# FLASH

## Electronics & Telecommunication Engineering Departmental Newsletter

### Volume 01, Issue 02, Jan- June 2017

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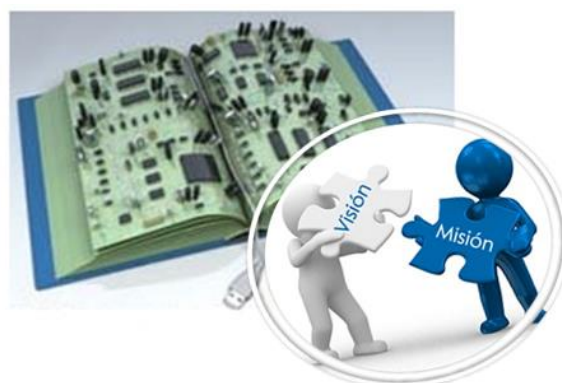- ➢ **Faculty Initiatives**
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## VISION

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 ControlEngineering. 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

Apart from DBEATS the Electronics and Telecommunication department opened a new student's chapter this year, the **IETE** (Institute of Electronics and Telecommunication Engineering). The Inaugural of the Institute of Electronics and Telecommunication Engineers (IETE), student's forum was done on the 29th April 2017.

Mr. SachinTalwadkar, Associate consultant at TCS, was the chief guest for the function. Dr. H.G Virani, Head of Department of Electronics and Telecommunication Department of Goa College of Engineering. the chairman of IETE Goa Sub Centre, was also present for the inaugural function.. Rev.Fr.KinleyD'Cruz, Director; Mrs. NeenaPanadikar , Principal; Mrs. Michelle Viegas, HOD of ETC Department; Mrs. Samantha Cardoso and Mr. Vishnu Rathod, IETE coordinators were the other dignitaries present at the dais.



Chief guest Mr. SachinTalwadkar, urged students to get exposed to different cultures and learn from them to serve society in a better way.

Dr. H.G Virani, the chairman of IETE, Goa Subcentre briefed students on the various benefits that IETE provides and the various facilities available to students.

Director Rev. Fr. Kinley D'cruz inspired students to follow their passion and to work hard and aim at gaining knowledge through these forums.

Principal Dr. Neena Panandikar congratulated the students and encouraged them to take full advantage of the benefits provided by the association.

# EXPERT TALKS

## "Reliability and Testing" by Mr. Jerald Leo

A technical talk was organized by the Department of Electronics and Telecommunication department in association with DBEATS for the ETC students on 11th February 2017 on "**Reliability and Testing**" which was delivered by Mr. Jerald Leo, Quality Manager, Siemens Ltd, Verna.

The lecture covered the broad idea on Verification and validation, Reliability test approach, stress test, Failure mechanisms and failure models. Mr. Jerald Leo also briefed the students about the job opportunities in the field of Testing.



## "Introduction to Manufacturing Industry" by Mr. Sachin Talwadkar

On the Inaugural function of the IETE (Institute of Electronics and Telecommunication Engineers) Student's Forum, a technical talk was organized by the Department of Electronics and Telecommunication department for the ETC students on 29th April 2017 on "**Introduction to Manufacturing Industry**" which was delivered by Mr. Sachin Talwadkar, Associate consultant at TCS, Mapusa.

The Talk gave the students an exposure to the terms and processes and different sectors used in manufacturing. Understanding of the BOM (Bill OfMaterial), Lead time, Obsolete parts, pilot builds and importance of Documentation in a Process was also discussed with students.

