course, MOOC courses, honor degree was explained and also how to choose courses from the credit course list.

Dr. Vidhya NPTEL SPOC highlighted the benefits of taking NPTEL courses. Students were given an idea regarding NPTEL Certificates, fee waiver benefit for

SC, ST and low-income students. Dr. Vidhya also discussed the importance of Domain courses and mentor. NPTEL course Registration & Exam enrolment form video was shared with the students.

## Department of Mechanical Engineering



The Department of Mechanical Engineering conducted an online orientation program for its Second Year and Third Year students to create awareness regarding the NPTEL courses. The orientation was conducted on January 13, 2023. The third year students were advised to complete a 12 week course to achieve the mandatory 3 credits required for them and were also told about BE(Honors degree) which requires additional 20 Credits which can be completed from the NPTEL Courses approved by Goa University . The second year students were also briefed regarding the same along with the Major and Minor degree requirements which will commence from this academic year for the SE Students. The students were also made aware about NPTEL registration and exam form filling. The session was delivered by Asst. Professor Sanjeel Naik who is also the department NPTEL Coordinator.

## NPTEL Awareness Program 2023 for First Year Students

A NPTEL awareness program was conducted for the students of First year ECS, Computer Engineering, Mechanical Engineering and Civil engineering on 19<sup>th</sup> and 20<sup>th</sup> January 2023. 160 students attended the session. The session was conducted by Mrs. Vaishali Parakhi (NPTEL coordinator for Department of Science & Humanities)

She explained to the students the procedure to enroll for NPTEL courses and fill examination forms as well as the timeline for January 2023. Students were given an idea regarding NPTEL Certificates, fee waiver benefit for SC, ST and low-income students. The importance of Domain courses, mentor, NPTEL Stars was also conveyed to the students .Students were made aware that the lecture notes of some courses are also available in regional languages like Marathi, Bangali, Hindi, Gujarati, Kannad, Malayalam, Tamil, Telugu etc.

Mrs. Vaishali Parakhi encouraged the students to strengthen their learning and career paths by joining the online courses and stated how today's digital era can provide education to every mind that wishes to learn and grow.



## 61<sup>st</sup> Liberation Day

On the memorable day of 19th December 1961, the state of Goa dawned to the greatest victory of freedom from the hands of the Portuguese rule, paving the path for a brighter and more promising future. To mark this glorious triumph, our College celebrated the 61st Liberation Day with great zeal on 19th December 2022 at the college premises with staff and NSS Student volunteers in attendance.

Mr. Dattaprasad Borkar, Ex – Principal Chief Engineer, PWD-Goa was the chief guest for the function. Among the dignitaries present were Rector, Rev. Fr. Ralin D'Souza, Director, Rev. Fr. Kinley D'Cruz, Administrator Rev. Fr. Leo Pereira, Principal, Dr. Neena Panandikar, Registrar Dr. Kala Nayak. Floral bouquets were presented over to all the dignitaries as a welcome gesture.



Sports Officer, Dr. Avertano Barreto gave the commands and the flag was unfurled at the hands of the Chief Guest, after which the National Anthem was patriotically sung by all. Director, Rev. Fr. Kinley D'Cruz addressed the gathering and welcomed the Chief Guest. In his speech the Chief Guest, reminisced “the indomitable spirit of our freedom fighters should not be forgotten, they are the heroes of the splendid victory of freedom”.

Principal, Dr Neena Panandikar presented a memento to the Chief Guest. Mr. Tanay Rege, Assistant Professor, proposed the Vote of Thanks and expressed gratitude to the management and to all the teaching and non-teaching staff who helped in the smooth conduct of the event.

## Republic Day

74<sup>th</sup> Republic Day of India in the college premises was celebrated on January 26, 2023. The ceremony started at 9.00 am in the presence of the Director – Rev. Fr. Kinley D'Cruz, who unfurled the National Flag. The staff members and students of our college



sang the National Anthem and showed their respect to the national flag and to the whole nation.

