DON BOSCO COLLEGE OF ENGINEERING
Excellence in Education

Connections

Inside This Issue

NEWS IN GENERAL

INDEPENDENCE DAY CYCLE RIDE

Independence Day Cycle Ride 2019 was organised by Club Probyk from Panaji and Pro Pedalerz from Margao on Thursday, 15th August 2019. Prof. Achintya Kambli from the Department of Mechanical Engineering, Don Bosco College of Engineering participated in the cycling event.

The riders pedalled through 3 Talukas and covered a total distance of 60 KM in 3 hours. The event was a success and promoted cycling as a healthy and fun group activity.

MOU BETWEEN DON BOSCO COLLEGE OF ENGINEERING - FATORDA AND EARNESTEK – MARGAO

A Memorandum of understanding was signed between Don Bosco College of Engineering, Fatorda, Goa and Earnestek, Margao, Goa on 21st August 2019.

Rev. Fr. Kinley D'Cruz (Director, DBCE) and Mr. Shravan Hegde (Co-Founder, Earnestek) signed the MOU in the presence of Dr. Neena Panandikar, (Principal, DBCE) along with Head of Computer Engineering Department, Asst. Prof. Gaurang Patkar and Faculty Coordinator, Asst. Prof. Maria Christina Barretto. Also present was Mr. Vibhav Kharangate (Co-Founder, Earnestek).

The MOU was signed with the objective to recognise the mutual interest in the fields of training and development and dissemination of knowledge. Also to recognise that industrial internship is an important aspect of the various programs of Don Bosco College of Engineering. The MOU will set the ground for long term Industry – Institute partnerships promoting

Guest Lectures and Skill Development. Mr. Vibhav Kharangate mentioned that this MOU is a good initiative to develop research and innovation ability among young engineers as well as ensure entrepreneurship skills among wilful candidates. The MOU signed is valid for two years from the date of signing.

INDIA FIRST LEADERSHIP TALK SERIES ON INNOVATION FOR RESURGENT INDIA

The Honorable HRD Minister, Dr. Ramesh Pokhriyal Nishank addressed the young students on 22nd August 2019 through the MHRD IIC at Don Bosco college of Engineering. Dr. Ramesh Pokhriyal Nishank, a dynamic personality, who has authored several books, shared his success story. He expressed his views on the importance of moral virtues one has to keep in mind for the development of oneself and hence for the development of the country. He spoke in detail about the qualities a good leader should possess. According to him, the prime attribute of being a leader is the ability to work in a team and determination to work smart and hard. He mentioned that there is no replacement for hard work in one's life and one shouldn't seek ways which depreciate the value of hard work. "Hard work is one's identity and density", quoted Dr. Ramesh Pokhriyal Nishank.

He further spoke about the importance of education, that it is the foundation to the pedestal of the highest pinnacle in development. He also briefed them about the reforms that are yet to be made and the ones that have already been implemented in the education system, so that education becomes integral with Indian traditions and teachings. He emphasized that the aim is to promote the mother tongue of each region by making it as the MOI for students from the age of 3 years. He spoke about the importance of Sanskrit in the field of science and the contribution of various ancient Indian scientists. He briefed the students about Prime Minister, Narendra Modi's various projects such as 'Make in India', 'Swatch Bharat' and schemes which promote and encourage innovation. He informed them that India has a lot of potential that is yet to be tapped and change of mindset in the education system is going to make this possible and said that the budget kept for education
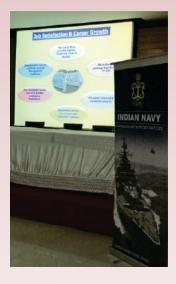
has been increased to 125000 crores rupees.

He believes that students should be made a part of the problem solving workforce regarding the problems of the country. If a student feels like he or she is making a change in society, and being of help to the nation, they will never give up and move forward in life with that fire in their hearts, hence encouraging others to do the same. As a part of that dream, a student can start planting at least one tree on his or her birthday, save at least one litre of water daily and stop others from littering their surroundings.

He shared his life story about his humble beginnings and that failure is an inevitable part of life. He said that the ones who have tried and failed will always be ahead of those who have never tried. Through difficulties, a person comes face to face with themselves and that gives them a chance to change and work on themselves. Success should be achieved at the students' own pace. If a person has a clear vision, will and optimistic outlook, then no one can stop such a person from achieving success.

JOINING NAVY – CAREER AFTER ENGINEERING

The Training and Placement Cell of Don Bosco College of Engineering arranged a day with the Indian Navy as a part of the Series on Alternate Careers after Engineering for the Third Year and Final Year Engineering Students from Computer, Mechanical and Electronics & Telecommunication. The talk was organized on Friday, 13th September 2019 at the campus.

The talk was delivered by Lt. Shama Goel who presented an overview of the Indian Navy and the career prospects at the Navy. She was assisted by CHELA. Tarsem Lal and POAF, K K Bhagat from the Indian Navy currently posted at INS Hansa.

TEACHER'S DAY 2019

Don Bosco College of Engineering celebrated Teacher's Day on 14th September, 2019, with much enthusiasm and joy. The celebration was compered by Sonia Gama from T.E. Civil and Dayanand Sampath Naidu from F.E Civil. It began with the cutting of a cake by the Director- Rev. Fr. Kinley D'Cruz, Rector Rev Fr. Paul D'Sousa, and Principal - Dr. Neena Panandikar, Registra Dr. Kala Nayak and the Heads of all Departments.

Rev. Fr. Kinley D'Cruz spoke on the occasion, encouraging the staff members and appreciating their efforts towards the institute. He also screened a beautiful video for the teachers.

Rev. Fr. Paul D'Souza addressed the gathering and encouraged the staff members to work together towards the vision of the institute

Dr. Neena S. P. Panandikar also spoke on the occasion and thanked the staff members for their efforts and enthusiasm that the staff members continue to put in. She compiled a video showing the staff members in various events which was well appreciated by all. The college band left everyone in awe with their music. Two very interesting games were held for the staff which was conducted by Ms. Sonia Gama from T.E. Civil and Mr. Dayanand Sampath Naidu from F.E Civil, in which the staff member had to solve riddles. The staff members participated with much enthusiasm in the event.

Rev. Fr. Kinley D'Cruz, Rev Fr. Paul D'Sousa, Principal Dr. Neena S. P. Panandikar distributed mementos to each staff member as a token of love and appreciation which was then followed by a staff picture.

FRESHER'S DAY

Fresher's party was celebrated so as to generate the feeling of fraternity among seniors and juniors. Both the Director- Rev. Fr. Kinley D'Cruz and Principal Dr. Neena Panandikar gave a very warm welcome to the students with a very motivating speech. This was followed by the college band that enthralled and mesmerized the audience with their mind blowing performances. The 2nd year computer girls gave a beautiful dance performance which was followed by games for the students with spot prizes too. The evening ended with DJ Gleeson playing the latest dance music for which the students danced their hearts out. The Freshers loved the welcome given to them and appreciated the whole-hearted efforts of their seniors. It is said that a good start signifies a great end, and the Freshers could not have asked for a better kick off.

WORKSHOP on "eSim"

Don Bosco College of Engineering under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching organized a one – day Workshop on "eSim" on 21st September 2019. Around 120 Remote Centres participated in this workshop all over India, Don Bosco College of Engineering being one of them. The workshop coordinator was Prof. Kimberly Morais and remote center coordinator for the workshop was Prof. Amrita Naik. The entire workshop was guided by Prof. Kimberly Morais and

well assisted by Mr. Ignatius Dias, Mr. Romeo D'Cruz and Mr. Amit Sapkal. In the inaugural function, Prof. Kannan Moudgalya, FOSSEE project, IIT Bombay spoke of the importance of eSim and also talked about the flow of the workshop and the teaching faculty of the workshop, Prof. Pramod Murali explained why hardware has been included. Following this, Ms. Nancy Varkey introduced the Spoken Tutorial Forum. The workshop was solely based on learning eSim using Spoken Tutorial wherein participants were introduced to 9 videos on eSim.

The participants of the workshop were teachers from various colleges in the states such as GEC, Padre Conceição College of Engineering, Shree Rayeshwar Institute of Engineering and Information Technology, Parvatibai Chowgule college, ITI-Cacora, ITI-Canacona & Government Polytechnic Panaji.

GCCI IT "TECH MATTERS"

The GCCI IT & Start-Ups Committee in association with Google Developer's Group (GDG) Goa and Women Techmakers (WTM) Goa is organizing a series of Talk sessions in various engineering colleges of Goa, with a common aim to build a strong tech community of industry professionals & students in the state of Goa.

The idea is to conduct regular meet-ups / talks / seminars in colleges to augment the technical skills of students by equipping them with the knowledge of Next-Gen technology like machine learning, Iot, web development, blockchain etc.

The second institute in the state to host this event

was Don Bosco College of Engineering (DBCE), Fatorda, Goa on 24th August 2019. The speakers for the event were Mr. Abhishek Kumar and Ms. Dikshita Desai.

