ZENITH

IEEE DBCE Student Branch Newsletter
Electronics & Telecommunication Engineering
2019
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OBJECTIVES

• To organize Seminars, Hands-on Workshops, Industrial Field visits, Expert Lectures and Technical Events for students & faculty members on and off campus that helps in Skill Development & Lifelong Learning.

• To create an awareness about the industry standards and expectations amongst students by networking with IEEE and Industry professionals.

• To imbibe leadership qualities, team spirit and research culture amongst students for technological novelty and excellence with communal benefits.

IEEE DBCE Student's Branch Installation

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, and Dr. Varsha Turkar as the IEEE Branch Adviser.

The inaugural ceremony was 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.

Prof. Yeshudas Muttu introduced the gathering to the world's largest technical professional organization, IEEE: Institute of Electrical & Electronics Engineers, stating its importance with growing technology, about its various facilities and support to the aspiring minds followed by a short note on Student Branch formation.

The Branch Officers appointed are Mr. Sherwin Colaco as the Chairperson, Mr. Rohan Bukkam as the Vice Chair, Mr. Rajat Metry as the Treasurer, Mr. Shivam Bale as Joint Treasurer, Ms. Juella De Oliveira as the Secretary and Mr. Raj Kubal as the Joint Secretary of IEEE student branch of DBCE. Later, the oath was taken by the Executive Committee of IEEE Student Branch, DBCE.

EVENTS DIGEST

WORKSHOPS

IEEE EX – CO: Duties & Responsibilities

The session on "IEEE EX – CO: Duties & Responsibilities" was held on 5th October 2018 delivered by IEEE Branch Counselor: Prof. Yeshudas Muttu & IEEE student Members: Mr. Sherwin Colaco & Mr. Rohan Bukkam. The session began with members to be elected & their role in IEEE student branch. Mr. Sherwin Colaco explained the role of Chair Person & Secretary. Mr. Rohan Bukkam described the qualities & roles of Vice Chair & Treasurer. Prof. Yeshudas Muttu also mentioned that besides the core EX – CO, other sub – committees can also be formed like Membership committee, Financial committee, Publicity Committee & Program Committee. The session was followed by Secret – ballot elections & Core IEEE EX – CO committee was formed.

WORKSHOP on "Resume Writing And Digital Resume"

IEEE Student Branch, DBCE organizedtheir first event on "Resume Writing and Digital Resume" Workshop at Don Bosco College of Engineering on Saturday, January 05, 2019 from 9.30 a.m. to 4.00 p.m. The Resource person for the workshop was Prof. Avila Naik, Assistant Training & Placement Officer, DBCE. It was ably supported and guided by IEEE Student Branch Counselor, Prof. Yeshudas Muttu& IEEE Student Branch Adviser, Dr. Varsha Turkar.

The session started off with explaining the importance of building Resume and the difference between Curriculum Vitae and Resume were put forth with minute details, followed bythedo's and don'ts in a Resume.

WORKSHOP on "Professional Documentation using LYX"

IEEE Student branch of DBCE organized a Hand's on workshop on "Professional Documentation using LYX" for the final year engineering students on 10th August 2019 under the guidance of IEEE Branch Counsellor Prof. Yeshudas Muttu. The resource person for the workshop was Prof. Anisha Cotta.