The ceremony was held in the presence of Rector – Rev. Fr. Ralin De Souza, Principal - Dr. Neena Panandikar Administrator – Rev. Fr. Leo Pareira, Registrar– Dr. Kala Nayak and CEO FiIRE - Mr. D.S. Prashant. Dr. Neena Panandikar welcomed the gathering and wished everyone a happy Republic. Rev. Fr. Kinley D'Cruz in his address mentioned “We should keep the integrity of our richest constitution and abide by the same”. The function was coordinated by Ryan Pereira, Director of Physical Education & Sports of our College.

## Lightning Talk Series 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. Further initiating an attempt to strengthen both entities by finding ways of combining their complementary resources and strengths, the Lightning Talk Series was organized in collaboration with the Binghamton University.

The first talk under this series was by Dr. Hiroki Sayama, Professor, Department of Systems Science and Industrial Engineering, and the Director of the Center for Collective Dynamics of Complex Systems (CoCo), at Binghamton University, State University of New York, USA on the topic 'Overview of Artificial Intelligence and Machine Learning'.

Avila Naik, Liaison Officer – DBCE and Binghamton and Training & Placement Officer, DBCE introduced Dr. Hiroki Sayama to the participants. In the first session on 'Basics of Artificial Intelligence and Machine Intelligence – Historical Background and Current Developments', Prof. Sayama spoke about the origin of Artificial Intelligence, Turing Machine and Turing Test, Modern Artificial Neural Networks, Cybernetics, AI Winters, Relevance of Statistics and Data Analytics, Regression, Optimization, Machine Learning, Artificial Neural Networks, Deep Learning, etc. He mentioned, “Don't get drowned in the vast

ocean of methods and tools. Buzzwords and fads keep changing.”

In the second session on 'Limitations of Current AI/ML and what are needed for today's complex problem solving' he spoke about Mechanistic Modeling of Complex Social Systems, Models in Data Science and AI and presented two case studies on COVID-19 Response Planning; and Exploration of Society: As-It-Could-Be. He concluded by saying, “Science needs Pattern Discovery and Mechanistic Modelling and we need to educate people on both.”

In the third session on Binghamton University and the Department of Systems Science and Industrial Engineering, he mentioned, “Systems thinking, and problem-solving skills will be an invaluable asset when you blaze a new trail in any scientific, engineering, business, or management profession, within today's increasingly complex world.”

In the Q&A session, there were a lot of questions put forward by the students, staff, and other participants. The talk ended with Ms. Avila proposing a vote of thanks to the speaker, management, staff, students, and participants. Fr. Kinley D'Cruz, Director, DBCE presented Prof. Sayama with a memento as a token of appreciation. Dr. Neena Panandikar expressed contentment over the success of this event.

## DEPARTMENT OF CIVIL ENGINEERING

### Field visit to Zuari Bridge

Field visit is an important part of education for engineers. It aids to interlink the facts with the practical field. Students get an exposure to the site environment and learn about the standards accepted in market.

On November 8, 2022 a site visit was conducted to Manohar Setu also known as Zuari Bridge by Prof. Satyesh Kakodkar and Prof. Jonessa Ferrao. A total of 58 students visited the site.



Zuari cable stayed bridge is a high demand project as the existing bridge across Zuari River connecting Panjim and Margao does not cater to heavy vehicle movements due to its poor condition. The Zuari cable stayed bridge is 640m long with central navigational span of 360m and end span on both sides of 140m. This makes the bridge the 2<sup>nd</sup> longest and widest cable stay bridge in India.

Mr. Deogonda Patil, Deputy Project Manager of Dilip Buildcon Limited informed the students about the project. He explained about the pre stressing of the cable in the bridge. The students witnessed the laying of Bitumen coat of 70mm which was compacted to 50 mm.

### Mix Design Workshop for Third and Final Year Students

Two days concrete mix design workshop was organized by Civil Engineering Department in collaboration with Civil Engineering Students Association (CESA). The event started with a welcome to all the students, faculty members and JSW officials.

Er. Trivikram Shenvi Spoke about the JSW products available for construction industry and also explained to the students about the application of each in detail.

In session II Prof. Shruti Jambhale and Prof Nadya Baracho gave a talk on mix design for concrete according to IS 10262 (2019) and also solved a numerical based on Indian standard course.