# WORKSHOPS/SEMINARS/IN-HOUSE TRAININGS

## ONE WEEK WORKSHOP ON OSCAD, PROJECT REPORT WRITING & IMAGE PROCESSING
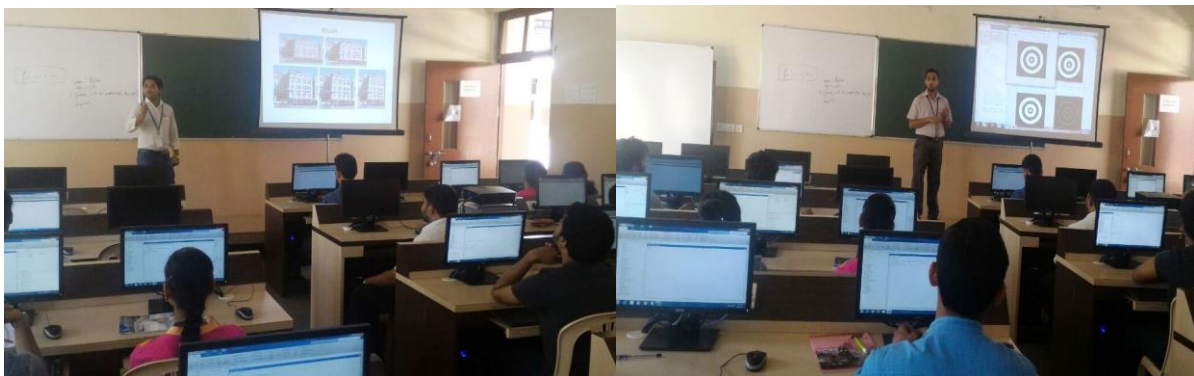
The Department of Electronics and Telecommunication Engineering in association with DBEATS conducted a one week workshop on "**Schematic and Layout using OSCAD**", "**Project Report Writing**" and "**Digital Image Processing**" from $9^{th}$ January to $11^{th}$ January 2017.

Schematic and Layout using OSCAD was covered by Prof. Flavia Leitao and Prof. Mathilda Colaco. Hands-on training on OSCAD was provided, exposing them to the different OSCAD editors like Schematic editor, Analysis inserter, Netlist Converter, Ngspice, Footprint editor, Layout editor, SMC Sim, Model builder and Subcircuit builder.




Prof. D. S. Vidhya guided the student's project report writing, which included Literature survey, overview of the project, results and discussion, conclusion and future work.

Digital Image Processing was taken up by Prof. Deron Rodrigues and Prof. Vishnu Rathod, where the students were introduced the key stages in digital image processing i.e. Image Acquisition, Image Enhancement, Image Restoration, Morphological Processing, Segmentation, Object Recognition, Representation & Description, Image Compression and Colour Image Processing.

## ONE DAYWORKSHOP ON PCB DESIGN

The department of Electronics and Telecommunication Engineering in association withDBEATS conducted a one day workshop on **"PCB Design"** on the 14thof January, 2017 for the second year students of ETC. Total of 57 students attended the workshop.

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 &Testing.

The Students were also 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.
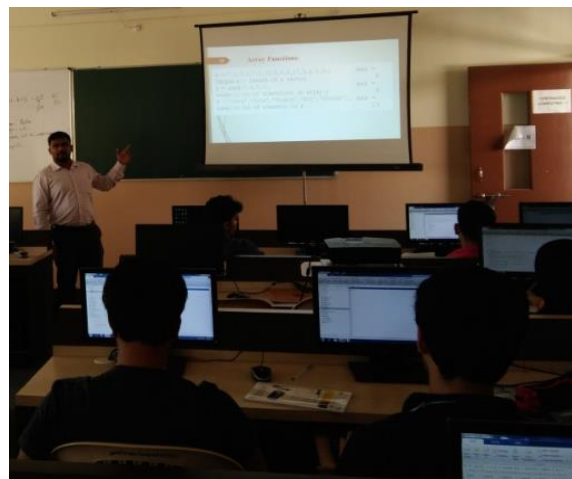
The students had a hands-on experience in designing the PCB. The coordinators for the workshop were Prof. Flavia Leitao and Prof. Mathilda Colaco.

## ONE DAY WORKSHOP ON MATLAB

A one day workshop titled "**Introduction to MATLAB"** was conducted on 14th of January for the SE ETC students, Prof. Madhukar A and Mr. Pio Nathan Pereira.

MATLAB coding included Array generation, Matrix manipulation, Matrix calculation. Generate an array, modify the array, generate a matrix, modify the matrix and perform operations on a matrix, Addition,subtraction, multiplication, and division of matrix.

## BOSE SHANNON SHOCKLEY (BSS)- Technical Paper Presentation

An intra class Technical Paper Presentation was organized for the TE ETC students on 27<sup>th</sup> March 2017.

The papers were presented in the following areas: Power Systems, Communication Networks, VLSI Design, Biomedical and Bio informatics, Image Processing, Robotics, Nanotechnology, Green Electronics & Embedded systems.

The 1<sup>st</sup> place for best paper presenter was awarded to Mr. Mahendra Gadiyar & the first position for the best paper was awarded to paper titled "Carbon Nanotubes in Prosthetics".