Ms. Dikshita Desai is an eminent member of the IT committee of GCCI, who leads GDG (Google Developers' Group), WTM (Women Techmakers), PyLadies, Girlscript and Sheroes Goa. She delivered a very interesting session on Actions on Google covering topics such as Google assistant, machine learning for speech, various machine learning models, natural language processing. She spoke on how to build and deploy your own machine learning model with TensorFlow framework, Cloud Machine Learning Engine and how the ready to use models could be harnessed for applications directly. She also spoke on how dialog flow is used to generate commands to directly interact with the google assistant.

Mr. Abhishek Kumar is the founder and CEO at Saratech, a development and innovation hub based in Goa. He spoke on web development, perks of cruising into a career of web development, technologies to be learnt to venture into web development, the best way to learn them, career options, an insight into the do's and don'ts in web development etc. He also shared his experience as how he started with web development, his journey and some tips to the students. It was a very interactive session that began with a quiz on tech logos.

At the end of the session the campus representatives of GDG- Goa, Mr. Vaishnav Vharkat (TE Comp) and WTM-Goa, Ms. Stella Tom (TE Comp) introduced Google Developers' Group and Women Techmakers Community to the students. The faculty coordinator for the event was Prof. Christina Barretto. A total of 74 Students from second year and third year Computer attended the session.

TWO DAYS WORKSHOP ON GREEN AUDIT AT DMC MAPUSA

A 2-day workshop on Green audit for College Campus was conducted by Dnyanprassarak Mandals College

of Research Centre Assagao- Bardez on 29th & 30th August 2019. The workshop primarily focused on how a green audit is carried out in a college campus for the necessary NAAC accreditation. Dr. Shalini Dhyani (Scientist, NEERI Nagpur), Mr. Pradip Sarmokadam (Member Secretary, Goa State Biodiversity Board, Government of Goa) Mr. Ganesh Chari (Managing Director, Neshaju Envirotech) and Mr. Abhinav Apte (General Manager, LILA Solution) were the resource persons. Topics such as Water Audit, Energy Audit and Biodiversity Audit were covered in this workshop. An Innovation idea competition was also organized for the college students. Total 14 teams had participated from various colleges all over Goa out of which the 1st and the 3rd place were secured by Don Bosco College of Engineering. The 1st place was awarded to Mr. Abul Fazal Sayed and a cash prize of Rs. 10,000 for his innovative idea on Green Energy from Piezoelectric crystals. Mr. Sanat Bharne and Mr. Rajay Naik secured 3rd place and a cash prize of Rs. 2,500 for their project on 'Segregation of Solid waste using Robotic Arm'.

BINGHAMTON UNIVERSITY – OVERVIEW OF GRAD EDUCATION IN USA

The Training and Placement Cell of Don Bosco College of Engineering arranged a Session on Overview of Grad Education in USA addressed by Dr. Krishnaswami Hari, Executive Vice Provost for International Initiatives and Chief Global Affairs Officer along with Elizabeth Kradjian, Assistant Dean for Strategy and External Affairs. This session was held on Wednesday, 18 September 2019.

Dr. Hari spoke on the various entrance exams needed to apply for MS in US. He provided information on the finances, opportunities, and research areas a student needs to focus on for further higher studies at Binghamton University. The difference between

State and Private Universities was aptly explained to the students.

This session was attended by First, Second, Third and Final Year Students of all programmes who are interested in studying abroad in US. The students asked many interesting questions and that showed their interest in higher studies abroad.

DON BOSCO COLLEGE OF ENGINEERING SIGNS MOU WITH TURBOCAM (INDIA) PRIVATE LIMITED

A Memorandum of Understanding was signed by Don Bosco College of Engineering, Fatorda with Turbocam (India) Private Limited in respect of manufacture of sophisticated aero foil components for aerospace, power generation, automotive and other industries at Margao Industrial Estate, Goa on 4th October 2019. The purpose of this MOU is to collaborate with the Department of Mechanical Engineering of DBCE for Industrial Internships, field visits, Guest lectures, Student Projects, seminars/workshops, corporate training programs, Skill Development etc. The collaboration will provide a platform where experts from the corporate with relevant experience and expertise will share knowledge in the area with changing technological scenarios. It will help to develop research and innovation ability and entrepreneurship skills among budding engineers. It will also facilitate exchange of facilities and knowledge among both the organizations. It will also aim to facilitate research among the faculty members.

The MOU was signed by Mr. Savio Carvalho, Director, Turbocam India Pvt. Ltd. and Fr. Kinley D`Cruz, Director, Don Bosco College of Engineering. Dr. Neena Panandikar, Principal, DBCE, Prof. Ajit Salunke, HOD Mechanical Engineering Department, Prof. Swapnil Ramani, Assistant Prof Mechanical Engineering Department and other

members of the Engineering Department in Turbocam were also present during the occasion.

DBCE SIGNS 23 MOUS

There is always a talk about the gap between academia and industry. To bridge the gap, Don Bosco College of Engineering signed 23 MoUs on 15th October 2019 at the Taleigao Community hall under the auspices of the inaugural of the Centre for Excellence for Employability Enhancement (CEEE) which is the brainchild of the Directorate of Technical Education. CEEE was officially inaugurated by the Hon. Chief Minister – Dr. Pramod Sawant who spoke about the paradigm shift from learning based projects to Project based learning.

Other dignitaries present on the occasion were Mr. Vishwajit Rani – Minister for Health, Industries, Trade and Commerce and MLA Subhash Shirodkar – Chairman of Goa Housing Board, Education Secretary Ms. Nila Mohanan. The event also saw keynote addresses from Mr. Ajai Chowdhury, HCL Co Founder, Prof M.P. Poonia, Vice Chairman AICTE, Mr Sitaram Kandi, VP-HR, Tata Motors, and Mr. Pratapsinh Desai, President – ISTE.

Don Bosco College of Engineering who had initiated MoUs quite early on, signed 23 MoUs on the day with prestigious companies in and around Goa. The companies who signed MoU were Mrinq Technologies, Enviro Guru (OPC) Pvt. Ltd., Sun 360, Inficorridor Solutions Pvt. Ltd – Mumbai, Autotech Builds Automation, Eduvance, Vanmat Technologies Pvt. Ltd – Mumbai, Association of Consulting Civil Engineers, India (ACCE), Alcon India LLP, Nanu Enterprises, Prism Johnson Pvt. Ltd - RMC India, Ultratech Cements, Cloud Counselage Mumbai, Goa Technology Association, Xerviz Wlobal, Earnestek, Sanofi India, Turbocam India, Astra Metal Systems Pvt. Ltd, Abhishek Alloys Pvt. Ltd, Godrej & Boyce Mfg. Co. Pvt. Ltd, Expert Engineering Solutions, Belgavi and Belgaum Auto Works.

DBCE SIGNS MOU WITH GODREJ AND BOYCE MFG COM LTD. & ASTRA METAL SYSTEMS PVT. LTD.

Don Bosco College of Engineering signed MOU with Godrej and Boyce Mfg Com Ltd, Madkai, Industrial Estate, Ponda and Astra Metal Systems Pvt. Ltd. Verna during the Inauguration of Centre of Excellence for Employability Enhancement (CEEE) on 15th October 2019 at Taleigao Community Centre. The event was organized by the Directorate of Technical education, Goa and was graced by Dr. Pramod Sawant, Hon. Chief Minister of Goa, who was the Chief Guest. Mr. James Kurian, Associate Vice President signed the MOU on behalf of Godrej and Boyce Mfg Com Ltd. and the MOU with Astra Metal was signed by Mr. Satish Shinde, Managing Director.

Rev. Fr. Kinley D'Cruz, Director signed the MOUs on behalf of Don Bosco College of Engineering in the presence of Dr. Neena Panandikar, Principal and Prof. Ajit Salunke, HOD (Mechanical). In pursuit of excellence in Technical Education, DBCE has also signed MOUs with Abhishek Alloys Pvt. Ltd., Belagavi, Belagavi Auto Works and Expert Engineering Solutions, Belagavi. The objective of the MOUs is collaboration of Mechanical Engineering Department of DBCE with the industries to promote industry institute interaction.

Prof. Suraj Marathe, Prof. Sachin Turi and Prof. Swapnil Ramani were also present during the occasion.

DBCE ALUMNUS DEEPAK KOLUR WINS BNI ENTREPRENEURSHIP AWARD

Mr. Deepak Kolur, Alumnus of Don Bosco College of Engineering, who passed out in 2017-18 from the Mechanical Engineering Department brought laurels to the Institution by winning an Award in appreciation of his contribution to the National Growth as an Entrepreneur on occasion of World Entrepreneurs Day from BNI, Goa. He was nominated for this award by Goa State Innovation Council and received the Award from Fr. Kinley D'Cruz, Director, DBCE, who was the Chief Guest for the function.

Deepak along with Saideep Naik and Harshad Kavlekar have also made DBCE proud after being selected as co-founders for designing & manufacturing of E- richshaws at the Stademy Start up Competition, organised by an Australia based Start up Academy.