In the afternoon session Third year students were given hands on experience on conducting mix design

trials and casting of cubes for tests.

On 26<sup>th</sup> November Final year students conducted mix design trials for M30 grade of concrete in Concrete Technology Lab. The workshop was organized by Mr. Sahil Patil (Chairman) and Mr. Shahid Shaikh (Secretary) from CESA.

## Installation of Youth Forum Indian Water Works Association

Installation of Youth Forum Indian Water Works association (YFW) was held on November 29, 2022 by Indian Water Works Association (IWWA) Goa. It was held under the guidance of Prof. Satyesh Kakodkar (secretary IWWA Goa) and Prof. Prachi Dessai (Faculty Coordinator). The installation ceremony started with a welcome address by Dr. Shwetha Prasanna (Head of Civil Engineering Dept.) who stressed on the importance and benefits of such student associations. Dr. Neena S.P. Panandikar (Principal - of our college) addressed the gathering showing her support towards the future of YFW. Rev. Fr. Kinley D'Cruz (Director - of our college) spoke about the importance of water conservation and the need to create awareness amongst the youth on possible water shortage in the future. The installation ceremony of Youth Forum for Water (YFW) then took place where the student members were presented with certificates and badges were pinned by Shri. Arvind Patil (Ex. Chief Engineer & Ex. MD. Sewerage Corporation), Er. Virkumar Sawant (Chairman – IWWA Goa) and Er. Jayant Ambikar (Sr. Engineer). Mr. Kartik Shinde (Chairman – Youth Forum DBCE) thanked the members for electing him and gave a brief overview of the tentative activities planned under his chairmanship.

The Chief Guest for the function Er. Virkumar Sawant



(Chairman – IWWA Goa) shared his valuable knowledge and his experience in the field of water supply. Er. Jayant Ambikar (Sr. Engineer) who was the Guest speaker for the day shared a presentation with the students on Contract Management. Shri. Arvind Patil shared knowledge and experience with the students wishing them the best. Mr. Raylan Palmeira (Secretary – Youth Forum DBCE) proposed the vote of thanks. The event was then followed by an interactive session with the student members and IWWA Goa Chairman, Secretary and Youth Coordinator Goa centre.

## Project Competition



The Department of Civil Engineering organized mini project competition for second year Civil Engineering students on 17<sup>th</sup> December 2022. Students made models to explain concepts related to fluid mechanics. The projects were judged based on concept, content delivery, model design & presentation skills. Prof. Avil D'sa and Prof. Sharad Shanbagh were the judges.

## DEPARTMENT OF MECHANICAL ENGINEERING

### AUTOCAD Session- II conducted under Beyond Curriculum Activity for FE Mech

The department of Mechanical Engineering organized a half day session on “Introduction to AUTOCAD” Session-II for the first year Mechanical Engineering students on 10<sup>th</sup> December 2022 from 2.00-4.00pm in the Mechanical CAD lab.



The resource persons were in-house faculty members from Mechanical Department, Prof. Saurabh Raikar and Prof. Sanjeel Naik.

Prof. Sanjeel Naik and Prof. Saurabh Raikar delivered a session on “Drawing using AutoCAD” where the students were given hands on practice to use different commands and prepare the 2-D drawings, the Graphical User Interface and basic drawing, dimensioning and clipping commands. They practiced with simple 2 D engineering objects. 31 students attended the session. Mr. Diptesh Naik, Lab assistant assisted the resource persons for the smooth conduction of the session.

The workshop was coordinated by Prof. Sharad Shanbhag with constant support and guidance from Dr. Kala Nayak, Professor & Head of Department of Science & Humanities, Registrar, Prof. Harison Cota, Assistant Professor – Deputy Head of Science & Humanities Department and Prof. Ajit Salunke; HOD – Mechanical Department.

## NPTEL appreciation certificates

Mr. Sharad M Shanbhag, Assistant Professor from Mechanical Engineering Department of our college received two certificates of appreciation from National Programme on Technology Enhanced Learning (NPTEL). NPTEL is a project of MHRD initiated by seven Indian Institutes of Technology (Bombay, Delhi, Kanpur, Kharagpur, Madras, Guwahati and Roorkee) along with the Indian Institute of Science, Bangalore in 2003, to provide quality education to anyone interested in learning from the IITs.

