



FLASH

Electronics & Telecommunication Engineering
Departmental Newsletter

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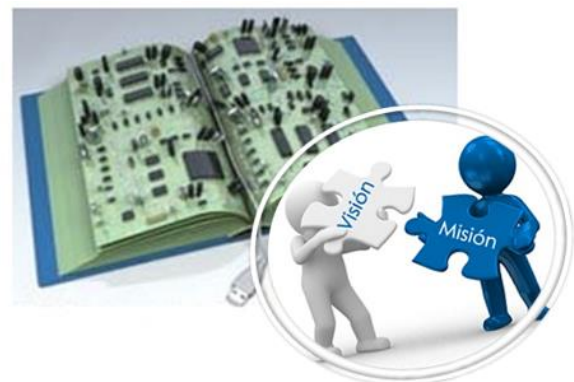
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VISION

To evolve into a Holistic Learning Hub that moulds technologically proficient engineers in the field of Electronics and Telecommunication; enhancing the global industry and society with Integrity, Ethics and Professionalism as envisaged by Don Bosco.



MISSION

- To impart education abreast with the advances in technology and transform students into globally accepted professionals.
- To foster networking with all stakeholders for promoting technical innovation, research and entrepreneurship.
- To encourage extra-curricular activities and instil high levels of work ethics and responsibility for a better society.

DEPARTMENTAL DETAILS

The Department has well qualified and experienced faculty in the areas of Electronics & Communication, VLSI, Embedded, Signal Processing, Automation and Control Engineering. The Department offers Bachelors of Electronics & Telecommunication Engineering programme, with total number of 60 seats in the 1st year and 12 seats for lateral entry into the second year. The department has been organizing various programs to enhance the Industry -Institute interaction through field visit and workshops.

Every year students of Third year and Final Year are exposed to Industry through internship programme of 1 month duration for industry experience.



Department has 10 fully functional Laboratories as listed below, along with the different Softwares.

➤ **LABORATORIES**

- Electronics Engineering
- Power Electronics and Control Systems
- Devices and Circuits
- Communication Engineering
- Microprocessor
- Electrical Engineering
- Electrical Technology
- Digital Systems and Electronic Instrumentation
- Signal Processing Lab
- Advanced Communication Lab

➤ **SOFTWARE**

- MATLAB
- Xilinx 14 version
- OSCAD
- MAGIC
- LabVIEW



STUDENT'S CORNER

IETE (Institute of Electronics and Telecommunication Engineering) INITIATIVES

ONE DAY WORKSHOP ON ARDUINO

- The ETC Department in association with IETE student's chapter conducted a one day workshop on "ARDUINO" on 13th January 2018, for the second year ETC. A total of 58 students participated in the workshop. The resource persons were Prof. Vishnu Rathod and Miss. Cecilia. The main objective of this workshop was to upgrade the skills of the students. The workshop provided a platform to learn the Arduino and its application using the Arduino software. The following topics were covered with hands-on exposure on the software:
 - Introduction to Arduino
 - Blinking LED'S
 - Driving different type of motors
 - Relays
 - Bluetooth
 - NRF 24LO1 wireless communication
 - 16*2LCD interfacing
 - Practical examples and tasks.