## ONE DAY WORKSHOP ON LabVIEW

The Electronics and Telecommunication department in association with DBEATS conducted a one day workshop on **"LabVIEW"** on the 3<sup>rd</sup> April, 2017 for the TE ETC students. A total of 69 students participated in the workshop.

The main objective of this workshop was to upgrade the skills of the students and to provide a common platform to explore the usage of Virtual Instrumentation and Design aspects using simulation with the help of NI LabVIEW.

The workshop commenced with a brief overview of LabVIEW and its applications. Hands-on exposure to the LabVIEW software which involved coding for Mathematical operations, Digital Logic using Boolean gates, FOR Loops with various examples, Shift Registers and its applications, Design of Arrays with examples, Conditional While Loops, Practical system examples using Case Structures, Implementation of higher end computation using Formula Nodes, Hierarchical designing using Sub-VI.

At the end of the workshop feedback was collected from the students revealed that the workshop was of high quality and very useful.

The sessions were delivered by Prof. Flavia Leitao and Prof. Mathilda Colaco.

# FIELD VISITS

## Field Trip to CIBA" and "Infinyt3D

The Third Year ETC Engineering students visited the "**Centre for Incubation and Business Acceleration - CIBA**" and "**Infinyt3D**", Verna as a part of their curriculum on the 3rd Feb 2017. Theagency provides services for prototyping and designing of various projects using reliable materials like ABS, nylon, etc. to have a set idea of how the product should look like once under manufacturing.





## Field Trip to Siemens

The SE ETC students visited the "**Siemens Ltd**", Verna as a part of their curriculum on the 9th February 2017. Siemens, Goa provide services in Health Care, Energy Automation and Medium Voltage Switchgear. The students got an opportunity to visit Energy Automation Factory and interact and understand the procedures of PCB mounting and printing.

# ACHIEVEMENTS & FELICITATION

➢ Prof. Michelle Araujo E Viegas, Avinash Kurian, Salkar Shantam Rajas, Usgaonkar Rushabh Satish published a paper titled "Weed detection using image processing", International Journal for Scientific Research & Development, volume 5, Issue 1, 2017, ISSN (online): 2321-0613.

➢ Prof. Michelle Araujo E Viegas, Avinash Kurian, Salkar Shantam Rajas, Usgaonkar Rushabh Satish published a paper titled "Weed Removal Using Arduino Robot", International Journal for Scientific Research & Development, volume 5, Issue 1, 2017, ISSN (online): 2321-0613.

➢ Prof. Michelle Viegas, Zain Rajani, "Intelligent Traffic Management and Parking Space Detection Using Raspberry Pi and Internet of Things", International Journal of Engineering Development and Research. ISSN:2321-9939, Vol.5, Issue 1, March 2017 pp. 610-615

➢ Prof. Michelle Viegas, Zain Rajani, "Smart Parking Space Detection Using MATLAB and Internet of Things", International Journal of Science and Engineering Development Research. ISSN:2455-2631, Vol.2, Issue 3, March 2017 pp. 60-64

➢ Prof. Michelle Viegas, Zain Rajani, Valerie Vaz, Jyoti Kumari and Vismita Kolvekar published a paper titled "Smart Reverse Parking Using Raspberry Pi", International Journal of Science Research & Engineering. ISSN:2349-784X, Vol.3, Issue 07, March 2017 pp. 98-102

➢ Prof. Michelle Viegas, Fatima Shaikh, Valerie Vaz, Jyoti Kumari and Vismita Kolvekar published a paper titled "Intelligent Automatic Street Light Control System", International Journal for Scienctific Research & Development. ISSN:2321-0613, Vol.4, Issue 11, March 2017 pp. 202-205.

➢ Prof. Trima Piedade Fernandes e Fizardo, Egas Nunes, Yatish Naik, Jesuslee Pereira published a paper titled "Smart Metro Train" in International Journal of Science and Research (IJSR),ISSN(online):2319-7064,Volume 6 Issue 2,February 2017,Impact Factor:6.391

➢ Prof. Trima Piedade Fernandes e Fizardo published a paper titled "Smart License Card" International Journal of Science Technology & Engineering (IJSTE), Volume 3 Issue 07, January 2017,ISSN(online):2349-784X.