One of the appreciation certificate was awarded for being recognized as 'NPTEL MOTIVATED LEARNER' for completing 9 technical courses offered by various IIT's in 4 consecutive semesters (Jan 2021, July 2021, Jan 2022, July 2022). He has taken up courses like Applied Thermodynamics (12 week), Power Plant Engineering (8 week), Refrigeration and Air-conditioning (8 week), IC Engines and Gas Turbines (12 week), Manufacturing Automation (4 week), Energy Conservation and Waste heat recovery (12 week), Product Design and Development (4 week), Non-Conventional Energy Resources (12 week) and Theory and Practice of Nondestructive Testing (8 week).

Out of these 9 courses he was among the 5% topper in 3 courses with ELITE+ Gold and LITE+ Silver certificate, among 2% topper in 1 course with ELITE certificate, among 1% topper in one course with ELITE+ Gold certificate and topper in 2 courses with ELITE+ Gold and ELITE+ Silver certificate. The other 2 courses he has completed with ELITE certificate. He has completed 10 NPTEL courses in all in the past 3 years.

The other certificate of appreciation was awarded for being recognized as 'NPTEL DISCIPLINE STAR' for completing max 60 weeks of learning duration in Mechanical Engineering discipline in 3 consecutive semesters (July 2021, Jan 2022, July 2022). Out of the 10 courses that he has completed 7 courses were from the Mechanical discipline and the other 3 courses were from the other discipline. Till now he has completed 92 weeks of learning duration by taking in to account the duration of all 10 courses.

As a token of respect and appreciation for his hard work and dedication towards learning he will be given a free NPTEL Star T-shirt as informed by the concerned NPTEL department.

He would like to thank the college director Rev. Fr. Kinley D'Cruz, Dr.





Neena Panandikar, Principal Prof. Ajit Salunke, Head of Mechanical Department for their continuous support and for creating a positive learning environment in the college which helped him to achieve this milestone.

## DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

### Workshop on Robotics



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

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

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

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

The main topic for the day was building a Line Follower Robot. After explaining the concept of working of the Line Follower Robot along with PPTs and videos, it's operation was also demonstrated to the students, where all the students saw and learnt how the Robot actually works. Details about the components used were explained along with their functions. After the live demonstration of the Line Follower Bot, the working to the Microcontroller (Arduino Uno), motors, motor drivers, sensors and the codes of the Arduino IDE software were also explained.

Thereafter, four teams were formed and a Team Leader for each team was appointed. The Participants were told to discuss their common free



slots so that they could meet further in groups and carry on their study and work. They were asked to get familiar on Arduino Uno and a YouTube playlist defining some basic tasks was given to them to get started.

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

## Workshop on “Electronics Simulation using TinkerCAD Circuits”



As a part of the National Skills Qualification Framework (NSQF) through Goa Samagra Shiksha Abhiyan, 2nd Lt. J. J. Rane Government High School, Kudchire organized a workshop on "Electronics Simulation using TinkerCAD Circuits" in association with the IEEE Student branch of our college on 13th December 2022. The main objective of the workshop was to provide a way for students to design and simulate electronic circuits without the need for physical components.

Prof. Yeshudas Muttu commenced the session by introducing what simulation is by giving some real life examples. Next, he discussed the difference between hardware & software followed by an in-depth explanation on why software matters in electronics. Further, he introduced the students to a variety of electronics simulators and explained how TinkerCAD can be useful, especially to beginners.

The session was carried forward by IEEE student member Mr. Benson Fernandes who began by introducing the students to the basics of TinkerCad platform and demonstrated the construction of basic circuits. All the students were also given hands-on practice on the software. Mr. Benson also simulated some day-to-day circuits to highlight the importance of TinkerCad Platform. The workshop was technically sponsored by IEEE WIE Bombay Section Affinity Group.