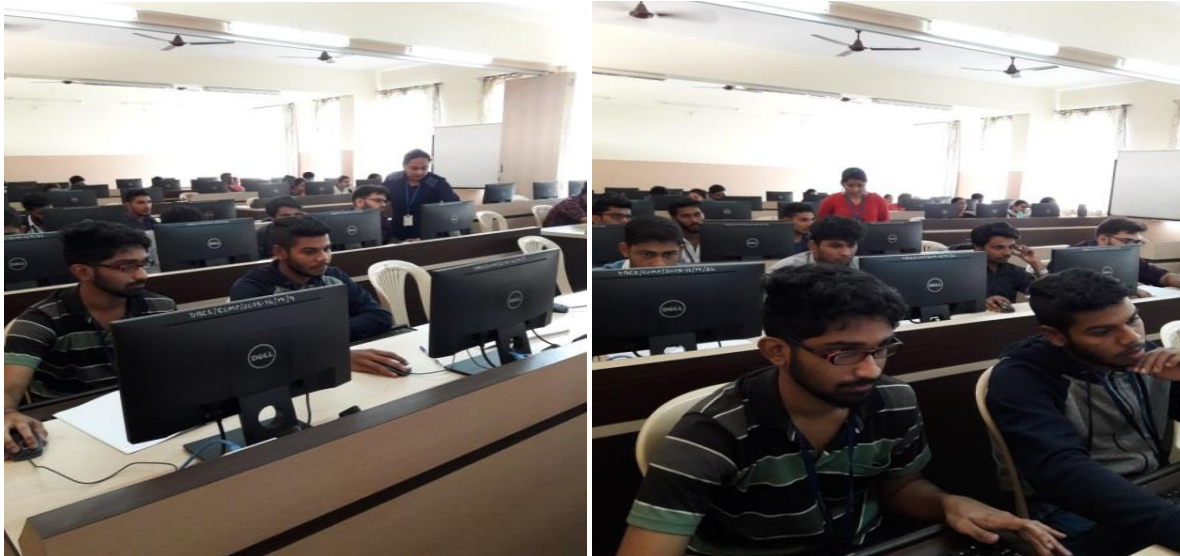
Prof. Samantha Cardoso and Prof. Vishnu Rathod were the faculty co-coordinators for this workshop organized under IETE.

WORKSHOPS/SEMINARS/IN-HOUSE TRAININGS

ONE WEEK INTERNSHIP PROGRAMME ON “PRACTICAL APPROACH TO THE FIELD OF ELECTRONICS”

As a part of the in-house training for BE-ETC students, the ETC Department of Don Bosco College of Engineering, in association with DBEATS Council, organized a ‘One week internship programme on ‘Practical Approach to the field of Electronics’ from 8th to 12th Jan, 2018.

The Internship programme started with a one and a half day session on “**Schematic and Layout using OSCAD**” on the 8th and 9th of January, 2018. The sessions were delivered by Prof. Flavia Leitao and Prof. Mathilda Colaco. Hands-on training session on OSCAD exposed the students to the different OSCAD editors and builders, drawing of Schematic in Schematic editor, generating Netlist, mapping footprints in Footprint editor and finally drawing the Layout in Layout editor. The following contents were covered during the morning session of second day: testing the circuit on breadboard, transferring the Layout from OSCAD onto the PCB, masking to remove the unwanted copper, etching, drilling and mounting of components, soldering, testing.



The afternoon session was delivered by Prof. Trima P. Fernandes e Fizado on “**Introduction to Cryptool 2.**” Hands-on Session was conducted on Cryptool 2.0 software where Algorithms such as Julius Caesar Cipher, Transposition Cipher, RSA Algorithm for Encryption and Decryption, DES Algorithm for Encryption and Decryption were implemented. The session concluded with various applications of Cryptography.

On the third day there were sessions on “**Design and Analysis of Microwave Components**”. It began with Introduction to Microwave Engineering by Prof. Mohini Naik where the Students were made familiar with design of simple micro strip line, Quarter wave transformer & T – Junction Power Divider. Thereafter, Prof. Yeshudas Muttu introduced the students to implementation and

analysis of Microwave Components like Rat race coupler and Hybrid coupler. This session was extended with optimization of those components to achieve better results.