The workshop began with a brief introduction to the LYX software. The importance of this software and its various applications in professional documentation was explained. Further on writing documents such as technical papers and project reports using this software was described. Inserting equations, figures, creating tables and Bibliography was illustrated. Right from installation of the software till creation of final document was well planned & executed.
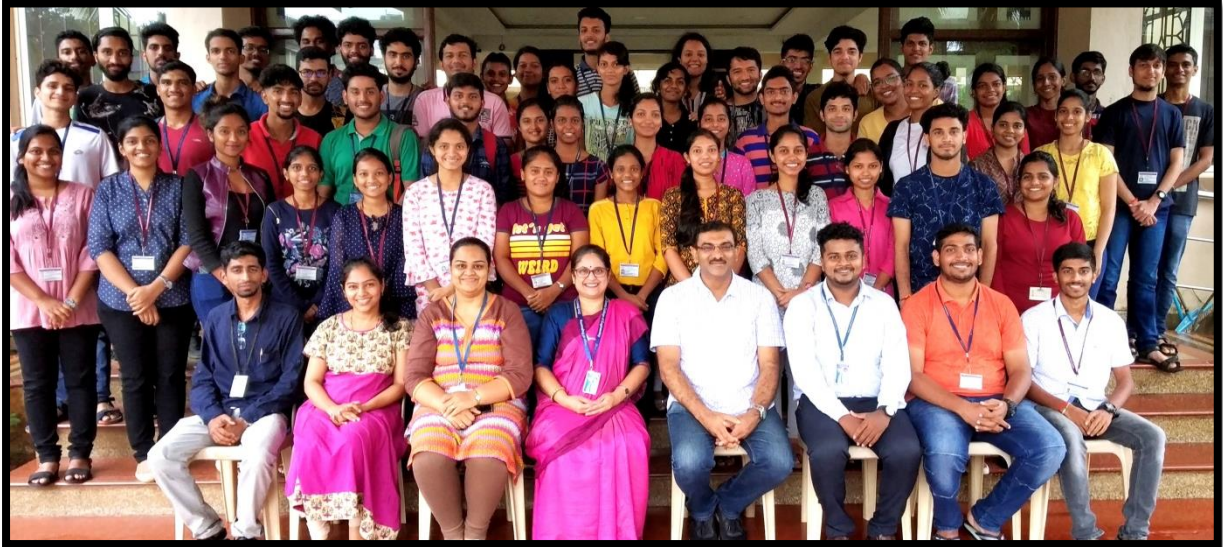

WORKSHOP on "Machine Learning & Deep Learning"

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 TE and BE ETC and Comp. Dept students & faculty members on 23, 24 and 25 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.

The workshop began with a wide overview of Python programming language which included basic arithmetic calculations, importing libraries in python. Further on a brief review of classification and regression in Machine learning was taken. The topic of logical regression was further carried by coding it on Googlecolab notebook. IRIS dataset was used to extend binary classifier to solve multiclass problems. The last day started with an introduction to Deep Learning, which is a subfield of Machine Learning. In the afternoon session, an efficient neural network algorithm was used to work on the MNIST dataset.

Skill and Knowledge Enhancement Program (SKEP)

"Technology and Engineering: The Mission and the Vision of IEEE"

An expert talk on "Technology and Engineering: The Mission and the Vision of IEEE", was conducted by Dr. B. Satyanarayana (PhD. IITB), Scientific Officer (H) Tata Institute of Fundamental Research, Mumbai.

Dr. B. Satyanarayana began his session with interrelation between science, technology and engineering. He pointed out main motive of IEEE is to improve quality of life by providing electricity in rural areas, e-Health Programs, Portable power, etc.

Dr. B. Satyanarayana concluded the seminar with a motivating phrase "Education can never be stopped or forced to be stopped; It's a part of life".

"Importance of Research at Undergraduate Level"

An expert talk on "Importance of Research at Undergraduate Level" was conducted by Dr. Sanjay Shitole (PhD. IITB), Secretary, IEEE GRSS Mumbai Chapter.

Dr. Shitole began his session with introduction to research and the ways to be creative. He also explained how research proves to be an intensive force within the researcher.

He instilled the joy to take up research work giving proper guidelines and blended the technical details required to put one's research in the form of a paper. He rightly pointed out that writing the paper is how you develop the idea in the first place. Later, in depths of paper writing was effectively covered. To conclude, he suggested few tools like LaTex, GNUplot, Gimp, LaTeX draw to build a paper.

"GIS and Career Opportunities"

An expert talk on "GIS and Career opportunities" was conducted by Dr. Sangita Chaudhari (Ph.D. IITB), IEEE Senior Member.

The session began with introduction to Geographical Information System (GIS), basic components of GIS and importance of GIS. Discrete objects & fields, Vector Data model, Raster model & various topologies in GIS were discussed. She also mentioned about the various software used in this field. The session was extended to explain the applications of GIS & case studies. GIS Career Opportunities were conferred so that students can get clear idea and understand the importance of this field.

"HAM Radio"

An expert talk on "HAM Radio", was conducted Dr. Saurabh Mehta (Ph.D., South Korea), IEEE Bombay Section Exe-Com member. Dr. Saurabh Mehta, commenced the session by introducing to various wireless technologies.

He made his session more interesting by making the audience identify various International as well as National Celebrities who used HAM technology. Terminology used is HAM radio, known as HAM Lingo was creatively put up. Q – Codes, Phonetics, Frequency bands & various devices needed in HAM radio were discussed. He encouraged students to design their own device and be a part of HAM Fest, held every year in India.