Deepak along with Saideep had undertaken the project titled "Disabled Friendly Wheel Chair" in their final year engineering under the guidance of Prof. Swapnil Ramani and Prof. Ajit Salunke, HOD-Mechanical Department. They had entered the Zonal Rounds of DRDO Competition "DRUSE" in 2018 and the project was selected for India International Science Festival 2018 at Lucknow among top 22 projects in "Make in India" Category & among 100 from 2200 entries. They also won 2nd place at FSIE 2019 at Mumbai and were selected to represent Goa University at Anveshan 2019, All India UGC Competition at Udaipur. The wheelchair is presently donated to a disabled girl by an NGO. They are also fabricating three more wheel chairs as part of CSR activity of a Goa Based Industry.

They were supported by Mr. Sudip Faldessai, Project Officer, Goa State Innovation Council in their quest for entrepreneurship. Fr. Kinley D'Cruz, Director, Dr. Neena Panandikar, Principal congratulated Deepak and his team for their splendid achievements in the field of entrepreneurship at such an early start of their career.

EXPERT TALK ON THE TOPIC 'USE OF AUGMENTED REALITY FOR ENGINEERING EDUCATION'

The IETE Student Branch of Don Bosco College of Engineering, Fatorda-Goa organized an expert talk on the topic, 'Use of Augmented Reality for Engineering Education' under the IETE Goa Chapter. The talk was held on 16th October. Talk was open for faculty of various branches and also for interested students.
The talk was delivered by Dr. Jonathan Joshi, CEO of Eduvance. Eduvance is a premier training centre based in Mumbai which trains engineering students

and faculty in various domains. They have also launched an app to teach students using Augmented Reality (AR).

After the talk there was a healthy discussion among the expert and attendees wherein the expert cleared any doubts on the topic of AR. Before calling it a day, the expert encouraged faculty and students to use AR for better understanding of engineering subjects and knowledge impartation.

Mr. Savio Carvalho delivered a presentation about the company Turbocam wherein he covered the history products and locations of Turbocam across the globe. He gave an insight into the various CNC machining operations, Quality check using sophisticated equipment like CMM, non destructive testing etc. taking place inside the plant.

The presentation was followed with a tour of the plant premises which included the Design, Production and Quality Assurance Departments.

CIVIL ENGINEERING DEPARTMENT

FIELD VISIT TO FLOOD WATER PUMPING STATION, SANKHALI

The Final year Civil Engineering students visited the Water Resources Department's Flood water pumping station at Sankhali, Goa on 23rd August 2019 along with Prof. Akshata A.S Kudchadker and Prof. B. R Anirudha.

CESA INAUGURAL 2019-2020

The installation ceremony of CESA council for the year 2019-2020 was held on 13th September, 2019. Er. Anil Ringane Chief Engineer - Sports Authority of Goa was the Chief Guest. Director -Rev. Fr. Kinley D'Cruz, Principal - Dr. Neena Panandikar, Head of Dept.- Dr. Shwetha Prasanna, Faculty Coordinators - Prof. Satyesh Kakodkar and Prof. B.R. Anirudh and outgoing chairman Mast. Yash Ajgaonkar were present on the dais.

Earlier, Mast. Yash Ajgaonkar welcomed the gathering while outgoing secretary Mast. Saish Karwarkar presented the report of activities of 2018-2019. Prof. Satyesh Kakodkar administered the oath to the new council while Chief guest- Er. Anil Ringane pinned badges to the new council members.

Mast. Yash Ajgaonkar handed over the CESA helmet to the new chairman Mast. Godwin Fernandes and then the new chairman took his place on the dais.

Dr. Neena S.P. Panandikar addressed the gathering and congratulated the new CESA council members along with all the students who excelled in studies and competitions held in the year 2018-2019. Rev. Fr. Kinley D'Cruz addressed the gathering and said that associations like CESA provide a platform to showcase the students with their talents.

Er. Anil Ringane, in his address said that the college has done a lot of progress in a span of few years. He said that Civil Engineering is the mother of all other branches and based on the needs in civil industry other inventions happen.

The students who excelled in academic year 2018-2019 were felicitated. The Chief Guest also distributed certificates of AutoCAD workshop held. The Chief

Guests also released the Sankriti Souvenir.

Mr. Godwin Fernandes proposed the vote of thanks. Miss. Berny Dias compared the programme. In latter half, Er. Sumesh Mahale, Directorate of Archives and Archaeology presented a lecture on Conservation of heritage structures. In the second half of the day there were various events for the students which included mobile photography, AutoCAD drawing, quiz, debate and block painting.

TALK ON SCOPES OF CIVIL ENGINEERING

The Department of Civil Engineering organized an Alumni talk for Final Year Civil Engineering students on 26th September 2019 at the institute. The sessions were conducted by Mr. Akshay Gaad (Alumnus-2015). Mr. Akshay spoke to the students on scopes of Civil Engineering after graduation. He shared his experience working at GSIDC where he supervised for various roadwork carried out by them. He also spoke of his present job where he is carrying out survey and contracts.

ASIAN CIVIL ENGINEERING CONFERENCE

The Institution of Civil Engineers (India) hosted 20th Anniversary Celebration of ACECC (Asian Civil Engineering Coordination Council) on 27th September, 2019 at Cidade De Goa Vainguinim Beach, Goa.

It was inaugurated by Dr. Pramod Sawant, Hon'ble Chief Minister of Goa. Dr. Shwetha P and Mrs. Swaroopa Sail along with 56 students of Civil Engineering department attended the seminar on "Improvement to Engineering Governance through Common Ethics Standards" and "The application of geo-synthetics for various Civil Engineering disciplines" organized on this occasion.

SECOND YEAR STUDENTS VISIT RESIDENTIAL HOUSE

On 28th September 2019 a site visit was organised for second year Civil Engineering students by Prof. Kaushik Pai Fondekar and Prof. Starina Dias.

The Students visited a Duplex Bungalow where they got an opportunity to see stacking of cement bags that were protected from dampness, Open Newel Staircase, Bay windows, Fly Ash bricks that were provided for partition walls, Sunken slab used in bathroom for plumbing purpose, overlapped TMT bars extending from the columns were observed.

FIELD TRIP TO THE ACC RMC PLANT, NESSAI

The second year Civil Engineering students visited the RMC plant of ACC at Nessai on 28th September 2019. At the site Mr. Rahul Gaonkar (Head Sales and Marketing) welcomed the students. He started off by explaining about the founding of ACC.

He described the research work done on various materials used by them over time in concrete to strengthen it.

He went on to mention that over time, ACC RMC plants had covered the whole of Goa, that being at Kundaim, Nessai, Vasco and Dhargal. Lastly he pointed out the various achievements ACC had accomplished in the concrete construction industry over the years.

Lastly, the students saw the in - house Quality Control laboratory where concrete consistency is stringently maintained.

FIELD TRIP TO THE DISTRICT AND SESSION COURT COMPLEX, MERCES

The Second year Civil Engineering students visited the new District and Session court at Merces on 28th September 2019 along with Prof. Starina Dias and Prof. Kaushik Fondekar.

FIELD VISIT TO VASCO PORT CONNECTIVITY PROJECT

The third year Civil Engineering Students were taken for a field visit to Vasco Port Connectivity Project on the 28th September 2019.The students were accompanied by Prof. Oswyn Soares, Prof. Prachi Dessai and Prof. Akshata A.S Kudchadker. This project was undertaken by Gammon Infrastructure Projects limited in the year 2015.

Mr. Prakash Bramapurkar, Project In-Charge and Mr. Ashwin Karkigave gave an hour long session educating the students on their road to success starting with the Construction of the Gate Way Of India, which paved the way for a rich history of construction since the 1919's. Some of their notable constructions in India have been the Cable Stayed Bridge in Sikkim, the Railway Tunnel in Maharashtra, the Nuclear Reactor in Kalpakkam and the notable one in Goa being the Zuari Bridge.

FIELD VISIT OF BE CIVIL STUDENTS

The Final year students of Civil Engineering Department, along with two faculty members, Prof. Prachi Dessai, Prof. Oswyn Soares and Mr. Shantanu Desai visited Sewage treatment Plant, at Tonca- Goa on 11th October 2019.

MECHANICAL ENGINEERING DEPARTMENT

DBCE MECHANICAL STUDENTS WIN 3rd PLACE IN THE PROJECT EXPO AT AARUSH 2019

The Project titled "Design and Fabrication of Glass Powdering and Grading Machine for Various industrial Applications" by Shivdas Gaad, Rajat Halarnekar, Rajat Naik, Ranjeet Naik and Sahil Naik of Mechanical Engineering Department, under the guidance of Prof. Suraj Marathe secured 3rd place in Mechanical projects category in the 5th edition of National Level Industry Institute Convention AARUSH 2019 held on 13th and 14th August 2019 in association with Bhaba Atomic Research Centre (BARC), Goa State Council for Science and Technology, Goa Technology Association (GTA) and CIBA. There were around 12 projects for display in the Mechanical category.