On the 11th and 12th of January the session was on “**Advances in Digital Image Processing**”. It commenced with a technical session on Introduction to key stages in Digital Image Processing, by Prof. Melba D’Souza. This was followed by hands on session using MATLAB on fundamental modules and different applications of Image Processing. Prof. Deron Rodrigues gave valuable and basic information on image formation, image resolution and different image enhancement techniques. On the last day, Prof. Deron Rodrigues delivered sessions on ‘Image Enhancement’ which consisted of Contrast adjustment, histograms and histogram equalization and other image enhancement tools. This was followed by session on ‘Image Restoration’ by Prof. Vishnu Rathod, which covered MATLAB codes for creation of blurred images, de-blurring of images, creation of noise images and de-noising of images.



In the afternoon session, Prof. Vishnu Rathod explained ‘Video Processing’ which included implementation of codes to display a video clip in MATLAB, acquiring frames from video. This was followed by Prof. Deron Rodrigues on Morphological Filtering which included Dilation, erosion, reconstruction, and other morphological operations.

ONE DAY WORKSHOP ON PCB DESIGN

To fulfil the Industry goals and requirements the department of Electronics and Telecommunication Engineering in association with DBEATS conducted a one day workshop on “**PCB Design**” on the 27th of January, 2018 for the second year students of ETC. Total of 55 students attended the workshop.

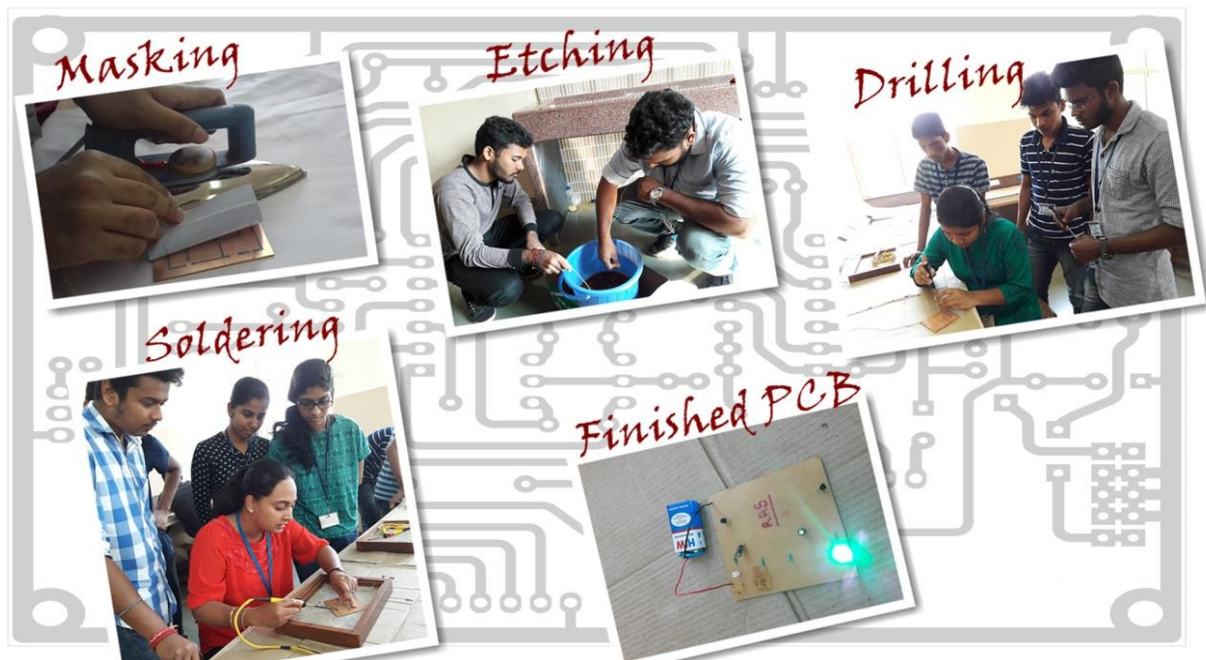
The workshop started with a motivational and interactive talk on “PCB Design”. The resource people for the workshop were Prof. Flavia Leitao and Prof. Mathilda Colaco, faculty at Don Bosco College of Engineering.

