



Connections

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

Feb. - April, 2019 Vol 8 - Issue 3

Inside This Issue

News in General

Civil Department

Mechanical Department

ETC Department

Computer Department

Science & Humanities
Department

Training and Placement

Cultural



NEWS IN GENERAL SCIFFI' 19



Vidnyan Parishad organised the 4th Edition of Science Film Festival of India, SCIFFI'19 on the 17th, 18th and 19th January and was attended by 15 students. Themes of the festival were Future of Oceans, Technology and Innovation and Basic Sciences. 14 Speakers from various institutes like BITS-Pilani Goa, Don Bosco College of Engineering, University of Hyderabad, Goa Engineering College, Padre Conceicao College of Engineering-Goa delivered talks and screened films on various topics like Astronomy, Spacecrafts, Robotics, Bullet Trains, 3D Printing, Biomedical, Automotive Engines etc. It created a platform to interact with film makers, scientists and enthusiasts to create a better understanding of the universe.

IDEA Competition Under DBCE IIC

The Institution Innovation Council (IIC- DBCE) organized an Idea Competition in association with Innovation & Entrepreneurship Cell (I&E Cell) on 25th January 2019. 15 teams participated by giving initial entries of which 9 teams were shortlisted for the final presentation. The teams were evaluated based on following parameters: Presentation, Workability, Innovativeness, and Scalability. Each team was given 10 minutes for presenting the idea and 5 minute for question and answers. The initial shortlisting and screening was done by the IIC Evaluation Committee. The main objective of the competition was to



encourage students to consider entrepreneurship as a career option and foster a spirit of innovation and creativity. The competition was open to third and final year students of the college across disciplines.

The college incubation centre - Forum for Innovation Incubation Research and Entrepreneurship (FIIRE) hosted the competition. The students presented their ideas along with the marketing strategy, financial viability and market opportunity. Some of the ideas Presented Include Product Authentication Using Blockchain, Go Smart Cardiac Caretaker, Vitamin D Tracker, RF enabled Silent Zone sensing system, Smart Stick for visually impaired, among others. The nine shortlisted ideas will now be mentored by FIIRE.

The event was won by the team from the Computer Department - Kartik Patkar, Ansh Pathania, Rahul S Sharma and Safnu Samad from Third year

IEEE Skill and Knowledge Enhancement Programme (SKEP)

IEEE Student branch of DBCE was inaugurated on 1st February 2019 by IEEE Bombay Section Secretary, Dr. B. Satyanarayana. This was followed by two days Skill and Knowledge Enhancement programme (SKEP) coordinated by IEEE Branch Counselor, Prof. Yeshudas Muttu. The objective of organizing these expert talks under SKEP of IEEE Bombay section was to provide a platform for students to get introduced to unique research areas, so that as an engineer, they can contribute in various fields of science. The five eminent SKEP speakers from IEEE Bombay section were Dr. B. Satyanarayana, Dr. Sanjay S. Shitole, Dr. Sangita Chaudhari, Dr. Saurabh Mehta and Dr. Amiya Tripathy.

IEEE Student Branch – STB 11433

The Don Bosco College of Engineering, Fatorda, Goa established an IEEE student branch consisting of 74 students with the help of Prof. Yeshudas Muttu as the IEEE Branch Counselor, DBCE. It has also established a Students Satellite Club named “Parikrama” under the guidance of Dr. Varsha Turkar & Prof. Mohini Naik as Principal Investigators and Prof. Sweta Morajkar &

Prof. Ramnath Prabhu as Co – Principal Investigators. The inaugural ceremonies for both these Student Chapters were held on 1st February 2019 in the Seminar Hall of the college. The Chief Guest for the function was Mr. Shashank Krishna; Director & CEO of Katmal Info Technology, Padma Shri 2019 Nominee (Science and Engineering field) and the Guest of honor was Dr. B. Satyanarayana, IEEE Bombay section Secretary and Scientific Officer (H), TIFR, Mumbai.

Unnat Bharat Abhiyan Organizes Poster Making Competition



Don Bosco College of Engineering under Unnat Bharat Abhiyan Scheme organized Poster Making Competition for students of Government High School, Balli Goa under senior (Standard VIII-X) and junior category (Standard V-VII) on the occasion of Women's Day: 8th March 2019. Shri. Vidyadatta Naik, the headmaster of Government High School, Balli, welcomed the UBA team: Prof. Gaurang Patkar, Prof. Yeshudas Muttu and Prof. Sweta Morajkar & 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 60 students. Students were creative enough to highlight various phases in a Woman's life and the improvement that can be implemented by every individual to treat women respectfully in society. After putting in a lot of efforts, students were appreciated and felicitated for the beautiful posters made, and were awarded prizes under each category.

Visit of Rector Major Rev. Fr. Angel Fernandez Artime

The visit of the tenth successor of Don Bosco, Rector Major, Rev. Fr. Angel Fernandez Artime created a feeling of warmth and goodwill. Don Angel

Fernandez Artime embarked on his journey of knowledge and animation in the various Salesian houses and arrived at Don Bosco College of



Engineering on March 30th, 2019. On his arrival, Don Angel Fernandez Artime was presented an Indian turban, followed by a tour of the college.