"Use of IOT & Remote Sensing in Agriculture"

An expert talk on "Use of IOT & Remote Sensing in Agriculture" was conducted by Dr. Amiya Tripathy (Ph.D. IITB), Treasurer of IEEEGRSS Mumbai Chapter.Dr. Amiya Tripathy began with the session with basics of IOT, its evolution, applications, technologies, analytics & AI. Various applications of IOT in agriculture like hydroponics, GIS with IOT, remote sensing with GIS in agriculture and drones of future in agriculture were discussed with the help of a video.

FIELD VISITS

EDUCATIONAL TOUR to "Indian Space Research Organization (ISRO)"

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 & Adviser, Dr. Varsha Turkar. Around 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.

COMPETITIONS

Hackathon "IEEE Xtreme 13.0"

IEEE Students branch of DBCE hosted worldwide 24 hours coding competition, IEEE Xtreme 13.0 for students of Don Bosco College of Engineering, Goa from 19th October 2019(5:30 am) to 20th October 2019 (5:30 am). The event was proctored & well organized
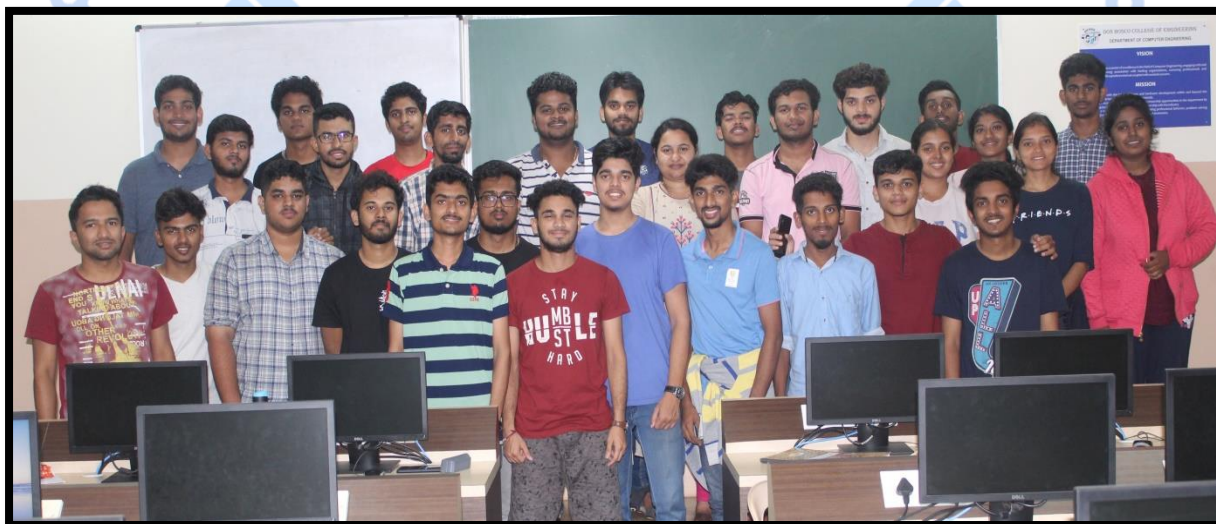
under the leadership of IEEE branch Counselor, Prof. Yeshudas Muttu. IEEE student branch received great help from Prof. Mohini Naik, Lab Assistant Mr. Ignatius Dias & FiiRE.

IEEE Xtreme 13.0 is a 24-hour online coding competition, within which a worldwide community of college and university students enjoy 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 participated 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 24-hour online coding competition ended on 20th October 2019 (5:30 am). The event was encouraged by the Director, Fr. Kinley D'Cruz, Principal Dr. Neena Panandikar & HOD-ETC Dr. Varsha Turkar.

OUTREACH

SEMINAR on "Skills and Robotics"

As a part of National Skills Qualification Framework (NSQF) under Ministry of Skill Development and Entrepreneurship, Government High School, Advoi, Sattari – Goa organized 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.

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. 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 as a scorekeeper, an IEEE student of Don Bosco College of Engineering.

Upcoming IEEE DBCE EXE-COM 2020

Mr. Renvick Fernandes
IEEE Chair

Mr. Gautam Desai
IEEE Vice-Chair

Ms. Neha Joshi
IEEE Secretary

Ms. Krystal Fernandes
IEEE Joint Secretary

Mr. Shivam Bale
IEEE Treasurer

Mr. Suyog Borker
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