The following contents were covered for the workshop: Understanding of the Circuit, Knowledge of component packages, Testing the circuit on breadboard, Drawing circuit layout and transferring mirror image of layout on PCB, Masking to remove the unwanted copper, Etching, Drilling and mounting of components, Soldering and Testing.

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 using power point presentation.

The Students were trained to read datasheets followed by brief understanding of the different packages (TO-92, TO-220, etc) and also the different types of parts (Through holes and Surface mount) along with the soldering methods (wave soldering and reflow soldering) for the same.

The students had a hands-on experience in designing the PCB.



ONE DAY WORKSHOP ON "PROJECT MANAGEMENT AND TECHNICAL REPORT WRITING"

The Department of Electronics and Telecommunication Engineering of Don Bosco College of Engineering in association with DBEATS organized a one-day workshop titled "Project Management and Technical Report Writing" on 8th March 2018. The workshop was conducted by Assistant Professor Anisha Maria Cotta and Mr. Zain Rajanifor the students of Final Year Electronics and Telecommunication Engineering.

The workshop was aimed at providing the students with guidelines to compile their reports using LYX software and presentations with regards to their projects. The students were provided with hands-on exposure using the LYX software from installation to its application.

The workshop commenced with an introduction and some guidelines for report writing. The students were introduced to the various sections of project report and the importance of each. The students were made to install the LYX software and were briefed about the various toolboxes that can be used for compilation of the report.

A practice session was then conducted wherein the students were made to use LYX software to write their 7th semester project report. The students were also given an insight on circuit designing software "Fritzing" which enables them to draw animated circuits and also generate PCB layout for the same. A hands-on session was also conducted on "Fritzing" software.

The workshop was concluded with a session on the importance of publishing papers in reputed International/ National journals and the importance of journal publication in the resume. The students were also guided on how to select journals for publication and the format of paper writing. The workshop was attended by 64 students.



ONE DAY WORKSHOP ON ELECTROMAGNETIC & ITS APPLICATIONS USING MATLAB AND SIMULINK

The Electronics and Telecommunication Engineering Department in association with DBEATS organized a one day workshop for the students of Second Year Electronics and Telecommunication Engineering, titled, “Electromagnetics & its applications, using MATLAB and Simulink” on 10th March 2018. Workshop was conducted by Prof. Yeshudas Muttu and Prof. Mohini Naik. The workshop began with basics of Electromagnetics using MATLAB commands, boundary value problems, electric field intensity, interface conditions for Electric field intensity and Electric Flux Density. The session was later continued with basics of Simulink, building model using sinks, sources, linear and non – linear Simulink blocks. Students were introduced with calculus operations and need for converting given equation into integral form. Later, students were introduced to first order and second order differential equations and their linear modeling with applications on Simulink.

EXPERT TALKS

Field Expert talk on Microcontroller Development Boards and their Applications

In order to bridge the gap between the academia and industry, make the students aware about modern electronic tools and to stimulate students to innovate, the ETC Department, in association with DBEATS organized an expert talk for the third year ETC students on 30th January 2018.

Mr. Rajaram Parsekar, Owner, Elementronix delivered the seminar in which, he focused on various microcontroller development boards available for different applications. The students were introduced to microcontroller based boards such as Arduino(UNO, NANO, and MEGA), STM32, ESP 12, ESP 32 etc. as well as

single board computers such as Raspberry Pi (Model 3, Pi 0), Beagle board, Intel Galileo etc. The students also had the opportunity to physically see some of these boards.



The speaker gave valuable insights on selection of boards for various applications and design considerations and also briefed the students on how Embedded C can be used to bypass the need for development boards so as to efficiently exploit the potential of microcontrollers. Mr. Parsekar gave tips on various fields of electronics in which the students could do their final year projects. Certain students also put forth their ideas and discussed with the speaker, the practicality and feasibility of these ideas. With final year projects around the corner, the TE ETC students found this seminar very valuable.