## Prof. Yeshudas Muttu bags DBHEI National Award 2022

Don Bosco Higher Education India (DBHEI) is a body set up by the Salesian Provincial Conference of South Asia (SPCSA) for reflection, sharing and coordination among those involved in the youth ministry in Don Bosco institutions of Higher Education.

The main objective of DBHEI Faculty award is to encourage teachers and teacher educators to try out innovative ideas and practices for improvement of teaching, learning and evaluation using modern pedagogies and ICT. For the effort put forth towards students, Prof. Yeshudas Muttu was presented the National Award for Innovative Practices in Teaching Learning Evaluation (TLE) 2022 at the hands of Dr. Michal Vojtas SDB – Professor, Salesian Pontifical University, Rome and Fr. Januarius Sangma SDB – Provincial Incharge of Higher Education, DBHEI at the



All India Don Bosco Education Society IUS South Asia Continental Conference and Workshop 2022, Citadel, Salesian Provincial House, Chennai. He introduced new strategies/ modified methods for improvement of teaching learning process.

The Task-based learning, WhatsApp Learning, Circuit designing through industry oriented software, Professional documentation were the few innovative teaching practices implemented by Prof. Yeshudas Muttu.

## DEPARTMENT OF COMPUTER ENGINEERING

### INSPIRUS 2K22

Our College in association with the C-Codes Council nurtured by the Department of Computer Engineering- DBCE, organized the 6<sup>th</sup> Edition of INSPIRUS 2K22-MAKE IT HAPPEN. The event was held on November 3-4, 2022 in the campus of our college.

The event comprised of both technical and non-technical events with massive participation from students of various technical and non-technical colleges and higher secondary institutions across the country. There were a wide range of events organized namely: Inspirathon (hackathon), Code Wars, CodePlay, ExQuizite, Jigsaw Coding, Retrieval Sages, Mind Games, Framed, Incarnate, Reel it, Feel It!, Drop the Beat and Leisure Lounge. Additionally, a

workshop, 'MasterClass' which was an interactive session between resource persons and faculty on interesting topics related to teaching and computer technology was also organized for faculty and



students. Students participated in the above events on a massive scale marking 506 total participations and 389 offline participations.

The inaugural ceremony commenced with the lighting of lamp by a group of dignitaries where the Chief guest for the inaugural function was Dr. Ajit Parulekar. The other dignitaries included, Director - Rev. Fr. Kinley D'Cruz, Principal - Dr. Neena S. P. Panandikar, Head of department of Computer Engineering - Dr. Gaurang Patkar, Chairperson of C-Codes - Aryan Kotru as well as the faculty members.

The C-Codes council (2022-23) took an oath of office, promising to abide by their duties to the fullest of their abilities. The distinction holders of batch 2018-2022 were felicitated with a medal and a certificate. In the end, Prof. Merwyn D'Souza delivered the vote of thanks to all. He thanked all the invited guests and participants for gracing the occasion by their solemn presence.

The Valedictory event was held to mark the end of INSPIRUS 2K22, the Chief Guest for the event was Mr. Vivek Gujral, Founder and CTO of OneShield Software. The event began with the display of marvelous content created by participants of Framed-The photography competition and 'Reel It, Feel It!'-The reel making competition which was followed by the speech given by Mr. Vivek Gujral.

Mr. Vivek Gujral enlightened the students, with regards to pursuing one's goals with passion and always learning about various subjects from various fields, implementation of said learned concepts with technology and pushing forward and providing solutions to problems in various fields with the help of acquired knowledge. Mr. Gujral said "The only

constant in the technology industry is change.”

Further, the report for INSPIRUS 2K22 was read by Dr. Gaurang Patkar which was followed by the prize distribution ceremony which marked the end of INSPIRUS 2K22.

## INSPIRATHON-2022

The main highlight of Inspirus 2K22 was a 24-hour non-stop Full Stack Hackathon “INSPIRATHON”. It was held for the 4<sup>th</sup> time in Goa. The event was supported by Spintly.