TALK ON GAS TURBINES AND ROCKET ENGINES BY COMMANDER CARVALHO

A talk on Gas turbines and Rocket engines was delivered by Commander Carvalho to the students of BE Mechanical, on 23rd August 2019. Commander Carvalho talked about various types of gas turbine engines, their operation and uses. He touched upon the use cases of engines in aircrafts and helicopters while also talking about the working principles of aircrafts themselves and their operating requirements. He spoke about various sub systems of military aircrafts stressing on ejection systems and their propulsion systems.

He then proceeded to enlighten the audience about rocket engines. He initiated the topic by highlighting the achievements of the latest ISRO mission to the moon. He spoke about the solid rocket boosters which powered the launcher thus initiating the topic of types of rocket engines. He spoke about the combustion chamber patterns present in solid rocket motors. Commander Carvalho also spoke about basic topics of engineering.

Commander Carvalho spoke about career in the Navy and the merchant navy. He spoke about various opportunities available. The selection process for each of these domains as well as physical requirements for the same was covered .

Students had an opportunity to interact with a veteran of the services and a really learned individual. Prof. H. K Amarnath presented Commander Carvalho with a token of appreciation on behalf of DBCE. The talk was organized and coordinated by Prof. Pravin Verekar, Prof. Achintya Kambli & Prof. Raymond Joseph.

INSTALLATION OF CHAPTER WORKING COMMITTEE OF ISHRAE DBCE STUDENT CHAPTER 2019-2020

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 2019-20 on 24th August 2019. The installation was graced by Chief Guest Mr. Dipak Desai, Director- Directorate of Skill Development and Entrepreneurship, Guest of Honour Mr. Santosh Naik, President - ISHRAE Goa Chapter, while Mr Rajendra Kerkar, Environmentalist was invited as a key note speaker. Rev. Fr. Kinley D'Cruz, Director, Dr Neena Panandikar, Principal and Prof. Ajit Salunke, Faculty Advisor & HOD, Department of Mechanical Engineering were also present for the function.

Mr. Desai urged students to be passionate, dedicated and develop a knack for perseverance while working towards their goals. Mr. Naik briefed the students about the various initiatives and activities of ISHRAE and encouraged students to join Indian Navy. Fr. Kinley quoting Albert Camus thanked ISHRAE for walking besides us, handholding, mentoring & providing support towards bridging Institute-Industry Gap. Dr. Panandikar urged students to make best use of the Chapter for their academic growth and career prospects and highlighted the need for HVAC Engineers and Consultants in the present growing Industrial and Commercial Infrastructure sector. Prof. Salunke welcomed the gathering and briefed the gathering with an overview of the activities conducted by the DBCE ISHRAE Chapter during the year 2018-19.

An Expert Talk on 'Biodiversity of Goa' was delivered by Mr Rajendra Kerkar. He briefed the students on various indigenous plants, their medicinal properties and wild animals found in Goa.

Prof. Monish Borkar, Students Chair, ISHARE Goa Chapter administered the oath to the newly elected Chapter Working Committee, comprising of Mr. Johan Godinho– President, Mr Keegan Pinto– Secretary, Mr. Steven Fernandes – Treasurer, President Elect- Mr Vivian Viegas and CWC members, Mr. Jeet Pahari and Mr. Akhil Kupassad.

The event concluded with Mr. Johan Godinho, President - ISHRAE DBCE Students Chapter, proposing the vote of thanks. The event was coordinated by Prof. Tanay Rege and compered by Mr. Kegan Pinto and Mr. Reuben Gouveia

PROF. AJIT SALUNKE DELIVERS TALK ON 3 D PRINTING IN THE PHARMACUETICAL INDUSTRY AT SANOFI SYNTHELABO (INDIA) PVT. LTD.

Prof. Ajit Salunke, HOD- Mechanical Dept. delivered a talk on "3 D Printing in the Pharmacuetical Industry" at Sanofi Synthelabo (India) Pvt. Ltd. , Verna on 24th August 2019. It was attended by around 52 R & D professionals & engineers.

Prof. Salunke gave a brief overview of 3 D printing, it's scope & potential in pharma industry, ongoing research in 3 D printing of Oral Dosage Forms, 3 D bioprinting of tissues & organs and reverse engineering. He showed videos of research work carried out at St. John's University, USA, TNO Netherlands, UCL School of Pharmacy, London and the 1st 3 D printed commercially available drug.

Prof. Gaurish Samant demonstrated the patterns of tablet, capsule & blister pack which were 3 D printed in Don Bosco College of Engineering lab. Later on, discussions was held with the Innovation team of Sanofi to explore the possibilities of joint research in the field. The talk was coordinated by Mr. Prasad Adpaikar, Manager- engineering & Operations.

INDUSTRIAL VISIT TO CUNCOLIM INDUSTRIAL ESTATE FOR SE MECH - I

On 24th August 2019, the students of Second Year

Mechanical Engineering visited Sri Shanta Pumps Pvt. Ltd, Roto Technie Pvt. Ltd and Sunrise Electromelt Limited at Cuncolim Industrial Estate. It was organised under Mechanical Engineering Students Hub (MESH) of Mechanical Engineering Department. Sri Shanta Pumps has varied business profile and manufactures pumps, parts of Ceiling fans, blades and stator winding operations. The students got a glimpse of various processes in the manufacturing of blade components. It included cutting of blade from aluminium sheet, bending it to predefined angle, degreasing of blades, powder coating, baking, asembling it with shank and final inspection procedures.

A HANDS ON SESSION ON FIRE SAFETY & USE OF FIRE EXTINGUISHERS CONDUCTED BY DBCE FSAI CHAPTER

The Fire & Security Association of India(FSAI), DBCE Chapter and the students of elective Industrial Safety and Environment, Mechanical Department, organized a training session on Fire Safety & use of Fire Extinguishers on 27th August 2019 for the students of the institute.

GOA PHARMACEUTICAL MANUFACTURER'S ASSOCIATION AGM AT PANAJI GOA

The Goa pharmaceutical Manufacturer's Association (GPMA) organised their annual AGM on 30th August 2019 at Hotel Mandovi at Panaji, Goa. Prof. Ajit Salunke, Associate Prof. & Head, Department of Mechanical Engineering and Prof. Swapnil Ramani,

Assistant Professor, Department of Mechanical Engineering attended the same. Mrs. Jyoti Sardesai, Director, Food and Drug Administration (FDA), Govt. of Goa was the chief guest for the event.

Dr. Praveen Khuller, President of GPMA in his address highlighted the various activities carried out by the association in 2018-19. He thanked all the stakeholders for their support and promised more activities in the coming year. A MoU was signed between Vibrant Goa and GPMA during the event. Various activities and achievements of Vibrant Goa were highlighted by their members. The chief guest praised GPMA for maintaining the highest quality standards and being a disciplined, united association in the state of Goa. Mr. Kishore Shah, Director, Ideaz Unlimited delivered a session on "10x improvement" in which he focussed on role of behavioural economics, emotional connections with sub ordinates and out of the box innovative thinking for growth of an organisation. Mr. Mahesh Gurunasinghani, Secretary, GPMA proposed the vote of thanks.

2 DAY REFRESHER COURSE ON REFRIGERATION AND HVAC

A refresher course on "Refrigeration and HVAC" was organized by the Mechanical Department in association with ISHRAE on 30th August to 31st August 2019.

Mr. Tanay Rege, Program coordinator, introduced the workshop and explained the need to know about the technology that is associated with Refrigeration and HVAC and also briefed on the schedule of the workshop.

The first session on day 1 commenced with the key note address by Mr. Tanay Rege, Assistant Professor DBCE, who gave a brief insight on "Fundamentals of Refrigeration". The next session was by Mr. Ishan Kossambe, Assistant Professor DBCE who explained "Fundamentals of Psychrometry and Psychrometric Processes". Third session for the day was given by Mr. Prakash Naik, Manager GSL who gave in-depth knowledge on "Indoor Air Quality". This session was followed by a session on "Ventilation" by Dr.

Jagannath Hirkude, Associate Professor Goa College of Engineering.

The second day of the workshop commenced with a session on "Heating & Cooling Load Calculations" by Mr. Kedar Acharya, Executive Application Engineering Schindler India Pvt. Ltd.

The next session for the day was delivered by Mr. Balkrishna Chodankar, Lecturer in Mechanical Engineering (Selection Grade) at Government Polytechnic Bicholim on "Energy Audit". The Post lunch session was delivered by Mr. K B Kulkarni, Owner of Comfort Services. He delivered a session on "Maintenance of HVAC Systems".

This two day refresher course finally came to conclusion with a valedictory session presided by Chief Guest, K B Kulkarni. The participants were awarded a certificate by Prof. Ajit Salunke, HOD-Mechanical DBCE. The feedback given by the participants was overwhelming.

The workshop was attended by 17 industry professionals, 4 faculty from academic institutes and 40 final year mechanical engineering students.