The program started with a traditional prayer dance, followed by adorning the Don Bosco statue with a garland of fresh flowers. Don Angel Fernandez Artime was presented a shawl and basket of fruits. On this occasion, the Provincial Rev. Fr Felix Fernandes introduced the Rector Major, Rev. Fr. Angel Fernandez Artime and welcomed him along with Rev. Fr. Horacio López .

Don Angel Fernandez Artime provided insight and enlightened the minds of the youth with regards to family values and importance of education. He spoke with gentle calmness projecting understanding of life through a question answer round.

The program continued with different cultural performances:

- Portuguese Dance- Don Bosco College Panjim
- Kundbi Dance- Don Bosco Sulcorna
- Western Dance – Don Bosco Quepem
- Western Dance Don Bosco College of Engineering- Fatorda - Students
- Dekhni and Mando performance By Don Bosco College of Engineering- Fatorda; Staff
- Don Bosco Song – Don Bosco College of Engineering - Fatorda; Students



Don Bosco Youth Fest

During the second half of the day a Don Bosco youth fest was organised where in the following events were organised:

- Rhythm of Tradition(Folk Dance)
- How Funny Am I?(Monologue)
- The Voice(Singing)
- Mr. & Ms. Don Bosco
- Step Up Revolution(Western Dance)
- DBCE College Band / DJ EVENING



The various Don Bosco colleges across the state of Goa participated with enthusiasm and passion. The winner of the Don Bosco youth fest 2019 was bagged by Don Bosco College of Engineering- Fatorda followed by the runners up team as Don Bosco College-Panjim.

India Talk Series- Episode 4

In tune with the MHRD, Innovation Cell, organised its fourth episode on India Talk Series in India on 22nd April 2019 and was led by Dr. Abhay Jere, the CEO, MIC and Prof. Anil Sahasrabudha who was the chairman of AICTE and the guest speaker of that day. The episode was screened live for the students at Don Bosco College of Engineering seminar hall from 12pm to 1pm. The questions were raised in view to what the students felt about the education system in India. It was with respect to the infrastructure, curriculum, training to the teachers with the emerging technologies and lastly on start-up's and entrepreneurships.

Prof. Sahasrabudha emphasised on the fact that there needs to be hands on session, soft skills to the students and AICTE is working towards it by considering the curriculum of the NIT's and IIT's to be

its model curriculum. Through UNAT Bharat Abhiyan programme the students can go and find problems faced by the society and provide solutions through the emerging technology. Students participation in internships will intervene them with the industry, sensitize them and will enable them to create a better place to live in.

There has to be strong support systems among institutions to be a part of the incubation centre so that the students can invest their ideas. There also should arise the need for mentorship programs, entrepreneurships, training and space for the expression of ideas, as highlighted by Prof Sahasrabudha in his talk. He also said that India takes the 57th rank for innovation and stands third largest in the world for entrepreneurship.

He also said that the AICTE also started its Masters course in Start-ups and Entrepreneurs in the year 2019 having its syllabus formed with the stake holders so that the students can stand on their own feet. In addition, Prof. Sahasrabudha said that students can be a part of the ATAL Thinking Lab and work for the development of the society. He also pointed out that 95 percent of the students choose to stay in India thus adding to rapid progress of the nation.

Prof. Sahasrabudha believes that SELF- LEARNING and LIFE- LONG LEARNING (through Swayam) along with INTEGRITY is very important along with HARDWORK and PASSION with PERSEVERANCE; and was his message to all the listeners of the day.

CIVIL ENGINEERING DEPARTMENT

SANKRITI 2019

The Civil Engineering Students Association (CESA) in association with ICI students chapter DBCE organized one day Tech Fest "SANKRITI 2019" on 28th March 2019.



This intercollegiate technical fest had a number of events where the students showcased their innovative ideas and skillful talents in the various events that were organized, like Concrete Mix Design, Truss design, Aakriti (AutoCAD), Battle of words (Debate), Pixels (Photography), Brain Buster's (Quiz) etc. There were also a number of fun activities such as Treasure hunt, Block painting in which students participated with great enthusiasm.

The valedictory function of "SANKRITI 2019" was organized in the presence of the Chief Guest for the function Er. Joseph Silveira (ICI Goa), Rev. Fr. Kinley D'Cruz (Director), Dr. Neena Panandikar (Principal) and Dr. Shwetha Prasanna (HOD). For the valedictory function the winners and runners-up were presented with certificates, trophies and cash prizes. The overall winners of "SANKRITI 2019" were Goa College of Engineering, Farmagudi.

A total of 188 students registered and attended the event. Outstation students from Belgaum, Hubli, Karwar participated with great enthusiasm.

The faculty coordinators of "SANKRITI 2019" were Prof. Satyesh Kakodkar and Prof. B. R Anirudha.

Talk on "Interior Design"

The Civil Engineering Department conducted a talk on "Interior Design" on 25th April, 2019. This talk was conducted as a part of an academic enhancement for Second year students.



Consulting Civil Engineer and Interior Designer Ms. Neha Kakodkar was the Speaker. Er. Neha Kakodkar highlighted the basic concepts of planning the interiors. She covered various topics which include planning of modular kitchen, types of False Ceilings, Air Conditioning and reading of Electrical drawings.