➢ Prof. Trima Piedade Fernandes e Fizardo, Navjyot Faldesai, Usapkar Yatin Digamber, Chavan Nehal Sadguru published a paper titled "Multi –Access Smart Card" in IJSRD - International Journal for Scientific Research & Development| , ISSN (online): 2321-0613,Volume 5 Issue 1, 2017.

➢ Prof. Kimberly Morais, Agnish Shirodkar, Sandesh Sawant, Vishal Valaulikar, Vijayalaxmi Hiremath published a paper titled "Energy Generation using Vehicular Movements and Vibrations" in International Journal of Scientific Research and Development, Volume 5: Issue 1, March 2017. ISSN: 2321-0613.

➢ Prof. Kimberly Morais, Sandesh Sawant, Agnish Shirodkar, Omkar Pednekar, Vijayalaxmi Hiremath published a paper titled "Railway Crack detection using LED" in International Journal of Scientific Research and Development, Volume 5: Issue 1, April 2017. ISSN: 2321-0613.

➢ Prof. Kimberly Morais, Vishal Valaulikar, Sandesh Sawant, Omkar Pednekar, Vijayalaxmi Hiremath published a paper titled "Automation of Railways" in International Journal of Scientific Research and Development, Volume 5: Issue 1, April 2017. ISSN: 2321-0613.

- Prof. Kimberly Morais, Ms. Lata Honawarkar, Mr. Dwayne Carneiro, Mr. Dion Rodrigues, Mr. Yerwin Fernandes published a paper titled "Indoor Positioning System" in International Journal of Science Technology & Engineering, Volume 3: Issue 9, March 2017. ISSN (online): 2349-784X.
- Prof. Kimberly Morais, Ms. Lata Honawarkar, Mr. Dwayne Carneiro, Mr. Dion Rodrigues, Mr. Yerwin Fernandes published a paper titled "RFID Based Indoor Positioning System" in International Journal for Scientific Research & Development, Volume 4: Issue 11, 2017. ISSN (online): 2321-0613
- Prof. Maria Samantha Cardoso, Mabel R. Luis, Diksha S. Lotlikar, Chrislin L. Fernandes published a paper titled "Smart Bin Using GSM Modem" in International Journal of Scientific Research and Development, Volume 4: Issue 12, Feb 2017. (ISSN:2321 0613)
- Prof. Maria Samantha Cardoso, Chrislin L. Fernandes, Gabriela B. Gonsalves, Diksha D. Dessai, Diksha S. Lotlikar published a paper titled "Moisture Sensing Unit for Waste Sorter Machine" in International Journal of Scientific Research and Development, Volume 4: Issue 11, Jan 2017. (ISSN:2321 0613)
- Prof. Maria Samantha Cardoso, Diksha D. Dessai, Gabriela B. Gonsalves, Mabel R. Luis, Prof published a paper titled "Dark Detector system for Paper waste detection" in International Journal of Scientific Research and Development, Volume 5: Issue 1, March 2017. (ISSN:2321 0613)
- Prof. Maria Samantha Cardoso, Amira Salkar, Shaine Mendes, Seema Helawar published a paper titled "Wireless Communication using RF Module and Interfacing with 8051 Microcontroller" in International Journal of Science Technology & Engineering, Volume 3: Issue 7, Jan 2017. (ISSN (online): 2349-784X)
- Prof. Vidhya D S, Santosh Yerzeri, Vishnu Singh, Abhishek Fernandes published a paper titled "Device control using Powerline communication" in International Journal of Scientific Research and Development, Volume 4: Issue 12, Feb 2017. (ISSN:23210613)
- Prof. Vidhya D S, Ishwari kalyanshetty, Vijayadurga Naik, Kirti Naik, Sphoorti Naik published a paper titled " Survey on Wireless Control Live Streaming BOT " in International Journal of Scientific Research and Development, Volume 4: Issue 11, Jan 2017. (ISSN:23210613)
- Prof. Vidhya D S, Santosh Yerzeri, Vishnu Singh, Abhishek Fernandes published a paper titled "Powerline Communication based current theft and device control" in International Research Journal of Engineering and Technology (IRJET), Volume 4: Issue 5, May 2017.
- Prof. Vidhya D S, Vijayadurga Naik, Ishwari Kalyanshetty, Sphoorti Naik, Varun Pawar published a paper titled " Wireless Communication of Spy BOT " in International Journal for Scientific Research and Development (IJSRD), Volume 5: Issue 3, May 2017 (ISSN:2321 0613).
- Prof. Anisha Cotta, Shaikh Mohammed Ibrahim, Jason Antao, Adrian Fernandes published a paper titled "Design and fabrication of automated multi-level car parking" in International Journal for Scientific Research & Development,ISSN: 2321-0613,Volume4, Issue 11, 2017.
- Prof. Anisha Cotta, Adrian Fernandes, Omkar Gurav, Nikhil Gaonkar, published a paper titled "Automated Multilevel car parking" in International Journal for Scientific Research & Development, ISSN: 2321-0613, Volume 5, Issue 01, 2017.
- Prof. Anisha Cotta, Mohish Mapxencar, Saisha Pai Angle, Srushti Prabhu Khope, Ashika Verenkar published a paper titled "Internet Of Things" in International Journal for Scientific Research & Development,ISSN: 2321-0613,Volume 5, Issue 01, 1st April 2017.
- Prof. Anisha Cotta, Srushti Prabhu Khope, Pranav Raut Dessai, Saisha Pai Angle, Mohish Mapxencar published a paper titled "Android Based Home Security System" in International Journal for Scientific Research & Development,ISSN: 2321-0613,Volume 5, Issue 01, 16th April 2017.