The hackathon began on November 3, 2022 at 12 pm and ran continuously for 24 hours until 12 pm on November 4, 2022. The organizing team received a huge response for the registrations, from participants all over the state of Goa. A total of 14 teams registered for the hackathon. There were a total of 21 problem statements to choose from. The problem statements were released one day prior to the event and each team had to choose a unique problem statement. The participants were from various engineering colleges and polytechnic colleges.

The hackathon served as a great platform for the organizers as well as the participants to network and cultivate connections. The judges for the 4<sup>th</sup> edition of Inspirathon were Mr. Saurabh Kanekar from Persistent Systems and Mr. Malcolm Dsouza; Co-founder and CTO from Spintly.

The participating teams were told to upload their work on Github for the judges to evaluate. The teams



then had to present their solutions to the judges through presentations and demos whereby they were judged on complexity of the solution, completion, innovation, presentation, execution and the solution itself.

After the judging round the participants gave their feedback on attending the 24-hour hackathon. The teams commended the organising team for organising the hackathon well and they also expressed their desire to attend the hackathon for the next edition of Inspirus.

The 1<sup>st</sup> place was bagged by team God Speed from Goa College of Engineering, members were Amisha Naik, Georgey VB and Saif Farooqi. Team A3 secured the 2<sup>nd</sup> place from Goa College of Engineering; members were Atharva Parkhe, Amit Balekundar and Azvern Dias. 3<sup>rd</sup> place went to team Code\_Speaks\_For\_Itself from NIT-Goa; members were Zubin Shah, Rahul Jalan and Niranjana Hebli.

The Faculty Coordinators for the event were Prof. Merwyn D'Souza, Prof. Amey Tilve and Prof. Mithil Parab. The student coordinators were Pratham Shah, Sanketh Shenoy, Manohar Gaunekar, Abhishek Kudalkar, Idwal Dias, Jason Rodrigues, Rudra Kande, Shannon D'silva, Rutvik Vaze, Ved Kerkar, Glory D'Cruz, Kezia Fernandes, Ruchi Bokade, Khizer Ahmed Khan, Rhys Rodrigues. Both the faculty and student coordinators worked hand in hand tirelessly to make this event a grand success.

## AVINYA 2022

On December 2, 2022, E-cell members of our College organized an event 'Avinya' that had a tagline “where passion meets ambition”. As the name itself suggests 'Avinya' which means 'innovation' this event entirely focused on bringing out the inner entrepreneurs from the minds of our youth and to give them a platform to share their unique and innovative ideas which would contribute to shape them into future entrepreneurs

Our honorable chief guest 'Mr. Ramrao S.Wagh', Director 'Fr. Kinley D'Cruz', Principal 'Dr. Neena Panandikar', Registrar & HOD of science and



humanities department Dr. Kala Nayak, Entrepreneurship cell convenor 'Prof. Amey K. Shet Tilve' and E-cell chairman Mr. Shubham Tendulkar were on hand to open and inaugurate Avinya 1.0. Mr. Ramrao S. Wagh is an Associate Professor of Computer Science & Technology, Goa University. He urged the students saying “try to solve the problems which are related to society or industry, and also don't sell your startup to larger organization rather try to grow it to larger scale”. There were events like Pitch it, BizzWizz, Brand Wave, Eureka and Business to Brand. The enthusiasm among the participants was fascinating.

Pitch It – was judged by Judged by Mr. Abhishek Singh, Mr. Vikrant Karandikar and Mr. Mudit Agarwal. Eureka was judged by Judged by Mr. Debasis Doki, Ms. Kanan Tandi. BrandWave was judged by Judged by Mr. Rajay Naik, Mr. Prasad Deshpande. Business to brand was judged by Judged by Mr. Venugopal, Mrs. Rina Barreto.

All the events were perfectly executed, which gave exposure to all the young entrepreneurs, participating and non participating, and gave platform to showcase their inner talents. Overall, this was an eventful happening and a great success.

For the valedictory function, honourable chief guest for the function were Mr. Abhishek Prabudha, Founder and CEO Addup Networks Pvt. Ltd. Mr. Abhishek Prabudha addressed the gathering and



highlighted “the three aspects that are required for entrepreneur are Integrity, Courage and Handling failures which are required to be a successful entrepreneur”.