FIELD VISITS

Field Trip to NIO

A field trip was arranged for the students of second year ETC on 23rd March 2018. The place visited was “NIO Goa” Dona Paula Goa. The students were accompanied by Prof. Michelle Araujo and Prof. Trima Fernandes Fizardo.

The day commenced with a visit at NIO. An oceanographic short movie 'SAGAR' was screened for the students in the auditorium. This was truly a great experience for the students to learn deeply about oceans across the globe, their compositions, uses, effects and the life it supports. It was a great experience for all the students to learn all the areas of research in Oceanography.



Field Trip to “Letcetra Agriculture Turnkey Solutions”

A field trip was arranged for the students of second year ETC on 23rd March 2018. The place visited was “Letcetra Agriculture Turnkey Solutions”, karaswada, Mapusa Goa. The students were accompanied by Prof. Michelle Araujo and Prof. Trima Fernandes Fizardo.

Here the students got to learn how plants like lettuce, strawberries and spinach are grown under artificial environment. The system was created such that the room was bright and lighted with tube lights. To help the plants in the process of photosynthesis, the room was under temperature control too. We were surprised to know that these plants had a great demand in the market because they used no harmful chemicals but purely grown with natural organic matter. It was a great experience for all the students to learn something new, a chance to interact with the surroundings minutely and intently and the bus journey undoubtedly was a memorial one.

Achievements & Felicitation

- Mr. Rajat Metry was awarded the “Best Intern” for the Winter Internship at Experts Hub Industrial Training at Smt. Kashibai Navle College Pune.
- SahilMandrekar (BE ETC) PratishVir (TE ETC), Rahul Dicholkar (TE ETC), AshwinFaldessai (SE ETC), SidhantKunde (FE ETC) were the Runners up for the Inter College cricket (men) championship 2018.
- Zeus Fernandes (TE ETC) reached the semi finals for the Inter College Basketball (men) championship 2018.
- Mr. Rajat Metry (TE ETC) was awarded the “Best Intern” for the Winter Internship at Experts Hub Industrial Training at Smt. Kashibai Navle College Pune.
- Mr. Rajat Metry, Mr. Shreyas Aigal, Mr. SairajKakodkar and Mr. SurajMalvikar from TE ETC were give the “Best Project titled Smart Weather Monitoring system using IOT”, at Experts Hub Industrial Training at Smt. Kashibai Navle College Pune.
- Mr. Rajat Metry, Mr. Luis Gomes and Mr. Rohit Sardessai from TE ETC Conducted Robotics workshop for the summer camp students.
- Ms Siddhi Rajeev Desai successfully completed an NPTEL course in “Principles of signals and Systems”, with a consolidated score of 40%.
- Mr Ervin Sequeira, Ms Nelisha D’souza and Mr Shums Munshi won the 3rd place for the technical paper presentation titled “An Automatic Indoor Navigation Control Unit”, at the 1th Annual Symposium on VLSI and Embedded Systems (VSI 2018).
- Mr Royston Dias and Mr Ervin Sequeira were shortlisted by Siemens Healthineers to participate for the “Innovation Think Tank” workshop cum competition against the IIT and MIT students.



FACULTY INITIATIVES

PROJECT EXHIBITION: TECHNIX-2018

The Electronics and Telecommunications Department of Don Bosco College of Engineering held a project exhibition – ‘**Technix 2018**’ on Wednesday, 25th April 2018. The exhibition saw the final year ETC students showcasing their final projects. Prof. Allan da Costa, lecturer of Electronics Department at Agnel Polytechnic and Ms. Preeti Jagadev, NIT- Goa were invited to judge the projects. Prof. Anisha Cotta was the coordinator of the exhibition.



A total of 14 projects were kept on display. Every project was unique and creative in their own way, and it showcased an innovative idea in the field of engineering.