- Prof. Anisha Cotta, Saisha Pai Angle, Srushti Prabhu Khope, Pranav Raut Dessai, Ashika Verenkar published a paper titled "Image Processing" in International Journal for Scientific Research & Development,ISSN: 2321-0613,Volume 5, Issue 01, 1st April 2017.

- Prof. Anisha Cotta, Ashika G. Verenkar, Saisha Pai Angle, Mohish Mapxencar, Pranav Raut Dessai published a paper titled "ANDROID ENABLED HOME AUTOMATION SYSTEM USING RASPBERRY PI" in International Journal for Scientific Research & Development,ISSN: 2321-0613,Volume 5, Issue 01, 1st April 2017.

- Prof. Anisha Cotta, Pranav Raut Dessai, Saisha Pai Angle, Mohish Mapxencar, Ashika Verenker published a paper titled "HOME AUTOMATION USING IOT" in International Journal for Scientific Research & Development,ISSN: 2321-0613,Volume 5, Issue 01, 1st April 2017.

- Prof. Melba Lira D'Souza, Shruty Joshi, Aarti Kumari, Saiesh Sangodkar, Pooja Pai published a paper titled "Voice operated fire extinguisher Robot", International Journal for scientific research and development, volume 4, Issue11, Jan 2017, ISSN[ONLINE]:23210613.

- Prof. Melba Lira D'Souza, Shruty Joshi, Aarti Kumari, Saiesh Sangodkar, Pooja Pai Published a paper titled "Voice Recognition system" published in the Board of Journal for Research, Volume 3, Issue 1, March 2017, ISSN:2395-7549.

- Prof. Melba Lira D'Souza, Chetali U. Vaiganker, Rakshanda M. Mapari, Desmond Pereira published a paper titled "Modified solar grass cutter",International journal for scientific research and development, volume 5, Issue1, March 2017, ISSN (online): 2321 0613..

- Prof. Melba Lira D'Souza, Vaidhavi B. Naik, Rucha V. Bicholkar published a paper titled "Automized Solar grass cutter", International Journal of science Technology and Engineering, volume 3, Issue 7, January 2017, ISSN (online): 2349-784X.

- Vishnu Singh, Abhishek Fernandes, Simon Fernandes, Abdul Rashid Nadaf, Santosh Yerzeri. published a paper titled "Power Line Communication based Current Theft with Smart Home Automation" in International Journal of Scientific Research and Development, Volume 5: Issue 2, 2017. (ISSN:2321 0613).

- Celso Furtado, Jeshley Rebello published a paper titled "RFID based metro train ticketing system" in International Journal of Science Technology & Engineering, ISSN (online): 2349-784X, Volume3, Issue 9, March 2017.

- Ishwari Kalyanshetty, Vijayadurga Naik, Kirti Naik, Sphoorti Naik, Varun Pawar published a paper titled "Wireless Control Live Streaming BOT" in International Journal of Science Technology & Engineering, Volume 3: Issue 9, March 2017. ISSN (online): 2349-784X.