ONE DAY WORKSHOP ON "AUTOCAD"

The DBCE Student's Chapter of Institution of Engineers (India) organized a one day workshop on "AutoCAD" in association with Institution of Engineers (India), Goa State Center and Department of Mechanical Engineering Department, DBCE for second year students of Mechanical engineering on 31st August 2019 in the college campus. In all , 58 students attended the workshop.

TE MECH FIELD VISIT TO GODREJ & BOYCE, SHREE MAHALAXMI INDUSTRIES, NETZSCH PUMPS AND VINKA INDUSTRIES

On 31st August 2019, students of Third Year Mechanical Engineering students visited Godrej & Boyce, Shree Mahalaxmi Industries at Madkai industrial Estate and Netzsch Pumps, Vinka Industries in Verna Industrial Estate. The visit was organized in association with Mechanical Engineering Student Hub (MESH). Students were accompanied by Prof. Ajit Salunke, Prof. Swapnil Ramani, Prof. Sanjeel Naik and Prof. Gaurish Samant.

TECHNICAL ACTIVITY CARRIED OUT BY CENTRES / OVERSEAS CHAPTERS

On 31st August 2019 the Department of Mechanical Engineering organized a one day workshop on Automobile Engineering for SE Mechanical-II Engineering students in association with Institution of Engineers (India), DBCE Student chapter. The topics covered during the talk were basics of IC engines, Cooling and lubrication system for automobiles and electric vehicles. Prof. Raymond Joseph gave an overview of electric vehicles. He told the students that in recent years, many existing automobile manufacturers and new dedicated companies have put a remarkable effort in transforming the conventional vehicle into an electric vehicle that provides green and reliable solution. In terms of market share, electric vehicles demand is raising. With revolutionized perspective and competitive price electric vehicles is a smart choice for any end user, however, an extra effort is required to enhance the range of autonomy and vary applications. Prof. Sharad Shanbhag gave a lecture on basics of Automobile engineering, working principles of 4- stroke petrol and diesel engines. Prof. Saurabh Raikar spoke about the need for lubrication, cooling and transmission systems. He explained the different types of lubrication and cooling systems. The students were then taken to the automobile lab where the cut sections and models of different components of automobiles were shown. Different working videos of automobiles were also shown to the students. The workshop was coordinated by Prof. Sharad Shanbhag.

ROBOTICS WORKSHOP FOR STUDENTS OF DR. K B HEDGEWAR VIDYALAYA, PONDA

MecHeads mechanical students club formed under MESH conducted robotics workshop for the school students of Dr. K B Hedgewar Vidyalaya, Ponda on 21st September 2019. This club is formed to organize community development programs and also assist the department in training students in the areas like Robotics, Automation, Computer Aided Drafting and Modeling. The resource persons were Mr. Tanmay Bhagat, Mr. Bahar Phadte, Ms. Malaika Korgaonker, Ms. Priya Ghogale, Mr. Ruturaj Phadte, Mr. Siddhant Panjikar and Mr. Sejel Martins, students from third year Mechanical Engineering.

DBCE ORGANIZES WORKSHOP ON IOT & ITS SAFETY APPLICATIONS

The Mechanical Engineering Department organized a one day workshop on IOT & its Safety Applications for the students of the institution in association with Fire & Security Association of India (FSAI), Goa Chapter on 28th September 2019. The resource person for the workshop was Ms. Sunaya Shirodkar, Director of Asier Solutions Pvt. Ltd.

The topics covered were Arduino, Node MCU and its practical applications. Around 35 students attended the program. For the valedictory function, Mr. Vinod Rodrigues, CWC member of FSAI, Goa Chapter was present as the chief guest. He spoke about importance of technology in Fire Safety & security and elaborated on a tagline 'Protect the Protector'.

Rev. Fr. Kinley D'Cruz mentioned about sharing the knowledge they have gained with others. Then the certificates were distributed to the participants. The program ended with vote of thanks by Mr. Tejas Pandit, FSAI, DBCE Chapter President. Prof. Ajit Salunke, HOD Mechanical and Prof. Saurabh Raikar were the coordinators for the workshop.

INTERNATIONAL CONFERENCE ON INNOVATIVE SUSTAINABLE COMPUTATIONAL TECHNOLOGIES AT GRAPHIC ERA UNIVERSITY, DEHRADUN

The International conference on Innovative Sustainable Computational Technologies (CISCT 2019) was held on 11th and 12th October 2019 at Graphic Era University, Dehradun, Uttarakhand. It was sponsored by IEEE, CSIR and Science & Technology Council, Govt. of Uttarakhand. The research paper titled "Glass Cleaning Robot for High Rise Buildings" was presented at the conference by Prof. Ajit Salunke, HOD, Department of Mechanical Engineering, DBCE, Goa and Prof. Swapnil Ramani, Assistant Professor, Department of Mechanical Engineering, DBCE, Goa. The research work dealt with the design and fabrication of glass cleaning robot to eliminate the hazards and improve the effectiveness of the glass cleaning process. The session chair was Dr. P. Sateesh Kumar, Associate Professor, Department of Computer Science & Engineering, Indian Institute of Technology (IIT), Roorke. The work was appreciated at the conference by the session chairs and suggestions; & motivation to carry out the work on a larger scale eventually leading to commercialisation of product was also given.

The conference concluded with the valedictory function where the paper presenters were handed out certificates. The conference was an enlightening and enriching experience for the faculty members.

PROF. SAURABH RAIKAR INVITED AS A RESOURCE PERSON FOR AUTOCAD WORKSHOP AT GEC

Prof. Saurabh Raikar from Don Bosco College of Engineering was invited as a resource person for a workshop on AutoCAD organised by Mechanical Engineering Students Association at Goa College of Engineering on 26th October 2019. Around 60 students from second and third year Mechanical Engineering Department, GEC attended the workshop. The topics covered were basics of CAD, layout, tools and commands in AutoCAD software. Prof. Milind Sakhardande from Mechanical Department, GEC was the faculty coordinator for the workshop.

ELECTRONICS AND TELECOMMUNICATION ENGINEERING DEPARTMENT

WORKSHOP ON "CIRCUIT DESIGNING"

The Department of Electronics and Telecommunication Engineering in association with the DBEATS (Don Bosco Electronics and Telecommunication Society) organized a one day workshop on "Circuit Designing" for the students of SE ETC on 24th August, 2019. The sessions were conducted for the students by faculty members, Prof. Deron Rodrigues and Prof. Melba D'Souza.

THREE DAYS IEEE SKILL DEVELOPMENT HAND'S ON WORKSHOP ON "MACHINE LEARNING & DEEP LEARNING"

IEEE student's branch, DBCE organized a three days Skill Development Hands-on workshop on "Machine learning and Deep learning" in association with IEEE Bombay section for the students of third year and final year ETC and Computer department students & faculty members on 23rd, 24th and 25th August 2019 coordinated by IEEE Branch Counselor, Prof. Yeshudas Muttu. The resource person for the workshop was Prof. Santosh Chapaneri from St. Francis Institute of Technology, Mumbai, recognized & registered to conduct IEEE Skill Development workshops under IEEE Bombay Section. The main objective of this workshop was to provide an overview of Python programming language & provide a hands-on experience on Machine learning and Deep learning.

SECOND YEAR (S.E.) VISITED SIEMENS FACTORY AT VERNA

On 27th August 2019, the second year Electronics and Telecommunication students visited Siemens Factory at Verna. A total of 60 students visited the manufacturing plant. From there they went to the conference hall where the head of CIBA explained us how they are empowering start-ups and entrepreneurship and encouraging girls under the scheme of "Green light to girls" as a positive step towards equality. CIBA believes in "not in getting a job but in creating a job".

EDUCATIONAL FIELD TRIP

To tune with the academics, the department of Electronics and telecommunication Engineering organized a field trip to CSIR- National institute of Oceanography (NIO) and Bosch on 27th August 2019 for the students of Sem-V and were guided by Prof. Mohini Naik, Prof. Yeshudas Muttu and Prof. Priyanka

Padiyar. Firstly, the students along with the teachers visited CSIR-NIO from where they went towards the visitors area.

There was Marine Aquarium of simulated coral reef system, NIO technology of Autonomous Vertical Profile that profiles the coastal water, Autonomous Underwater Vehicle (MAYA) for detection of hypoxia in fresh water, reservoirs and dams.

FIELD TRIP AT ONGC

On 27th August 2019, the Electronics and Telecommunication Engineering Department organised a field trip for the students of BE ETC accompanied by Prof D.S Vidya and Prof Mathilda Colaco at ONGC Betul, Goa.

E-YANTRA LAB SETUP INAUGURAL AND VALEDICTORY FUNCTION OF TASK BASED TRAINING (TBT)

The e-Yantra Lab setup Inaugural and Valedictory function of Task Based Training held on the 30th August 2019 at 3:00pm. The ceremony started with an opening address by the e-Yantra Team. The floor was then transferred to the participating colleges.

The function at DBCE commenced with lighting a lamp and symbolic ribbon cutting ceremony by the Director, the Principal and the Head of ETC Department. Subsequently, the Director Rev. Fr. Kinley D'Cruz addressed the gathering, where he stressed upon the benefits of setting up the lab in promoting a culture of project based learning in Embedded Systems and Robotics.