At the close of the exhibition, the judges shared a few words of encouragement and applauded the students efforts. The first prize was bagged by the group “Optical Wireless Communication System” and the second place was bagged by the group “Brindle”.



FACULTY DEVELOPMENT PROGRAMME (FDP)

The Electronics and Telecommunications Department of Don Bosco College of Engineering conducted a three day Faculty Development Programme (FDP) on 8051, PIC and ARM controllers, where resource people from Microchip conducted hands-on training on these embedded boards, on the 11th, 12th and 13th of June 2018.



FAREWELL for the final year students

On 3rd May 2018, farewell for BE ETC engineering students was held in the auditorium of Don Bosco College of Engineering, Fatorda. The function started with a motivational video by the Director, Rev. Fr. Kinley D'Cruz, depicting daily life scenarios about how we keep chasing for things that are so near. Our principal, Dr. Neena Panandikar and HOD Mrs. Michelle Araujo addressed the students and gave their best wishes.

The best outgoing student award was given to Miss Anthea Fernandes by the Director and the Principal. We wound up by cutting of the farewell cake.



CERTIFICATIONS/ AWARDS

- Prof. Kimberly Morais successfully completed an **NPTEL** course in “**Analog Circuits**”, with a consolidated score of **70%**.
- Prof. Yeshudas Muttu received IEAE (Institute for Exploring Advances in Science & Engineering) **Young Achiever’s Award** 2018 for the IEEE paper "Effective Phase Detection, Feature Extraction and Neutral Network based approaches for Facial Expression Recognition".
- Prof. Mohini Naik received IEAE (Institute for Exploring Advances in Science & Engineering) **Research Excellence Award** 2018 for the Research in antenna & for IEEE paper "Design & simulation of array of rectangular slotted microstrip patch antenna with improved bandwidth for WLAN".

PAPER/ JOURNAL PUBLICATIONS

- Prof. Michelle Araujo e Viegas published a paper titled "Intelligent and Smart Traffic and Transportation System for Modernization of Cities", which was presented in the International Journal of Innovative Research in Computer and Communication Engineering in Volume 6, Issue 3 in March 2018. ISSN:2320-9798.
- Prof. Michelle Araujo e Viegas published a paper titled "Optical Wireless Communication System using VLC Technology", which was presented in the International Journal for Scientific Research and Development in Volume 6, Issue 1 in March 2018. ISSN:23210613.
- Prof. Michelle Araujo e Viegas published a paper titled "Optical Wireless Communication System for Data Transfer", which was presented in the International Journal of Science Technology and Engineering in Volume 4, Issue 9, March 2018. ISSN:2349-784X.
- Prof. Michelle Araujo e Viegas published a paper titled "Smart Helmet", which was presented in the International Journal of Science Technology and Engineering in Volume 4, Issue 9, March 2018. ISSN:2349-784X.
- Prof. Michelle Araujo e Viegas published a paper titled "Smart Helmet", which was presented in the International Journal for Scientific Research & Development in Volume 6, Issue 1, March 2018. ISSN:2321 0613.
- Prof. Trima P. Fernandes e Fizardo published a paper titled "Low Cost DSLR", which was presented in the International Journal of Science Technology and Engineering in Volume 4, Issue 9, March 2018. ISSN:2349-784X.
- Prof. Trima P. Fernandes e Fizardo published a paper titled "Wireless Sensor Communication using Mobile Cloud Computing", which was presented in the International Journal of Science & Engineering Development Research in Volume 3, Issue 14, April 2018. ISSN:2455-2631.
- Prof. Trima P. Fernandes e Fizardo published a paper titled "Image Enhancement", which was presented in the International Journal for Scientific Research & Development in Volume 6, Issue 3, May 2018. ISSN:2321 0613.
- Prof. Vidhya D.S. published a paper titled "Automated navigation control using Arduino" which was presented in International Journal of Science Engineering Development Research and Engineering in ISSN: 2455-2631, Vol.3, Issue 3, page no.107 - 110, March 2018.