- Mr. Zain Rajani participated in NPTEL Online Certification Course on Embedded Systems Design, Foundations of Wavelets Systems Design & Medical Image Analysis organized by IIT Kharagpur from January to April 2017 and secured a consolidated score of 54% in each.

- Mr. Dwayne Brandon Carneiro and Ms. Saptak Banerjee won 1st place at battle of bands event held at Parvatibai Chowgule College of Arts and Science on the 16th of February 2017.

- Mr. Dwayne Brandon Carneiro and Mr. Dion Francis Dourado Rodrigues won 1st place in an instrumental event "Strings" at Parvatibai Chowgule College of Arts and Science on the 16th of February 2017.

- Mr. Dwayne Brandon Carneiro and Mr. Dion Francis Dourado Rodrigues won 2nd place in 'Happenings' at GEC.

- Dwayne Brandon Carneiro also won 1st place at Don Bosco College Panaji at the battle of bands event during their event "INSIGHT".

# FACULTY INITIATIVES

## Project Exhibition "TECHNIX"

The Electronics and Telecommunication Department of Don Bosco College of Engineering organized '**TECHNIX 2017**' on Saturday, 29th April 2017.

The exhibits were divided in two categories: Mini project category and Academic projects. There were about 11 mini and 16 academic projects.



The judges for the exhibition were Dr. H.G Virani, Professor and HOD of ETC Dept., GEC, Prof. Sailesh Khanolkar, Associate Prof., ETC Dept., PCCE and Prof. Prathamesh Bhatt, Asst. Prof., ETC Dept., AITD.
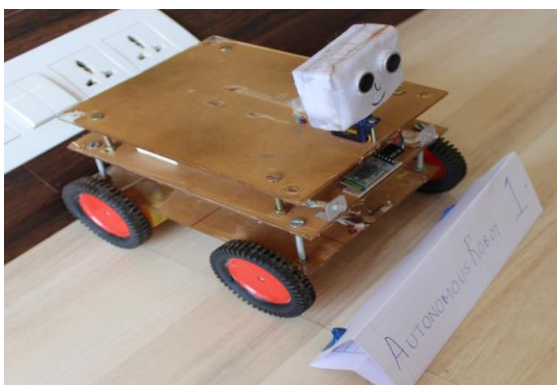
The judges keenly observed all the exhibits and asked a lot of questions to the student. In the academic project category some of the projects on display were multilevel parking facility, Fire Fighter Robot,Waste Sorter Machine, Smart Railways, Solar Grass Cutter, Innovative Transport Management for cities, Multilevel Parking System.



In the mini project category, Autonomous Robot, Arduino based Water Level Indicator, Balancing Scooter, Arduino Radar, Magneto Candle, Mobile bug were among the few of the projects that were displayed.



In the academic project category, the first place was bagged by the students who presented the Multilevel Parking System project. In the mini project group, the Balancing Scooter bagged the first place.The judges keenly observed all the exhibits and asked a lot of questions to                                    the                                    student.

## Faculty Development Programme (FDP) "Raspberry Pi"

The Department of Electronics and Telecommunication Engineering of Don Bosco College of Engineering organized a Two Day Faculty Development Programme (FDP) on **"Raspberry Pi"** on 23rd and 24th of June 2017, for the faculty members of Engineering colleges and Polytechnics.

The FDP started with a brief overview of the architecture of the Raspberry Pi. Complete installation process right from loading of the operating system onto the Raspberry and mapping the IPs was shown. Python programming language was introduced along with an understanding of the GPIO interface, followed by hands-on session where T-SOP and Ultrasonic sensors, LEDs and Motors were interfaced with the Raspberry Pi.



The FDP ended with a Valedictory Programme, where the faculty members were awarded a certificate for the same. The feedback given by the faculty members was overwhelming. Dr. Neena Panandikar, Principal of Don Bosco College of Engineering and Prof. Michelle Araujo, HOD of ETC Department appreciated the resource person Mr. Milroy Dourado for his in-depth knowledge in the domain. Prof. Mathilda Colaco read the report of the two days FDP followed by vote of thanks given by Prof. Flavia Leitao. Prof. Deron Rodrigues compered for the Valedictory Pogramme.

The coordinators for the FDP were Prof. Flavia Leitao and Prof. Mathilda Colaco.

## CERTIFICATIONS

➢ Prof. Deron Rodrigues participated in an 8 Week NPTEL Online Certification Course on An Introduction to Coding Theory, held from January to March 2017. Prof. Deron Rodrigues appeared in the top 5% having a consolidated score of 75% marks in the Online Certification exam held on 25th March.