In her presentation, she spoke on the benefits of modular kitchen over traditionally handmade cabinets. She also explained 5 steps to plan a Modular Kitchen which include: defining the layout or shape, selecting the modules, choosing the material, selecting the counter top and choosing the right kitchen appliances.

In Her presentation Er. Neha Kakodkar explained the different layouts of Modular Kitchen.

While covering False ceiling, she explained reasons providing False ceiling, its installations, types of false ceilings, different materials used and their finishes. How to read an electrical drawing was also explained to the students.

Her lecture was followed by a question answer session in which the students participated enthusiastically. The talk ended with a thanksgiving note by Prof. Satyesh Kakodkar.

Field Trip Salaulim Dam

The Final year Civil Engineering visited the Salaulim Dam on 26th April 2019 along with Prof. Oswyn Soares and Prof. Madhuraj Naik.

Field Trip Water Treatment Plant At Salaulim, Sanguem

The Third Civil Engineering students visited Water treatment plant at Salaulim, Sanguem on 26th April 2019 along with Prof. Satyesh kakodkar and Prof. Prachi Dessai.

MECHANICAL ENGINEERING DEPARTMENT

DBCE Students Volunteer for SAFETY QUEST 2019

Tejas Pandit, Rohit, Divesh Naik, Allson Dias, Tanmay Bhagat and Alithea were volunteers for SAFETY QUEST 2019, organized by Arundati Foundation in association with Fire & Security Association of India (FSAI) Goa Chapter at Institute Menezes Braganza hall, Panjim on 25th January 2019.



In all more than 200 students from 40 schools across Goa participated in the Quiz. The event was inaugurated by Mr. Ashok Menon, Director, Fire & Emergency Services, Goa and Valedictory function was graced by Dr. Muktesh Chandar, DGP, Goa. Prof. Ajit Salunke, HOD- Mechanical was a special invitee.

DBCE Mecheads Group Conducts Robotics Workshop At S. S Samiti's Smt. I.V.B. Dhavalikar High School

“MecHeads“ under the banner of Mechanical Engineers Students Hub (MESH) of Don Bosco Collage of Engineering ,Fatorda organized a one day workshop on “Introduction to Robotics and Empowering Youth” in collaboration with JCI Vasco on 2nd February 2019 at S. S Samiti's Smt. I.V.B. Dhavalikar High School, Dhavali, Ponda. The program was inaugurated by the Headmaster, Mr. S.V. Desai.

The students were introduced to Robotics with hands on experience on identifying various electro-mechanical components, assembling them and making a line follower robot. Later activity oriented sessions were taken on “Leadership and Creativity The students members of the group, Akhil Kuppasad, Mark Gonsalves, Tejas Pandit, Anuj Dhond, Rohit Prabhu, Shaunak Paradkar, Rohan Naik Borkar, Sankalp Amonkar and Bahar Phadte were the



resource persons. They were guided by Prof. Ishan Kosambe, faculty Coordinator, MecHeads and Prof. Ajit Salunke, HOD, Mechanical Engineering Department, DBCE.

The students are thankful to Fr. Kinley D' Cruz, Director, DBCE and Dr. Neena S. Panandikar, Principal, DBCE. On the occasion of World Integrity Day, students took the Integrity oath.

DBCE Students win 2nd Place in FSIE All India Project Expo

The students of Don Bosco College of Engineering, Fatorda won 2nd place in Fire and Security India Expo (FSIE), organised by Fire and Security Association of India (FSAI) from 28th February 2019 to 2nd March 2019 at Bombay Exhibition Center, Andheri. The students presented a project “Design and Fabrication of Disabled Friendly wheelchair”. The project aims to help physically challenged people in standing, sleeping and maintaining a comfortable posture.

The conceptual, mechanical design and fabrication was carried out by Mr. Deepak S Kolar, Mr. Saideep T Naik, Mr. Anay Kalghatgi, Mr. Vinay U. Naik and Mr. Prashant P. Gaokar under the guidance of Prof Swapnil Ramani and Prof Ajit Salunke, Head of Mechanical Engineering Department. The project was presented at the FSAI project expo by Mr. Tejas Pandit, Mr. Rohit Prabhu and Mr. Anuj Dhond, students of Third Year Mechanical, DBCE.

Another project “Rakshak” (The Saviour for the Soldier) by Mr. Tanmay Bhagat and Mr. Vivian Viegas which was also presented for the expo received great appreciation from Mr. Dominic K. P., National President of FSAI.

The main initiative of participating in the expo was taken by Prof. Saurab Raikar, coordinator of FSAI, DBCE chapter. The students received great support and motivation from Fr. Kinley D'Cruz (Director, DBCE), Dr. Neena Panandikar (Principal, DBCE), Shri. K.. K. Sekhar (President, FSAI Goa Chapter), Shri. Prem Nadar (Secretary, FSAI Goa Chapter) and Shri. Sameet Manerikar(Excecutive, FSAI Goa Chapter).

Field Visit to ONGC Goa and Dilip Bulcon Limited, Agasaim

The Second Year Mechanical Engineering Students & Faculty members of Mechanical Engineering department visited ONGC Goa and Dilip Bulcon Limited, Agasaim on 23rd March 2019.

Field Visit to Turbocam India Ltd for Final Year Mechanical students

On 20th March 2019, students of Final Year Mechanical Engineering visited Turbocam India Ltd, Margao Industrial Estate. Students were accompanied by Prof. Ishan Kossambe and Prof. Sachin Turi.