The event helped more the 300 participants to showcase their inner entrepreneurship. The valedictory function concluded by giving away the prizes to the winners.

The E- cell convenor Prof. Amey K. Shet Tilve, faculty coordinators Prof. Satyesh Kakodkar, Prof. Sanjeel Naik, Prof. Mathilda Colaco and Dr. Shreyas Simu, E-cell chairman Mr. Shubham Tendulkar, secretary Mr. Vadiraj Inamdar and treasurer Ms. Gauravi Kamat, executive coordinators Mr. Nikhil Rao, Mr. Pranav Naik, Mr. Jovan Pinto, Mr. Krish Sharma and Mr. Prathamesh Chandgadkar, took the initiative and organised this event.

The report was compiled by Ms. Vanshika Gupta, an FE-ECS student.

## SCIENCE AND HUMANITIES

### SEEDS 2022

The Department of Science and Humanities inaugural function of SEEDS- 'Stairway towards Empowering Engineering Dreams to Success' on November 22, 2022. The theme selected for the year was 'Engineering your way to a healthy mind and body'.

At the dais were seated the Chief Guest - Dr. Ashwini Panandiker, Principal-Dr. Neena Panandikar, Head of Department of Science & Humanities - Dr. Kala Nayak, SEEDS Coordinator- Mrs. Vaishali Parakhi. The gathering commenced with a prayer song, invoking the blessings of the almighty followed by the watering of a plant by the dignitaries.

While addressing the gathering, Dr. Ashwini Panandiker expressed her best wishes to all the students and teachers, keeping her thoughts for her presentation later. Dr. Neena Panandikar addressed the gathering and stressed on the 'Holistic development of students.' A development that is beyond the regular curriculum and the importance to



join IEEE, IISC etc. Badges were exchanged from the outgoing SEEDS council members (2021-22) to the newly elected council (2022-23) followed by the administering of the oath by Dr. Kala Nayak. The outgoing council (2021-22) were felicitated by Mrs. Gladys D'silva along with the

certificate distribution of the previous event winners. Mr. Josiah Fernandes, Chairperson of SEEDS 2022-23 shared his plans on various competitions, field trips and more on the list.

The inaugural function came to an end with a vote of thanks proposed by Mr. Vanosh Fernandes, Secretary of SEEDS.

Dr. Ashwini Panandiker, addressed the students by speaking on the topic Environmental sustainability. The topic focussed on 'Solution rather than pollution' with ideas consisting of the need of various applications, C&D waste, Linear economy, Business Responsibility and Sustainability Reporting, Matters Asylum and Segregation of waste. Case studies along with a video was display depicting Goa and Vishakhapatnam that aroused a feeling of sensitivity towards the nature. The prominent takeaway at the end of the presentation was the



need of an ecocentric mindset which in turn would lead to an array of solutions towards the rising environmental concerns.

Many events like PresentTech, Digital Postermania and Skit were organized and the students participated in them with full enthusiasm.

## Science Project Exhibition

The first year students organized a science mini-project exhibition on January 10, 2023 in the Physics and Chemistry laboratories. The aim of this event was to showcase the talents and innovative ideas of the students thereby encouraging them towards innovation and ideation in the future.

The judges for the event were Mr. Chetan Gaonkar -Assistant Professor -Department of Mechanical Engineering and Ms. Shruti Dessai -Assistant Professor - Department of Civil Engineering There were 34 groups that participated in the exhibition, enthusiastically explaining the concepts and working of their exhibits.



The Chemistry mini-projects ranged from the chemical chameleon experiment which was an experiment to show the color change of various solutions on undergoing redox reactions, to the extraction of silica from rice husks by the action of reagents NaOH and HCl on the ash produced on burning of husk, and an orange juice clock where energy derived from using orange juice as an electrolyte in an electrochemical cell connected to a battery is used to operate a clock. Some of the other projects presented were the determination of the



effects of acid rain on limestone, analysis of pH of beverages, biosensors and electroplating utilizing a copper plate and iron nail.