## PAPER/ JOURNAL PUBLICATIONS

➢ Prof. Vidhya D.S. published a paper titled "A Novel Design in Formal Verification Corresponding to Mixed Signals by Differential Learning", in Proceedings of 6th International Conference of Software Engineering Trends and Techniques in Intelligent Systems. CSOC 2017. Advances in Intelligent Systems and Computing, volume 575. Springer, Cham.

## WORKSHOPS/SEMINARS/EXPERT TALKS CONDUCTED

➢ Prof. Flavia Leitao and Prof. Mathilda Colaco conducted two days workshop on "Schematic & Layout using OSCAD" for the students of BE-ETC on 9th &10th of Jan 2017.
➢ Prof. D.S Vidhya conducted one day workshop on "Project Report Writing" for the students of BE-ETC on the 11th of Jan 2017.
➢ Prof. Daron Rodrigues and Prof. Vishnu Rathod conducted two days workshop on "Image Processing" for the students of BE-ETC on 12th &13th of Jan 2017.
➢ Prof. Flavia Leitao and Prof. Mathilda Colaco conducted one day workshop on "PCB Design" for the students of SE-ETC on 14th of Jan 2017.
➢ Prof. Madhukar Achar and Mr. Nathan Pereira conducted one day workshop on "MATLAB" for the students of SE-ETC on 14th of Jan 2017.
➢ Prof. Flavia Leitao and Prof. Mathilda Colaco conducted one day workshop on "LabVIEW" for the students of TE-ETC on 3rd April, 2017.

## WORKSHOPS/SEMINARS/EXPERT TALKS ATTENDED

➢ Prof. Michelle Viegas, Prof. Trima Fizardo, Prof. Kimberly Morais, Prof. Anisha Cotta, Prof. Samantha Cardoso, Prof. D.S. Vidhya, Prof. Melba Dsouza, Prof Darren Rodrigues and Prof. Vishnu Rathod attended a one week TEQIP-II ISTE Workshop on "IoT with Cloud" organized by department of Computer Engineering, Don Bosco College of Engineering from 2nd to 6th Jan 2017.
➢ Prof. D.S. Vidhya and Prof Darren Rodrigues attended a two weeks ISTE STTP on "CMOS, Mixed signal and Radio Frequency VLSI Design" organized by Indian Institute of Technology, Kharagpur from 30th Jan to 4th Feb 2017.
➢ Prof. Flavia Leitao, Prof. Mathilda Colaco and Prof. Vishnu Rathod attended a webinar on "Cloud Computing" organized by Department of Computer Engineering, Don Bosco College of Engineering on 1st March 2017.
➢ Prof. Michelle Viegas, Prof. Trima Fizardo & Prof. Anisha Cotta attended a Workshop on "Embedded Systems" organized by Goa College of Engineering on 27th April 2017.

## Community outreach

Prof. Michelle Viegas delivered a session titled "Career in Electronics and Telecommunication Engineering" at the Seminar "Career in Engineering" held for students of 10th, 11th and 12th Standard on the 13th May 2017 at Don Bosco College of Engineering, Fatorda

# 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, Citrix, Amazon, IBM, GervanoRA Data Services LLB, Trade Ocean Cargo & Logistics, V-Dart Software Services. A total no of 30 students were place from the June 2017 batch.

# UPCOMING EVENTS

- "Industrial Internship" scheduled for BE ETC students from the 3rd July to 15th July 2017.
- In House training on "PLC and SCADA" scheduled for TE ETC students from the 3rd to 8th July 2017.
- "MATLAB" workshop scheduled for SE ETC students on 8th of July 2017.
- "PCB Design" workshop scheduled for SE ETC students on the 12th of Aug 2017.
- "NS2 Tool" workshop scheduled for BE ETC students on the 12th of Aug 2017.
- "Inter college Technical Event" for the Electronics and Telecommunication students on the 7th and 8th September 2017.
- Field visits scheduled for the SE, TE and BE ETC students in various industries.
- Expert lectures scheduled for the SE, TE and BE ETC students to get industry exposure.
- Workshop on "LABVIEW" for TE ETC scheduled on the 23rd September 2017.
- "HDL" workshop scheduled for TE ETC students on the 14th of October 2017.