Field Visit of TE Mechanical Students to MRF & MVR

The Mechanical Engineering Department conducted a field visit for Third Year Mechanical Students to M.R.F Limited, Usgao, Ponda and M.V.R. Khandepar, on 23rd March 2019. The visit was organized by Prof. Ajit Salunke, Head of Mechanical Engineering Department and the Students were accompanied by Prof. Saurabh Raikar and Prof. Divyajeet Naik

Talk On Non Destructive Testing Methods

On 25th March 2019 the Department of Mechanical Engineering organized an expert talk in association with Institution of Engineers (India), DBCE Student chapter on “Non Destructive Testing (NDT)” methods by Er. Pritesh Chodankar, Proprietor of Indo Veritas Inspection & NDT training and services, Taleigao, Goa.

The topics covered during the talk were different



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properties of material, component or a system without causing damage. In other words, when the inspection or test is conducted the part can be still used as NDT does not permanently alter the article being inspected. It is a highly valuable technique that can save both money and time in product evaluation.

Most frequently used NDT techniques in industries explained by Er. Pritesh were Dye penetrant testing, Magnetic particle inspection, ultrasonic flaw detection, Radiography testing.

Overall it was a very enlightening and learning experience for the students of SE Mechanical & also for the faculty members. The talk was coordinated by Asst. Prof. Sharad Shanbhag, IEI faculty coordinator and Asst. Prof. Manjunath Narwate Prof. Ajit Salunke, HOD Mechanical, IEI faculty advisor, organized the talk.

Talk on Supply Chain Management



A Talk on Supply Chain Management was organized by Mechanical Engineering department on 5th April for the BE students who had opted for Supply chain Management as a final year elective. The resource person was Mr. Dattaprasad Bhonsle- Sr. Vice President - Supply chain Management at Capricorn Logistics.

The topics mainly focused on the industry perspective of supply chain network and how supply chain is very important for any business to progress. Case studies of famous brands like Pizza Hut, DHL logistics were explained with the help of videos. The students were also told about the various job opportunities in the field of supply chain and the courses related to it. The talk was indeed helpful for the students.

Hands-on sessions at Automobile Workshop & a Local Garage

Students of Mechanical Department visited an Automobile workshop and a local two wheeler garage near the college on 17th April 2019 to study the practical applications of the theory they study in class. The session was organised as a part of their academic Maintenance audit course. The owner of Pooja Motors, Mr. Mangesh Vharkat, explained the concepts of wheel alignment & wheel balancing and how it is performed on a vehicle. The students were also shown the live demonstration on the same. Then the students visited 'Sabha' garage in Arlem. The Mechanic, Mr. Jaffar took deep interest in teaching the students the actual mechanisms and linkages in a two wheeler. He dismantled the entire engine and showed students the Multiplate clutch, cylinder head and valves, oil pump, ignition system and carburettor for geared bike and CVT, clutch for a non-geared bike. The students also got some hands-on experience to work with various components of an engine.



The session was organised by Prof. Saurabh Raikar with support from Prof. Ajit Salunke, Head of Mechanical Engineering Department. Prof. Swapnil Ramani and Prof. Ishan Kossambe were the coordinators for the Maintenance audit course. The students were accompanied by Prof. Divyajeet Naik.

Field Visit- Ami Cas Composite Structure Ltd.

An industrial visit was organized by Mechanical Engineering Department on 22nd April 2019 for the students opting for FRC (Fiber Reinforced Composite) as their elective subject in Final Year. A total of 14 students were accompanied by Prof. Gaurish M Samant for the visit.

ELECTRONICS AND TELECOMMUNICATION ENGINEERING DEPARTMENT

Inaugural - IEEE Student Branch

The Don Bosco College of Engineering, Fatorda, Goa established an IEEE student branch consisting of 74 students with the help of Prof. Yeshudas Muttu as the IEEE Branch Counselor, DBCE. It has also established a Students Satellite Club named "Parikrama" under the guidance of Dr. Varsha Turkar & Prof. Mohini Naik as Principal Investigators and Prof. Sweta Morajkar & Prof. Ramnath Prabhu as Co – Principal Investigators. The inaugural ceremonies for both these Student Chapters were held on 1st February 2019 in the Seminar Hall of the college. The Chief Guest for the function was Mr. Shashank Krishna; Director & CEO of Katmal Info Technology, Padma Shri 2019 Nominee (Science and Engineering field) and the Guest of honor was Dr. B. Satyanarayana, IEEE Bombay section Secretary and Scientific Officer (H), TIFR, Mumbai.

IEEE Skill and Knowledge Enhancement Programme (SKEP)



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eminent SKEP speakers from IEEE Bombay section were Dr. B. Satyanarayana, Dr. Sanjay S. Shitole, Dr. Sangita Chaudhari, Dr. Saurabh Mehta and Dr. Amiya Tripathy.