- Prof. Vidhya D.S. published a paper titled "Automated indoor navigation control unit using raspberry pi", which was presented in International Journal for Research Trends and Innovation ISSN:2456-3315, Vol.3, Issue 5, page no.75 - 78, May-2018.
- Prof. Vidhya D.S. published a paper titled "Peltier Module for Thermoelectric Heating and Cooling", which was presented in Global Research and Development Journal for Engineering in ISSN:2455-5703, Volume 3, Issue 4, page no.79-83, March 2018.
- Prof. Vidhya D.S. published a paper titled "Personal Heating and Cooling Device Using Peltier Module", which was presented in International Journal of Scientific Development and Research in ISSN:2455-2631, Volume 3, Issue 5, page no.208-211, May 2018.
- Prof. Vidhya D.S. published a paper titled "Real Time Pulse Rate Monitoring and Alerting System using Bluetooth or GSM", which was presented in International Journal of Science Technology and Engineering in ISSN:2439-784X, Volume 4, Issue 10, page no.283-287, 10 April 2018
- Prof. Anisha Cotta published a paper titled "Advanced Military Spy Robot and Bomb Disposal", which was presented in the International Journal of Science Technology & Engineering, Volume 4, Issue 9, March 2018 ISSN (online): 2349-784X.
- Prof. Anisha Cotta published a paper titled "Android Mobile Controlled Robotic Arm", which was presented in the International Journal for Scientific Research & Development, Volume 6, Issue 1, March 2018 ISSN (online): 2321-0613.
- Prof. Anisha Cotta published a paper titled "Applications of RF in Rescue Robot in Coal Mines", which was presented in the International Journal for Scientific Research & Development, Volume 6, Issue 1, March 2018 ISSN (online): 2321-0613.
- Prof. Anisha Cotta published a paper titled "Rescue Robot in Coal Mines", which was presented in the International Journal of Science Technology & Engineering, Volume 4, Issue 10, April 2018 ISSN (online): 2349-784X.
- Prof. Melba D'Souza published a paper titled "Military Equipped Drone", which was presented in the International Journal of Science Technology and Engineering in Volume 4, Issue 10, April 2018.
- Prof. Melba D'Souza published a paper titled "Multipurpose Autonomous Drone", which was presented in the International Journal for Scientific Research and development in Volume 6, Issue 01 on March 2018.
- Prof. Melba D'Souza published a paper titled "Wireless Patient Monitoring system", which was presented in the International Journal for Scientific Research and development in Volume 6, Issue 01 on March 2018.

WORKSHOPS/SEMINARS/EXPERT TALKS CONDUCTED

- Prof. Vishnu Rathod organized one day workshop on "ARDUINO" for the students of SE-ETC on 13th January, 2018.
- Prof. Flavia Leitao and Prof. Mathilda Colaco conducted one and a half day workshop on "Schematic and Layout using OSCAD" for the students of BE-ETC on the 8th and 9th of January 2018.
- Prof. Trima P. Fernandes e Fizardo conducted half day workshop on "Introduction to Cryptool 2", for the students of BE-ETC on the 9th of January 2018.
- Prof. Yeshudas A. Muttu and Prof. Mohini Naik conducted one day workshop on "Design and Analysis of Microwave Components", for the students of BE-ETC on the 10th of January 2018.