This was followed by the opening of the e-Yantra signage which symbolically declares the Lab inaugurated. Dr. Varsha Turkar then handed over the

robotic kit to Team Leader Prof. Flavia Leitao.

The e-Yantra Faculty Team, comprising of Prof. Flavia Leitao, Prof. Yeshudas Muttu, Prof. Mathilda Colaco and Prof. Deron Rodrigues were felicitated for successfully completing the task based training. The team was awarded Grade A in this training.

The floor was transferred back to IITB e-Yantra team, where they welcomed the Don Bosco College of Engineering to the e-Yantra family by using a "Diya Application".

Prof. Kavi Arya, Principal Investigator, e-Yantra IITB, discussed the various opportunities and future prospects under e-Yantra.

Thereafter the student's e-Yantra team was installed. The students were awarded certificates for participating in the workshop on "Firebird Robot". The inaugural function concluded with a vote of thanks by Prof. Flavia Leitao.

8TH INSTALLATION OF DBEATS COUNCIL

The 8th Annual Installation of DBEATS (Don Bosco Electronics and Telecommunication Society) was held on 31st August 2019 at 10:00am in the College Auditorium.

The Chief Guest for the function was Dr. Nithin Kumar Y. B, Head of Electronics and Communication Engineering, NIT Goa. Besides the Chief Guest, the occasion was graced by the presence of Dr. Neena Panandikar, Principal, Fatorda, Dr. Varsha Turkar, Head of ETC Department, Prof. D. S. Vidhya and Prof. Deron Rodrigues- DBEATS Faculty Coordinators and Mr. Nixon Coutinho – DBEATS Chairperson as the dignitaries on the dais.

The ceremony commenced with a welcome prayer recited by Ms. Sibga Shaikh followed by the lighting of the traditional lamp by the dignitaries. A short video of D-BEATS activities held during the year 2018-2019 was played.

The new DBEATS council members were then introduced by Prof. Deron Rodrigues and were welcomed by Dr. Varsha Turkar and Prof. D. S. Vidhya with flower and badges. This was followed by the oath taking ceremony by the following elected members:

Chairperson - Mr. Nixon Coutinho (BE ETC)
Vice-Chairperson- Mr. Renvick Fernandes (TE ETC)
Secretary- Mr. Shahil Ibrahim (TE ETC)
Joint Secretary- Mr. Eshan Korgaonkar (SE ETC)
Treasurer- Mr. Pranav Khedekar (BE ETC)
Editor- Ms. Neha Joshi (SE ETC)
Executive Members-
1. Ms. Riddhi Lotlikar (BE ETC)
2. Ms. Vrunda Asolkar (BE ETC)
3. Mr. Suyog Borkar (TE ETC)
4. Ms. Madhavi Satarkar (TE ETC)
5. Mr. Saiesh Naik (SE ETC)
6. Ms. Rosann Godinho (SE ETC)

Thereafter, the dignitaries were escorted to the dais and welcomed with floral bouquets. Dr. Neena Panandikar, in her welcome address to the gathering congratulated the faculty and students of ETC department for their various achievements in the recent past and encouraged them to conquer greater heights.

Prof. Mathilda Colaco, introduced the Chief Guest, Dr, Nithin Kumar Y. B, Head of Electronics and Communication Engineering, NIT Goa and welcomed him to address the gathering.

The Chief Guest, in his address emphasized on thinking beyond one's own stream of education. He encouraged students to work with other disciplines in sharing ideas to build up projects.

As a token of appreciation, Dr. Neena Panandikar presented a memento to the Chief Guest. The vote of thanks was delivered by Ms. Neha Joshi, Editor of DBEATS student's council. The event was compered by Ms. Priya Kamat.

EXPERT TALK ON "VLSI RESEARCH ACTIVITIES"

The Installation ceremony was followed by a Technical talk on "VLSI Research activities", delivered by the Chief Guest, Dr. Nithin Kumar Y. B, Head of Electronics and Communication Engineering, NIT Goa.

In his talk, he spoke about recent low-power VLSI technology. He commenced with the basics of MOSFET's, its small signal models and variation with various design parameters. He discussed about the design of Low Power, High Speed Error Tolerant Multiplier Using Approximate Adder, Low-Power Auxiliary Circuit for Level-Crossing ADCs in IoT-Sensor Applications and Low Power DTMOS OTA-C Filter for ECG Sensing Applications. The students got an insight of different projects that can be taken up in mixed VLSI and Low Power design. The expert talk was coordinated by Prof. Deron Rodrigues and Prof. D. S. Vidhya.

WORKSHOP ON INTRODUCTION TO MICROCONTROLLERS USING ESP8266 NODEMCU

The Electronics and Telecommunication Engineering Department along with DBEATS Council organized a workshop on Introduction to Microcontrollers using ESP8266 NodeMCU for the students of FE ETC on 27th and 28th September, 2019. The workshop was conducted by Mr. Rohit Sardessai and Mr. Siddhesh Nayak, who are both Alumni students of Don Bosco College of Engineering.

This workshop aimed to demystify the Arduino microcontroller through hands-on work in the lab writing simple codes and testing them. It brought the students over the beginner's threshold to a basic

understanding of the use, terminology, and potential of the Arduino.

INAUGURAL FUNCTION OF TECHNICAL FEST- TECHNOVA 2019

TECHNOVA 2019, a two day technical fest of the Electronics and Telecommunication Engineering Department commenced with the formal inaugural function on 17th October 2019 at 10.00 a.m. in the college auditorium. The Chief Guest for the function was Dr. Jonathan Joshi, C.E.O. Eduvance. The occasion was graced by the presence of the Director, Rev. Fr. Kinley D'Cruz, Principal, Dr. Neena Panandikar, Head of ETC Department, Dr. Varsha Turkar, TECHNOVA Coordinators, Prof. Michelle Araujo e Viegas, Prof. Melba D'Souza, DBEATS coordinators, Prof. Deron Rodrigues, Prof. D. S. Vidhya and Technova student coordinator Mr. Nixon Coutinho.

The ceremony commenced with a prayer invoking God's blessings followed by lighting of traditional lamp by the dignitaries. TECHNOVA Coordinator Prof. Melba D'Souza gave an insight of the event that would unfold in the next two days which was followed by a teaser video of 'TECHNOVA 2019'.

Principal, Dr. Neena Panandikar, congratulated the students of BE ETC who have been recently campus placed and appreciated the efforts of the faculty for signing MoU at the recently opened "Centre of Excellence for Employability Enhancement".

Director, Rev. Fr. Kinley D'Cruz in his address appreciated the efforts put in by the entire Technova team and encouraged the students to be creative, innovative and motivated them to hone their skills by participating in various such technical events.

The Chief Guest, Dr. Jonathan Joshi, highlighted the importance of technical events in a student's life and encouraged them to ponder on what technical aspect they lag and work on their shortcomings so that they can evolve professionally and be industry ready by the time they graduate. He concluded his address by stressing on the fact, that hardwork is the only way a person can achieve success in their life.

The meritorious students of the 2015-19 batch and the former DBEATS council members were felicitated during the function. As a token of appreciation, Rev. Fr. Kinley D'Cruz presented a memento to the chief guest.

The inaugural function concluded with a vote of thanks proposed by the DBEATS Coordinator Mr. Deron Rodrigues.

TECHNICAL FEST - TECHNOVA 2019

The Department of Electronics and Telecommunication Engineering in association with DBEATS organized a two-day state level inter-collegiate technical festival, TECHNOVA 2019 on the 17th & 18th of October 2019.

The tech-fest aimed to bring together students from various colleges across the state of Goa and provide them a platform to showcase their talents and innovative skills with a competitive spirit. Besides that it provided an opportunity to get exposed to the current trends in technical and professional fields by interacting with industry experts and students from other colleges.

The event was inaugurated by Dr. Jonathan Joshi in the presence of the Director, Rev. Fr. Kinley D'Cruz, Principal. Dr. Neena Panandikar, TECHNOVA 2019 coordinators and DBEATS Coordinators.

The fest comprise of a total of 16 events, each organized at its best of quality. Most of the events had a preliminary qualifier round followed by the semi-finals and final round. The various Technical Events held were, Line Follower, Robo Sumo, Robo Soccer, Circuit builders, IoT Masterchef, Code

Warriors, Chart It Out, Tech Buzz and Technical CrossWords. Whereas the Skill Development Events comprised of Brain Jammers, Frame It, Speak up Stand Out, Sell It Out, Minute to Win It, Short Film and the Gorgons Gambit.

This year TECHNOVA 2019 received an overwhelming response in all its events and attracted a huge crowd from colleges like Goa Engineering College, Padre Conceicao College of Engineering, Rayeshwar Institute of Engineering and Information Technology, V.M. Salgaonkar institute of International Hospitality Education, Agnel Institute of Technology and Design, etc.