IEEE Students of DBCE Organized Educational Tour to Bangalore



The IEEE Student Branch of Don Bosco of Engineering, Goa organized its first Educational Tour to Bangalore from 7th February 2019 to 11th February 2019 under the guidance of IEEE Branch Counselor, Prof. Yeshudas Muttu & Advisor, Dr. Varsha Turkar. 65 IEEE students along with 4 Faculty members, Prof. Yeshudas Muttu, Dr. Varsha Turkar, Prof. Mohini Naik & Prof. Satyesh Kakodkar visited Indian Space Research Organization (ISRO), Hindustan Aeronautics Limited (HAL) Museum and People's Education Society (PES) University.

Field Visit to Bosch Packaging Tech. Division and Indian Waste Treatment Plant

Students from the ETC Department visited the Bosch Packaging Technology Division, Verna followed by a visit to The Indian Waste treatment plant, Saligao on 28th Feb 2018 and were accompanied by Pro. D.S.Vidhya, Prof. Deron Rodrigues and Prof. Kimberly Morais.

Seminar on “Skills for Learning & Robotics”

As a part of National Skills Qualification Framework (NSQF) under Ministry of Skill Development and Entrepreneurship, Government High School, Advoi, Sattari – Goa organised a seminar on “Skills for Learning & Robotics” in association with IEEE Student branch of Don Bosco College of Engineering,

Fatorda – Goa on 1st March 2019. The lecture was delivered by Prof. Yeshudas Muttu, IEEE Branch Counselor and Mr Renvick Fernandes, IEEE Student Member. The session began with 'Skills for learning, Skills for study' by Prof. Yeshudas Muttu. The course was very interactive wherein Students shared their views on studying. It was then followed by various techniques to consider for the same. Prof. Yeshudas Muttu stressed more on the fact that studying doesn't mean to remember things but to understand the concept and remember it so that they can apply those concepts in real time. Later, students made their study time table which included not only their subjects but also time for sports as it forms one of the crucial and necessary parts in life. Mr. Renvick Fernandes delivered next session on 'Electrical, Electronics and applications'. Topics like an electrical charge, force, conductors, insulators, voltage, current; Ohm's law, circuits & its types, resistors, inductors and capacitors were covered briefly. Some electronic devices like a diode, LEDs and transistors were explained. The final part of the session was Robotics where basics of robotics, interfacing devices like sensors, motors, etc. were described. It was followed by a demo on a line follower robot where students enthusiastically had a Q & A session. Lastly, Prof. Yeshudas Muttu & Mr. Renvick Fernandes briefed about IEEE student branch to the students.



ONGC Field Visit

The students of final year ETC branch visited ONGC, Betul on 6th March 2019 who were accompanied by Prof. Michelle Araujo e Viegas, Prof. Samantha Cardoso and Prof. Anisha Cotta.

Bose Shannon Shockley Technical Paper Presentation

An annual Intra class technical review paper



presentation competition was organized by the Department of Electronics and Telecommunication Engineering in association with the DBEATS for third year students of Electronics and Telecommunication Engineering, on the 9th of March, 2019. Through this event the students were provided a platform to review and present a set of seminal papers already published in reputed journals, thus getting to know about the entire idea of publishing and presenting papers.

With the objectives of promoting the culture of research & innovation among engineering students, improving the communication skills of students and generating awareness about latest development in technology, the third year ETC students were divided into groups of four to five members each and were asked to select a paper related to the various fields of Electronics, Communication, Signal Processing, Instrumentation etc., study it and present it.

The following papers were presented:

- 1) Secure file storage on cloud using cryptography
- 2) Design of a Miniaturized dual band patch antenna for WLAN applications
- 3) Application of MIMO system for TTCSM sub systems to control satellite
- 4) Home automation: PLC -controlled implementation
- 5) Public safety communication above 6GHz: challenges and opportunities.
- 6) Image processing for early diagnosis of breast cancer using infrared images
- 7) Design challenges in silicon photonics
- 8) Embedded based deaf mute communication system
- 9) Measurement of ECG, Respiratory rate, Tilt and temperature of a patient and wireless Zigbee data transmission.

- 10) Short-mid-term solar power prediction by using artificial neural networks

We were glad and honored to have amongst us the judges, Mr. Yadnesh Sanzgiri, Technical Specialist at OPTEL Vision, Verna and Mrs. Palhavi Kerker, Assistant Professor at Goa College of Engineering, Farmagudi.

The first place was awarded to Mr. Saif Ahmed, Mr. Vaishakh Sanjeevan, Ms. Neha Shanbhag and Ms. Shriya Nayak for the paper titled “Embedded based deaf mute communication system.”

The second place was awarded to Mr. Pranav Khedekar, Ms. Akshata Naik, Ms. Sheetal Pharakate, Mr. Saish Raut for the paper titled “Measurement of ECG, Respiratory rate, Tilt and temperature of a patient and wireless ZIGBEE data transmission”.

The event was indeed, beneficial to the students and they were actively involved in the Event. The event was coordinated by DBEATS Faculty coordinators, Prof. Deron Rodrigues and Prof. D. S. Vidhya.

Field Trip - National Centre Polar and Ocean Research

The students of SE ETC visited NCPOR (National Centre Polar and Ocean Research) and 3D Infinity. Prof. Melba D'Souza and Prof. Selwyn Fernandes accompanied the students with proper guidance and assistance.