- Prof. Melba D'Souza, Prof. Deron Rodrigues and Prof. Vishnu Rathod conducted two days workshop on “**Advances in Digital Image Processing**”, for the students of BE-ETC on the 11th and 12th of January 2018.
- Prof. Flavia Leitao and Prof. Mathilda Colaco conducted one day workshop on “**PCB Design**” for the students of SE-ETC on the 27th of January, 2018.
- Prof. Melba D'Souza, Prof. Deron Rodrigues organized an expert talk on “**Microcontroller Development Boards and their applications**”, on the 30th of January, 2018.
- Prof. Selvyn Fernandes conducted one day workshop on “**Signals and Systems using MATLAB**” for the students of SE-ETC on the 9th Feb 2018.
- Prof. Yeshudas A. Muttu and Prof. Mohini Naik conducted one day workshop on “**Electromagnetic & its applications using MATLAB and Simulink**”, for the students of BE-ETC on the 3rd March 2018.
- Prof. Anisha Cotta conducted one day workshop on “**Project Management and Technical Report Writing**” for the students of BE-ETC on the 8th March 2018.

WORKSHOPS/SEMINARS/EXPERT TALKS ATTENDED

- Prof. Deron Rodrigues, Prof. Flavia Leitao, Prof. Mathilda Colaco and Prof. Selvyn Fernandes attended a one week ISTE Workshop on “Cadence –Design, Analysis and Simulation of circuits” organized by Department of Electronics and Telecommunication Engineering, PCCE, Verna from 1st to 5th January 2018.
- Prof. Michelle Viegas, Prof. Trima P. Fernandes e Fizardo, Prof. Deron Rodrigues, Prof. Kimberly Morais and Prof. D.S. Vidhya attended a one day seminar on “Nuclear Technology: Scripting National Development” organized by BARC Mumbai & Mechanical Department, DBCE on the 3rd February 2018.
- Prof. Samantha Cardoso, Prof. D.S. Vidhya, Prof. Deron Rodrigues, Prof. Flavia Leitao and Prof. Mathilda Colaco attended a one week AICTE-ISTE Workshop on “Research Tools and Techniques” organized by Department of Computer Engineering, DBCE from 7th to 11th May 2018.
- Prof. Yeshudas A. Muttu attended a three days Workshop on “Designing with FPGA using Xilinx Vivaldo and Mentor Graphics” organized by Department of Electronics and Telecommunication Engineering, Rajarambapu Institute of Technology in association with Corel Technologies, Rajaramnagar from 22nd to 24th May 2018.

COMMUNITY OUTREACH

Electronics and Telecommunication labs and lab facilities were shared to the ITI students during the semester break, to enhance their skills.



TRAINING & PLACEMENT

The ETC Engineering Department maintains a vibrant industry-academia relationship and the suggestions of the experts are taken as tools for its continuous improvement. The third year and final year students undergo a 2 week Internship Program under the guidance of experience professionals. This is to bridge the gap between education and Industry.

A number of graduated students of the college are now occupying highly responsible positions in various reputed and prestigious organizations including Sankalp Semiconductors Pvt Ltd, Citrix, Visteon Technical & Services Centre Pvt. Ltd and Birla Furukawa Fibre Optics Pvt Ltd.

UPCOMING EVENTS

- One week TEQIP for the Faculty members on “Artificial Intelligence and Machine Learning” from the 2nd to 6th of July 2018.
- In House training scheduled for TE ETC students from the 9th to 13th July 2018.
- IETE Events scheduled for SE, TE and BE ETC students.
- “Controls systems in MATLAB” Workshop scheduled for TE ETC students on the 11th of August 2018.
- Expert lectures scheduled for the SE, TE and BE ETC students to get industry exposure.
- Robocom Event scheduled for SE, TE and BE ETC students on 25th August 2018.
- “Artificial Intelligence” Workshop scheduled for BE ETC students on the 25th August 2018.
- Technical Event scheduled for ETC students by DBEATS on the 7th and 8th of September 2018.
- “PSIM” Workshop scheduled for SE ETC students on the 22nd September 2018.
- “LabVIEW” Workshop scheduled for TE ETC students on the 13th of Oct 2018.
- “Antenna” Group Event scheduled for SE ETC students on the 13th of Oct 2018.