A Workshop in association with IETE and FiiRE was organised on "PCB design and Fabrication" on 17th October 2019. The resource person was DBCE alumnus Mr. Toshal Madkaikar.

A seminar in collaboration with IEEE on "First aid using Electronic Technology", by Dr. Jeedhu Radhakrishnan and his team was conducted on 18th October 2019, wherein he briefed the students on First aid and its importance during emergencies.

The valedictory function was held on 18th October 2018. The Chief Guest for the function was Mr, Ryan Pinto, CEO of Innovantix. Bringing out the importance of technical events he said that such events instill ideas of imagination, thus causing students to think out of the box. He wished that the element of curiosity should flourish among the students so that they prepare themselves for the dynamic scenario in the industry today, thus coping up with the current pace of innovation. He emphasized on the need of students figuring out what the society needs, by constantly questioning the status quo.

Thereafter, all the first and second place winners were encouraged with cash prizes. The overall winner of TECHNOVA 2019 was Goa College of Engineering, Farmagudi.

The valedictory function concluded with a vote of thanks by Prof. D. S. Vidhya. The entire event was coordinated by TECHNOVA 2019 Faculty coordinators Prof. Melba D'Souza and Prof. Michelle

Araujo e Viegas and DBEATS coordinators, Prof. Deron Rodrigues and Prof. D.S. Vidhya. Mr. Nixon Coutinho and Mr Renvick Fernandes were the TECHNOVA student Coordinators.

"PCB DESIGN AND FABRICATION"

To fulfil the Industry goals and requirements, the Department of Electronics and Telecommunication (ETC) Engineering of DBCE in association with FiiRE (Forum for Innovation Incubation Research and Entrepreneurship) and IETE conducted a one day workshop on "PCB Design and Fabrication" on the 17th Oct, 2019, as a part of the tech fest "Technova 2019".

The workshop started with an introductory and interactive talk on "PCB Design". The resource person for the workshop was Mr. Toshal Madkaikar, Alumni of Don Bosco College of Engineering.

The circuit implemented on the PCB was an "Astable Multivibrator" Firstly the students were given brief explanation on the different stages involved in PCB designing. They were then given a hands-on training on Eagle Software, where the instructor took them step by step through Schematic creation, ERC, Netlist generation, Layout design, and DRC.

This was followed by Gerber and G-Code generation using Nvis Software which is required by the Nvis PCB Prototype Machine. The students were taught to generate Gerber and G-Codes for Milling, Engraving and Drilling, which were then imported to the PCB Prototype Machine. The students were shown how to use the Nvis PCB Prototype Machine for the PCB creation. The coordinators for the workshop were Asst. Prof. Flavia Leitao and Asst. Prof. Melba D'Souza. The students showed great zeal and enthusiasm in designing the PCB and the satisfaction and joy to see the final PCB was overwhelming. The workshop was a fruitful and a very successful event.

IEEE Student Branch hosts IEEEXTREME Coding Competition 13.0 at DBCE

IEEE Students branch of DBCE hosted worldwide 24 hours coding competition, IEEE Xtreme 13.0 from 19th

October 2019 (5:30 am) to 20th October 2019 (5:30 am). The event was proctored & well organized under the leadership of IEEE branch counselor, Prof. Yeshudas Muttu. IEEE student branch received great help from Prof. Mohini Naik, Lab Assistant Mr. Ignatius Dias & FiiRE.

IEEEXtreme 13.0 is a 24-hour online coding competition, within which a worldwide community of college and university students enjoy an engaging set of unique programming challenges. The event received 5015 teams registration from the entire globe, with each team comprising of maximum three members. Don Bosco College of Engineering had a total of 10 teams participating for the IEEE Xtreme 13.0. The objective of the event was to provide IEEE Student Members with a new and interesting activity, give them a challenge to embrace teamwork & increase the number of IEEE Student activities with a focus on the computer, programming and information technology fields. IEEE DBCE Students had an enriching experience to cross their thresholds throughout the event. The problem statements used to appear every hour which was very challenging that made students apply, develop leadership skills & inculcate team spirit. The event was encouraged by the Director, Fr. Kinley D'Cruz, Principal, Dr Neena Panandikar & HOD-ETC ,Dr Varsha Turkar. The 24-hour online coding competition ended on 20th October 2019 (5:30 am) wherein, Proctor for IEEEXtreme 13.0 Prof. Yeshudas Muttu appreciated the efforts put in by the IEEE student members & motivated them to be a part of IEEE to grab such more opportunities.

SEMINAR ON "FIRST AID USING ELECTRONIC TECHNOLOGY"

Don Bosco College of Engineering, Fatorda-Goa in Association with Manipal Hospital, Goa has organized a seminar on "First aid using electronic technology" under IEEE Student Branch, DBCE for the technical Fest TECHNOVA 2019. Around 70 students & 10 Faculty members atttended the seminar. Dr. Jeedhu Radhakrishnan, Department of Accidents & emergency, Kasturba Medical College & Hospital, Mangalore was the resource person for the day. He was introduced to the audience by IEEE Student member, Mr. Ashwin Faldessai. Dr. Jeedhu Radhakrishnan began his session with basic use of first aid, electronic technology in medical field, use of defibrillators, dealing with breathing problems, helping a choking adult, Hypoglycemia and the basic technique to deal with stroke by CPR method in emergency. Students were actually given a demo so as to how to deal with real time situations in case of injuries & environmental emergencies. They were later taken to explain the electronic equipment & first aid present in the ambulance. Mr. Sagar Prabhudesai, the marketing officer at Manipal hospital, explained how the ambulance functions and its use in case of emergency & the facilities that it provides. Everyone appreciated the Manipal hospital team for the good seminar delivered. The team effort was appreciated by presenting Mementos to Dr. Jeedhu Radhakrishnan & Mr. Sagar Prabhudesai by Dr. Varsha Turkar, HOD-ETC, IEEE Adviser and Prof. Yeshudas Muttu, IEEE Branch Counselor respectively. The Seminar concluded with a vote of thanks given by IEEE Student member, Mr. Raviraj Bhagat.

COMPUTER ENGINEERING DEPARTMENT

TE COMPUTER STUDENTS ATTEND DIGITAL MARKETING WORKSHOP

The C-CODES Students association in association with Department of Computer Engineering conducted a workshop on Digital Marketing for the students of TE COMPUTER on the 24th August 2019 in the seminar hall. It was an hour long session from 12pm-1pm. The resource faculty was Mr. Sudip Faldesai, Project Officer, Goa State Innovation Council (GSInC).The coordinator for the seminar was Prof. Merwyn D'Souza. The student coordinators were Miss Gouri Bhatikar and Mr. Alston Dias.

BE Computer Students attend YACC (Yet another Compiler Compiler Workshop)

C Codes Students Association in association with Department of Computer Engineering conducted a workshop on "YACC-Yet another Compiler Compiler" for BE Computer Students on 24th August, 2019. Resource person for this workshop was Prof. Sweta Morajkar, Assistant Professor, Computer Engineering Department and Coordinator was Prof. Merwyn D'Souza. The workshop was conducted from 2-3.30 pm in BE Computer Class. A total of 32 participants attended this workshop.

INSPIRUS 2k19

The Department of Computer Engineering, in association with C-CODES, organized for the third time, an intercollegiate event called INSPIRUS 2k19- Make it Happen. It was a national event, where students in and around Goa attended and participated in various technical events held on 19th and 20th September 2019.

INSPIRUS has been a very successful event running for the past 2 years with maximum participation of students from various schools, higher secondary schools and colleges. Various events such as the first ever 24 hours continuous Inspirathon (hackathon) in association with FIIRE, Rubik's Cube, Mindspark, Scavenger Hunt, Framed, Designers' Paradise, Speed bugging, Code It Blind, Google Sketch up were organised.

The Chief guest for the inaugural function was Shri. Michael Lobo, Hon. Minister of Science and Technology, Waste Management and Port and Rural Development.

The event consisted of technical events along with some fun events and also two different workshops for students and faculties:

1) A Workshop On "Research in Big Data & Space Exploration" for faculty was scheduled during INSPIRUS 2K19 on 19th September 2019 from 9:30 am to 5:00 pm. The program helped the faculty to gain insight in the existing field of Big Data and details of space exploration. The resource person was Dr. Vithal Tilvi, a Goan-origin NASA scientist. Topics that were covered under the workshop were: General research techniques, Interdisciplinary big data sciences, Technology for future Space Colonization etc.

2) A Lecture series for students was organised on 20th September 2019 from 9.30 am -1.30 pm on the following topics:

1. UAV –Drones and FPV Multirotors by Mr.Rajdutt Kenkre, Alumini, DBCE Goa
2. Basic 3D Prototyping, Mr. Akhilesh Bhise, Founder INNOVENT
3. Building Information Modelling and Smart Homes by Mr. Fred Noronha, Founder SNCE
4. Redefining Agriculture with Technology by Mr.Harish Usgaonkar, CTO, LETCETRA AGRITECH

The two days event ended with a valedictory function. The Chief guest Mr. Joshua Peter De Souza (MLA, Mapusa constituency & Councillor, MMC) graced the occasion. Students of Goa Engineering College, Farmagudi emerged as the overall winners (College category) and Students of Smt. Parvatibai Chowgule College were declared as the Runner-up. In the higher secondary category, the team from Kings Higher Secondary School, Margao were announced as the winners.