IEEE Student Branch Conducts Quiz Competition – Boomerang 1.0

Department of Mathematics, St. Joseph Vaz College, Cortalim – Goa organized a Quiz Competition on Mathematics in Technology titled “Boomerang 1.0” in association with IEEE Student branch of Don Bosco College of Engineering, Fatorda – Goa on 4th April 2019. The purpose of this quiz was to enhance the students' knowledge and the competitive spirit as well as to create academic interest in the subject of mathematics.

Prof. Yeshudas Muttu, Assistant Professor & IEEE Branch Counselor at Don Bosco College of



Engineering, was the quiz master for the competition, who was assisted by Mr. Renvick Fernandes, an IEEE student of Don Bosco College of Engineering as the

scorekeeper. The guest invitees were welcomed by Ms. Rosita Mascarenhas, Assistant Professor of Mathematics, St. Joseph Vaz College. The Administrator, Dr. (Fr.) Walter de Sa, highlighted the importance of Mathematics and praised the initiative taken by the Department of Mathematics for organizing the same.

The participants were divided into four teams namely; Alpha, Beta, Gamma, and Delta. The quiz comprised of six rounds based on Aptitude, Basic Mathematics, and Logical Questions. The teams competed with each other in a neck to neck fight which made the competition more interesting. The team Alpha emerged as the winners of the Quiz Competition. Trophies along with certificates were given to winners at the hands of Dr. (Fr.) Walter de Sa who appreciated the efforts of Prof. Yeshudas Muttu and Mr. Renvick Fernandes for conducting the quiz. Lastly, Mr. Tejeswa Naik, student of the second year B.Sc. proposed the vote of thanks.

Prof. Mohini Naik invited as Guest of Honour for ATL Community Day 2019

Atal Tinkering lab, Govt of India initiative to train and educate young minds. ATL Community Day was celebrated on 13th April 2019 at St. Xavier's Higher



Secondary School at Mapusa. ATL Mentor of change Prof. Mohini Naik was invited as Guest of Honour for ATL Community Day 2019.

Prof. Mohini N. Naik delivered a talk on electromagnetic waves, propagation & its spectrum. She also gave brief information about projects, innovation ideas in the Electromagnetic field domain.

Students of Don Bosco College of Engineering have been selected for Round 2- SMART INDIA HECKATHON (SIH) 2019

Innovation and entrepreneurship are at the peak in India. In order to make development a comprehensive mass movement and to promote innovation on all fronts



MHRD, AICTE, i4C and Persistent systems have come together to organize Smart India Hackathon 2019.

Second year ETC students, Raj Kubal, Juella De Oliveira, Abhishek Dhumvad, Saurabh Prabhu, Rahul Kotru, Renvick Fernandes mentored by Prof. Mohini Naik, Assistant Professor from the Electronics and Telecommunication Engineering Department have been selected for SIH 2019 Round 2 for their project Phantom Prabhu. A total of 40 teams from DBCE registered for SIH 2019. Prof. Kiran Waghmare and Prof. Selvyn Fernandes were the SPOC and Dr. Varsha Turkar was the college co-ordinator for SIH 2019.

COMPUTER ENGINEERING DEPARTMENT

SE Computer Attend Javascript Workshop (Beyond The Syllabus)

C-CODES Student Association along with the Computer Department organized a workshop on "JavaScript". It was conducted on 23rd March 2019 from 9:00 am-1:00 pm for the second year computer engineering students.



31 students attended the workshop. The resource persons for the workshop were members of a startup up team “Internship Station”: Shubham Jha, Rahul Naik, Rohit Sankpal and Akshay Saraf, who are also ex-students of DBCE. The coordinator for the workshop was Prof. Merwyn D'Souza.

Students were first asked to answer an online quiz, the questions were related to JavaScript. This was to check the knowledge of the students in this area.

The students were then given a brief introduction on what is JavaScript, it's importance, and the platforms used to write the code. This workshop also included a simultaneous hands-on coding session. An overview of the syntax was also given.

The students were also shown how JavaScript can be used within an HTML code (embedded) to add interactivity to the webpages, also how to import an external JavaScript file and use it in the HTML code. The students were also shown how they can display window alert (for error messages and outputs) pop-up. Further the students were taught about variables & objects, functions, arrays, operators, use of control flow statements, create forms etc.

Also, form validation using regular expressions were demonstrated to the students. At the end of the workshop, students were given a small activity where in they were asked to create a form that took information like name, date of birth, contact number, email and password. They were also asked to perform form validation on the form they created and display appropriate error messages.

Then students were asked to answer the same online quiz that they attempted at the start of the

workshop and check if they understood the concepts covered in the workshop.

SE Computer Students Attend NODE JS Workshop

C-codes association along with the Computer Department organized a workshop on Node JS. It was conducted on 27th April 2019 from 1:00 pm to 5:30 pm for second year computer engineering students. Around 20 students attended the workshop. The resource person for the workshop was Mr. Adnan Sayed from company One-Stop Solutions. The coordinators for the workshop was Prof. Siya Naik and Prof. Merwyn D'Souza.

Students were first introduced to what Node JS is all about, how it helps in making tasks simpler and how it can solve some of the problems that are not possible with the help of an example. This workshop also included a simultaneous coding session. Some of the basic commands like print and initialization statements particular to Node JS were explained.