The Physics mini-projects were also based

on an extensive variety of concepts learnt throughout the curriculum that ranged from a Smart blind stick which is designed for the visually disabled that detects objects using ultrasonic sensors, to the use of microcontrollers as a sensor that detects movement of tyres and switches the lights on in a condition of darkness, as well as a hydraulic break system. Some of the other projects were laser security alarm, ultrasonic obstacle detector, Newton's cradle and clap switch circuit to name a few.

The judges went around assessing and posing questions based on the models and projects. This was an enlightening experience for the students who were not only pushed to learn new concepts and strengthen their grasp on the curriculum, but were also exposed to many more interesting ideas at the exhibition. The judges and the coordinators Mrs. Gladys Da Silva and Mr. Harison Cota, addressed the students and encouraged them to continue working on their project ideas and improving them. Principal - Dr. Neena Panandikar applauded the efforts put up



by the students in the form of the projects they had displayed and appreciated their enthusiasm in extending their knowledge towards the subjects of Physics and Chemistry. Head of Department - Science & Humanities - Dr. Kala R. Nayak stressed on the importance of applying book knowledge to practical use and to play an important role in improving lives through engineering. The participants were congratulated for their participation.



The project on 'the Smart blind Stick' was adjudged the first place and 'Extraction of silica' the second place.

## TRAINING AND PLACEMENT

### Webinar on GRE & TOEFL

The Training and Placement Cell organized a webinar on "GRE & TOEFL" for the students on December 22. The event was hosted by Dr. Shreyas Simu, Asst. TPO. Miss. Sarika Balchandani, Regional Manager (West India) ETS India Resource Centre managed by DP Cube Learning was the speaker for the session. Miss. Sarika spoke about the following: Detailed description of the TOEFL exam structure, language skills Listening/Reading/Writing/Speaking, GRE exam structure, strategies to crack TOEFL and GRE exams. She said "TOEFL is accepted and preferred worldwide for admissions by top universities". The session ended with a Q & A round.

## NSS

### Blood Donation Camp



The NSS unit of our college in association with Blood Bank, Hospicio, Margao conducted a blood donation camp in the Institute premises on November 23, 2022. A seven member team headed by Dr. Ravin Rego visited the Institute for the blood collection. Also present was NSS Program Officer, DBCE -Mr. Harison Cota. Director - Rev. Fr. Kinley D'Cruz and Principal- Dr. Neena Panandikar also visited the camp. 93 students and staff came forward to donate blood.

## FiiRE

### (Forum for Innovation Incubation Research and Entrepreneurship)

1. FiiRE Goa celebrated 4 eventful years on 08 December 2022, simplifying startup innovation, incubating ideas, enabling startups, and nurturing entrepreneurs.



2. Dr. Tessy Thomas, Distinguished Scientist & Director General, Aeronautical Systems (Aero) DRDO, Ministry of Defence, Govt. of India, visited FiiRE on 13 Dec 2022
3. Prof. Arindham Ghosh- Scientist and Professor Indian Institute of Science (IISc), Bangalore, India, visited FiiRE on 13 Dec 2022
4. Dr. Sindura Ganapathi- Office of the Principal Scientific Advisor to the Government of India visited FiiRE to get a sense of the startup ecosystem setup here and interacted with startups at FiiRE Goa.
5. FiiRE Goa partnered with Department of Science and Technology and Waste Management Department, Govt. of Goa for the '4th Manohar Parrikar Vidnyan Mahotsav 2022'. FiiRE's Host institution Don Bosco College Fatorda was one of the centres chosen to host the event.
6. FiiRE Goa was part of the launch of 'Goa's Young Innovator's Award 2022-23' and the 'Prototyping Grant Cheque Distribution' at the hands of Shri. Jose Manuel Noronha Chairman of GPSC and Goa State Innovation Council, Dr. Levinson J Martins Director Department of Science, Technology & Waste Management, Government of Goa, and Shri. D S Prashant CEO Forum for Innovation Incubation Research & Entrepreneurship.
7. On the occasion of the 'National Startup Day 2023', FiiRE Goa in association with Startup Promotion Cell (SPC) launched 'Goa Startup Yatra' 2022-23 which was flag-off by IT Minister Shri. Rohan Khaunte.

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