CSI TECHNEXT INDIA – 19 ANNUAL INDUSTRY - ACADEMIA CONFERENCE AND AWARDS

Computer Society of India- Mumbai (CSI) hosted a 1 day ANNUAL INDUSTRY AND ACADEMIA CONFERENCE AND AWARDS "TechNext India

2019" on 28th September 2019, at WeSchool Auditorium, Matunga, Mumbai. This year at CSI TechNext India Conference, an award function recognizing academicians all over India for various categories was held. Prof. Gaurang Patkar was conferred with "Best faculty of the year funded research" award.
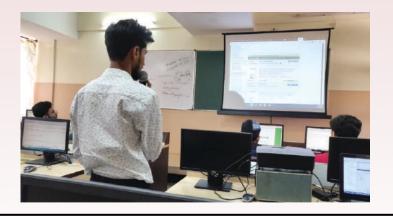
TE COMPUTER ATTEND FPV MULTITOTORS (DRONES) SEMINAR
(BEYOND THE SYLLABUS)

The Department of Computer Engineering in association with C codes organised a seminar on FPV multitotors (drones) on September 28th, 2019 . The seminar was conducted by Akshay Saraf , an alumnus of 2018 batch. The faculty coordinator of this seminar was Prof. Merwyn D'Souza. The student coordinators were Pooja Lolienkar and Rutvija Naik from TE Computer.

MySQL WORKSHOP

C-Codes Student Association along with the Computer Department organized a half day workshop on MySQL for students of second year Computer Engineering Department on 28th September 2019. The resource faculties for the workshop were Asst. Prof Amey Tilve and Asst. Prof Siya Naik.

SE COMPUTER ATTEND JAVASCRIPT WORKSHOP (BEYOND THE SYLLABUS)

Workshop on JavaScript was organised for the second year students of the Department of Computer Engineering by the student council of C-codes. The workshop was conducted on 28th September 2019 from 9.30am to 2.00pm. Resource people for the workshop were the alumni of Don Bosco College of Engineering Mr.Shubam Jha and Mr.Rahul Naik. They have their own start-up Internship Station at FIIRE, Fatorda. The faculty coordinator for the same was Prof.Merwyn D'souza and the student coordinators were Cyndroy Rebello and Astha.

PHP WORKSHOP

C-Codes Student Association along with the Computer Department organized a one day workshop on PHP for students of second year Computer Engineering Department on 12th October 2019 at Don Bosco College Of Engineering, Fatorda. The resource faculties for the workshop were Asst. Prof Amey Tilve and Asst. Prof Siya Naik.

WORKSHOP ON "LEARNING IMAGE PROCESSING THROUGH VIRTUAL LABS"

The Computer department conducted a workshop on Learning Image Processing through Virtual Labs for the students of BE COMP on the 12th October 2019 in the C1 lab. It was two hour long session from 2pm - 4pm organized by Prof. Janhavi Naik.

It started off with registering to IIT Bombay site. Total of 20 students attended the workshop. Total target of 6 experiments were given to the students.

The whole scenario was explained to students along with working and concept. The mode of working, selecting and running steps were explained to them. However some students completed 7 experiments. They submitted the feedback for the same.

These are the list of experiments of Image Processing Lab.

Distance and Connectivity

Image Arithmetic
Point Operations
Neighbourhood Operations
Image Histogram
Fourier Transform
Image Segmentation

Apart from completing experiments, various quiz and assignments were also attempted by the students. It was quite an innovative and interactive way to visualize and learn the concept through virtual labs.

SCIENCE AND HUMANITIES

7TH COUNCIL INSTALLATION – 'SEEDS'

The installation of the Students Association (SEEDS) Council for the academic year 2019-20 was inaugurated on 24th August 2019, in the presence of the Chief Guest Mr. Clinton Vaz, Director - Rev Fr. Kinley D'Cruz, Principal- Dr. Neena S. P. Panandikar, Registrar- Dr. Kala Nayak and Faculty Coordinators- Asst. Prof. Ulpa Waingankar and Mrs Maya Lin Noronha.

SEEDS- "Stairway towards Empowering Engineering Dreams to Success' which was initially installed in February 2014, was formed with the primary aim to provide a platform for the first year students to enhance their reasoning, creative ability and get them prepared to confidently face the challenges in the technical field. This year the theme for SEEDS 2019-20 is EcoTech.

The function began with a prayer song followed by the dignitaries along with staff coordinators and student council watering a budding plant as a mark of nurturing the plant that symbolizes the act of helping the students of the first year to grow into successful individuals and professionals.

Registrar- Dr. Kala Nayak administered the oath and introduced the newly inducted council members:

Chairperson- Ms. Ritika Ghanti
Treasurer- Mr. Mohammed Irfan Dukandar
Secretary- Mr. Jolton Rodrigues
Class members:
F.E. Mechanical 1– Mr. Nikarsh Bandekar
F.E. Mechanical 2 – Mr. Simron Rodrigues
F.E. ETC – Mr. Pradin Chitari
F.E. Computer- Mr. Nafiro Fernandes
F.E. Civil – Mr. Sanat Prabhudessai

Following this, Principal - Dr. Neena Panandikar welcomed the gathering thanking the outgoing SEEDS committee for their outstanding work and congratulated the new committee by encouraging them to achieve greater heights.

In his speech, Rev. Fr. Kinley D'Cruz spelt out the acronym of SEEDS to motivate the students to achieve success in all their endeavors. He said the stairway takes students and their abilities to the next level. He encouraged the students to take part in all events actively so that they grow and make things happen for them in a positive light. SEEDS is an opportunity to experiment with abilities of the students.

He told them not to chase success but do what you love and love what you do and success will automatically follow. He ended by saying , 'working on the right thing is more important than working hard'.

The Chairperson of SEEDS Ms. Ritika Ghanti, then, laid out the plans for the academic year 2019-20. The events have been selected in such a way so as to ignite the thought process of young minds.

Speaking on the occasion, Chief Guest Mr. Clinton Vaz said that he felt honored to be amongst the youngsters. He said that it is very important for the youngsters to know what they like and to pursue it. Laying out his experience and how he, a Mechanical Engineer, got into waste management. He said that 20 percent of what you study is used in reality but that

20 percent is very important; the software learnt helps in designing. He motivated the students by saying that they can do whatever they want, they just have to keep their minds open. It is not always that the smartest are the best but there is hope for all. Recognition will be yours when you know how you use your mind. He ended his speech telling the students to always have positive thoughts about their studies.

Refreshments were given to the students after which various activities were held ranging from competitions like Debate, Quiz, Collage making, T-shirt painting, Street Play and Photography. The day ended with the screening of an inspirational movie, "BIG DREAM: Engineering Our World".

TRAINING AND PLACEMENT

DON BOSCO COLLEGE OF ENGINEERING STARTS THE YEAR WITH A SURGE OF PLACEMENT ACTIVITY

Don Bosco College of Engineering kick started placement activity for the year 2019-20 as early as August with a campus drive by Persistent Systems Ltd. (PSL). 12 B.E. Computer students were selected by PSL for the Nav Yuva role of Software Developer for a package of Rs 4.41 Lakhs.

The next interview scheduled was the telephonic interview of PinClick- the online real estate startup that selected 16 students for different roles. Two students from B.E. Computer were also selected to TCS through the CodeVita and Ninja hiring process that was conducted nationally.

Collaborating with Don Bosco Institute of Technology, Kurla Mumbai, the students from the Goa campus visited the Mumbai campus for the Sportz Interactive drive for the role of software developer. Four students were selected through the process. Meanwhile Chegg visited the campus in September and hired 32 final year students and 19 other students for the role of Chegg Expert. This opportunity allows students to earn while they are learning and answer subject related questions from

Chegg users across the world. IBM conducted a pool drive which was hosted on campus of which 13 students were placed as Technical Support Associate.

Wipro selected Don Bosco College of Engineering as Nodal Centre for the Wipro National Elite hiring in October 2019 and students not only from Goa but as far as Sindhudurg, Kankavli and Karwar answered the online test on campus. Don Bosco College of Engineering also hosted the dream campus of Jaro Education that offered a package of Rs 12 lacs per annum that was bagged by our Mechanical student Keegan Pinto.

The students of Don Bosco College of Engineering also attended the campus drives of Indus Valley Partners hosted at Goa College of Engineering. Besides, drives of Deltax, Cloudsek and Odessa Technologies were also conducted.

With two weeks of campus season still remaining before examinations, the college has already lined up several more drives giving students the opportunity to secure their dream job. Godrej, Coditas, Capgemini are some of the other drives scheduled in October 2019

The T&P office also conducted various career guidance sessions for the students on Careers in the Navy, Fellowship program by Nova Semita among others.

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