Students were further introduced to three types of modules (libraries) in Node JS: in-built modules, third-party modules and user-defined modules. Various in-built modules and their functionalities were explained to the students. Programs were implemented which involved in-built modules. Installation process of third-party modules were demonstrated to students and programs using these libraries were also performed.



Students were taught to create their own module (user-defined) and use these in the programs. Session was concluded by writing a code that behaves like a calculator.

SCIENCE AND HUMANITIES

SEEDS- Valedictory

The final event for SEEDS 2018-19 was held on 23rd March 2019.

The Highlight of the event was the workshop held for the students of National Open School – Loyola-Navelim. The students were introduced to various concepts on Chemistry, Physics, Mathematics, Drawing, and Craft and also witnessed sessions in the language Laboratory. These sessions were conducted by the students of First year, Don Bosco College of Engineering-Fatorda. The purpose of this event was to create social awareness as part of community initiative on imparting quality education to all walks of life. The students from National Open School – Loyola-Navelim enjoyed the sessions and impressed upon the organisers that they would like to visit Don Bosco College of Engineering-Fatorda in the future for more workshops.

The students of first year at Don Bosco College of Engineering-Fatorda took part in competitions such as: Poster making, Clay Modelling, Flameless Cooking, Best out of waste, News Channel anchoring, Motivational talk and Talent round.

The event ended with a valedictory function graced by the presence of Fr. Paul D'Souza-Rector, Fr. Kinley D'Cruz-Director, Dr. Neena Panandikar-Principal, Dr. Kala Nayak-Registrar & Head of Department of Science & Humanities.

Dr. Neena Panandikar in her address to the students encouraged them to start materialising their dreams from the first year itself.

Rev. Fr. Kinley D'cruz impressed upon the students to invoke the passion within them to achieve their dreams.

Certificates and prizes were then distributed to the students for their impressive participation during the events for SEEDS.

FE Computers were declared the winners for SEEDS

2018-19 and were handed over the trophy at the hands of Rev. Fr. Kinley D'Cruz.

The vote of thanks was delivered by Mr. Nikhil Chinchawade. The comperes for the event were Ms. Berny Dias, Ms. Anchita Maity, Ms. Neha Joshi, Mr. Lysander Fernandes and Mr. Tanishq Kulkarni.

TRAINING AND PLACEMENT

Leadership Talk with Shri Ajit Doval, NSA, Govt. of India [MHRD Innovation Cell- IIC]

Mr. Ajit Kumar Doval, IPS, PPM, KC, PM, is the 5th and current National Security Advisor to the Prime Minister of India. In a recent interview he answered some questions sent to him by students to help them gain insight on his life, art of decision making and his journey to success.

The first question asked was regarding how he deals with making difficult decisions like the ones he had to take during the recent surgical strike.

His answer was on the lines of the fact that people are different and that different people make different decisions based on various factors, but make any choice and the result will only be seen after the decision is made and probably the effects at that point are irreversible.

So to deal with this he gave a great thought process, first consider the worst possible outcome and see if it's affordable in such a way that the country can deal with it. Now work on this outcome by trying to make it better. Also have a backup plan so as to be prepared.

Also he qualified a difficult decision as a one which has few choices, high risk and long lasting consequences. To be responsive to this kind of situations one must have clarity of mind. Also to avoid any sort of personal bias regarding the decision, bias that can be produced by emotion or some external factor.

Another important point which he emphasised on was that many decisions can work; the difficult part is

to work towards the decision that bears and demand discipline and work ethics.

The next question posed was a bit more personal, what makes him what he is today? To this he replied that he believes that he is more of a solo person and that he likes doing things differently and another nugget “live every second as the first second of the rest of your life”

An underlying factor to his personality is his psyche and the development of which he credits to his troubled childhood and his admission to military school at a young age of 8 years. Those times taught him to be self-dependent and made him think responsibly.

Another important event in this development stage was when his teacher chose him to be part of the school boxing team because according to his teacher he never accepted defeat. He also added that what happens to him is in God's hands .

On more of his decisions which are personal in life he advises when faced with a choice between what you should do because of your duty and what you should do because of your passion always choose the second option.

His views on the future of war and terrorism are that in today's world cyber security and information is the key. Due to the advancement of weapons of mass destruction in a conventional war the consequences would be unaffordable and irreversible in terms of losses.

In conclusion, he also mentioned that he has never signed up for any social media accounts or used them, all his accounts are created by some well-wishers. For any personal communication he does not use a computer due to the fact that it can be compromised.



Talk on Risk Management Solutions

The Training & Placement Cell organized a talk on Risk Management Solutions, Path to be a CEO and Career Mapping for the next 5 years for the BE Mechanical undergraduate students on 9th April 2019 from 11.00 am to 12.00 noon. The eminent speaker Mr. Nilesh Sarawate, CEO of AKADEMIA shared his thoughts on how an engineer should make the right career decision. His team Mr. Vignesh Kamath and Mr. Shivav Temkar (Alumnus, DBCE Batch 2015) accompanied him. Ms. Grebrian Alemao, Counseling Psychologist, coordinated the talk.

Talk on Career in Civil Services

The Training and Placement Cell arranged a Talk with the NEXT IAS Institute as a part of the Series on Alternate Careers after Engineering for the Third Year and Final Year Engineering Students from Computers, Mechanical, Civil and Electronics & Telecommunication on Friday, 8th February 2019 at the campus.



The three areas of preparation of UPSC examination was explained by Mr. Mohit Sharma, Mechanical Engineer and Alumnus of IIT Kanpur with a rich experience of IAS and IES examination and an expert faculty in UPSC general studies.

Mr. Moti Ur Rahman, IPS Officer with 154 rank in 2018 narrated his experience and journey of four years in UPSC preparation.

CULTURAL

Procyon 2K19

PROCYON is an inter-class cultural two day fiesta, wherein students of 16 different classes showcase



their talents in various cultural activities on a common platform.

The Chief Guest, Ms. Nadia Rebelo, a renowned Fadista and the Guest of Honour Mr. Sanket Mandrekar an artist by profession each wrote a message for the students at the venue. The Inaugural Function commenced with the Chief Guest, Ms. Nadia Rebelo and the Guest of Honour Mr. Sanket Mandrekar watering a potted plant. The Chief Guest then declared PROCYON 2019 open.

The Director, Rev. Fr. Kinley D'Cruz addressed the gathering. In his address Rev. Fr. Kinley D'Cruz conveyed how he appreciates a holistic all -round development of a student and how such events encourage their development. He urged the gathering to encourage, respect, acknowledge and cheer for all the participants and not merely the winners.



The Principal, Dr. Neena Panandikar also addressed the gathering thanking the cultural team, student council members and staff for the hard work put in to organising the event.

In her address the Chief Guest, Ms. Nadia Rebelo, encouraged the students to participate in all the activities and to put in their very best. She emphasized on living their dream and that success would follow naturally. She said that she was never a

winner but it's the failures that made her strong and triumph as a winner in the end. As a token of appreciation, the Director, Rev. Fr. Kinley D'Cruz, presented a memento to the Chief Guest, Ms. Nadia Rebelo, while the Principal, Dr. Neena Panandikar, presented a memento to the Guest of Honour Mr. Sanket Mandrekar. The inaugural function came to a close with the vote of thanks being proposed by the General Secretary, Sherwin Cardoso.

The Guest of Honour, Mr. Sanket Mandrekar a very talented internationally acclaimed artist demonstrated superb showmanship with a portrait of Don Bosco. The Chief Guest, Ms. Nadia Rebelo also enthralled the gathering with her nightingale voice. Several activities like Rhythm Of Tradition, Battle Of Bands, Step Up, T-Shirt Painting, Master Chef, Nukkad Natak, Snapper, The Voice, Skit, Rock The Ramp, Wealth Out of Waste, Rangoli, Movie Making were held in the college campus. The department events had two professors who took part along with their students.

The winners of PROCYON 2K19 were the students of B.E Mechanical and the Runners Up were the students of T.E. MECHANICAL. They were awarded on the Annual cultural day at the hands of Chief Guest Mr. Jaideep Redkar and Director Rev. Fr. Kinley D'Cruz.

Annual Day 2019

Don Bosco College of Engineering, Fatorda, Goa celebrated its Eighth Annual Day and Prize Distribution Ceremony at Ravindra Bhavan on 29th March 2019. The Annual day is a platform to appreciate and acknowledge the young budding engineers for their academic achievements and to display their talents in the field of Music, Dance and Theatre.



Principal, Dr. Neena Panandikar welcomed the gathering and congratulated the hard



work put in that celebrates the spirit of Don Bosco College of Engineering. Director, Fr. Kinley D'Cruz addressed the gathering and appreciated the remarkable growth of the institute. Rector, Rev. Fr. Paul D'Souza was present on the dais along with the other dignitaries.

Principal, Dr. Neena Panandikar highlighted the incredible progress the college has made in a span of eight years. Heads of Departments presented the annual report of their respective department, Registrar, Dr. Kala Nayak announced to the gathering the performance of the meritorious students and were felicitated. The Training & Placement report along with NSS report was presented by the respective officers. The students were awarded certificates for various sports competitions. The college magazine Beacon and the Newsletter Connections were released at the hands of the dignitaries.

Speaking on the occasion, the Chief Guest, Mr. Jaideep Redkar, Vice President, Rosenberger Asia Pacific emphasized upon the need for maintaining relationships along with professional success in life. Stressing upon the need to garner more and more quality education, he said that education is like a ship. One does not feel its weight while it is sailing, but it takes you to your destination. He also made students



aware of their responsibilities towards society and importance of value education.

The Guest of Honour, Mr. John Shilshi, an IPS officer, retired of Manipur cadre, presently an Analyst of Think Tank group on Internal Security, China -Tibet and Nepal affairs advised the elders not to enforce a particular career option upon their children. He further stated that it is a misconception that only by joining forces or civil services or getting a government job, one can serve the nation. Every work, every profession contributes towards nation building. He applauded Don Bosco College of Engineering for nurturing great values and talent among students. He emphasized upon the need for students to read beyond textbooks and appear for various competitive exams with set planning and strong will.



The students, Mr. Ceasar D'Silva (BE Computer) and Ms. Stella Tom (SE Computer) compered the function. The formal inaugural session was followed by a cultural programme presented by the students and staff members. The function ended on a glorious note with students of BE Mechanical winning the PROCYON Trophy and TE Mechanical winning the Runners-up trophy. Prof. Natasha D'Souza e Jaques proposed the vote of thanks.

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