IMPACT OF MOU

Electronics and Computer Science Departmental Newsletter
(Formerly known as Electronics & Telecommunication Engineering)
(July 2022 - June 2023)

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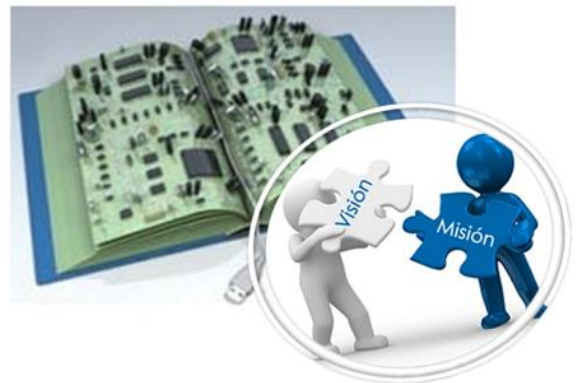
- ➢ **MoUs Signed**
  - Autotech Builds Automation, Mapusa, Goa and DBCE
  - Eduvance, Educational arm of Vanmat Technologies Pvt. Ltd., Santacruz (East), Mumbai and DBCE
  - Enviro Guru (OPC) Pvt. Ltd.
  - InfiCorridor Solutions Private Limited
  - SUN360
  - Mrinq Technologies LLP
- ➢ **Trainings/Workshops/ FDPs/Expert Talk conducted**
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VISION

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

MISSION

- To impart quality education abreast with advances in technology and transform students into competent professionals.
- To promote innovation, research and entrepreneurship through collaboration and networking.
- To encourage various skill enhancing activities and extra-curricular activities to foster high levels of work ethics and responsibility for a better society.

Memorandum if Understanding (MoU)

MoU with Autotech Builds Automation, Mapusa, Goa

A bipartite agreement in the form MoU was signed between Don Bosco College of Engineering, Fatorda, Goa and Autotech Builds Automation, Mapusa, Goa on 5th July 2018 in the Don Bosco Engineering College (DBCE) Campus.

Rev. Fr. Kinley D'Cruz (Director, DBCE) and Mr. Subodh Mone (Autotech, Mapusa, Goa) signed the MoU in the presence of Dr. Neena Panandikar (Principal, DBCE), Prof. Michelle Araujo (HOD, DBCE) and Prof. Flavia Leitao (Asst. Professor, DBCE).

After signing the MoU, Mr. Subodh Mone discussed the scope and objectives of the MoU, by stating that the MoU will:

- Provide Training and Internship as well as Placements at their organization or Placement Assistance at other organizations to the students of Don Bosco Engineering College.
- Conduct workshops, Training sessions, Guest lecturers and Technical model competitions at either organization as per the need and availability of the required resources.
- Conduct Field Visits at their organization or other organizations that are in collaboration with Autotech, Mapusa.

Impact of MoU, ETC Engineering Department, DBCE Goa

MoU with Eduvance, Vanmat Technologies Pvt. Ltd., Santacruz (East), Mumbai

Don Bosco College of Engineering, Fatorda, Goa has signed Memorandum of Understanding (MoU) with Eduvance, the educational arm of Vanmat Technologies Pvt. Ltd., Santacruz (East), Mumbai on 28th Sept. 2018.

Rev. Fr. Kinley D'Cruz (Director, DBCE) and Dr. Johnathan Joshi (CEO-Eduvance) signed the MoU in the presence of Dr. Neena Panandikar (Principal, DBCE),Dilip Balasubramanian (Training manager- Eduvance), Asst. Prof. Trima P. Fernandes e Fizardo (In-charge HOD, DBCE), Prof. Varsha Turkar and Asst. Prof. Flavia Leitao.

After signing the MoU, Mr. Dilip Subramanian discussed the scope and objectives of the MoU, by stating that the MoU will:

- Set up an "Embedded Systems Lab" at the Electronics and Telecommunication Engineering Department with hardware (PSoC-4 ARM Cortex kits) and licensed PSoC creator software donated by Cypress Semiconductors.
- Offers value added courses in collaboration with Cypress University Alliance (CUA) and courses created by Eduvance.

Prof. Flavia Leitao is identified as the SPOC (Single Point of Contact) for all Eduvance related activities.

Impact of MoU, ETC Engineering Department, DBCE Goa

MoU with Enviro Guru (OPC) Pvt. Ltd., InfiCorridor Solutions Private Limited, SUN360 and Mrinq Technologies LLP

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) in the presence of Hon. Chief Minister – Dr Pramod Sawant.

Out of the 23 MoUs Signed, 4 were with the Industries in the Electronic Domain, which are as follows: Enviro Guru (OPC) Pvt. Ltd., InfiCorridor Solutions Private Limited, SUN360 and Mrinq Technologies LLP.

The Objectives and scope of the MoU was to:
- To identify domains with mutual interest, and to further collaborate for capacity-building, research and development.
- To provide mentoring to selected students by the industry-counterpart in the form of internship and guidance for academic projects.
- To organise lecture series for students from industry experts.
- To aid learning process with hands-on in the form of guided mini projects.
- To enable interaction of college teaching staff with industry professionals for research and development.

Impact of MoU, ETC Engineering Department, DBCE Goa

AUTOTECH: Finishing School on PLC, VFD and HMI

The Electronics and Computer Science Department (formerly known as Electronics and Telecommunication Department), of Don Bosco College of Engineering, Fatorda, conducted a **Finishing School**, in association with Autotech Technologies on Industrial Automation Training. It was an 18 day course, which went on from 14th September to 12th October 2022, and was based on Programmable logic controller (PLC), Variable-frequency drive (VFD) and the Human-Machine Interface (HMI) module of Industrial Automation.

The course started with a brief introduction on DELTA VFD which included introduction to motor and explanation on motor name plate and some basic information on VFD, its advantages, and uses. Later students were shown to program a VFD by putting different VFD parameters. Reverse and forward motion of the motor was shown using the VFD. The other important concepts which were covered in the VFD module were Braking, multistep speed command, relay triggering, external input wiring, sensor wiring, and Load connection.

The second topic was on Programmable Logic Controller. The PLC that was covered for the students was Allen Bradley Micrologix 1000. The final topic that was covered was Delta HMI. In the initial introduction to HMI, the students were taught to handle a keypad HMI and different communication ports of HMI to communicate with PLC.

Towards the end of the course, Students visited Autotech Technologies Lab based in Sanquelim wherein they were shown Conveyor belt and some other Industrial equipments. The entire program was coordinated by Prof. Flavia Leitao, under the guidance of the HOD Dr. Varsha Turkar.

Spintly - Internship

Ms. Anrea Peixoto from BE ETC did an Internship with Spintly formerly known as Mrinq Technology, as Software Development Intern, from 22nd August to 15th October 2022, where she worked in the field of **Node.js**

The Co-founder and CTO of Spintly Mr. Malcolm D'Souza who is a part of our **Academic Advisory Board** (AAB), has helped us with the Vision and Mission of the new course ECS (Electronics and Computer Science)

Spintly: Judge for Technix 2023

The Final Year Project Quality Assurance Committee, Department Of Electronics and Computer Science in association with Don Bosco Electronics and Telecommunication Society (DBEATS) organized Technix 2023 from May 5th to May 13th, 2023. The primary aim of this competition is to encourage budding engineers to exhibit their novel ideas and innovative projects. The jury for Technix 2023 were **Mr. Rishu Shrivastav, Lead-Software delivery-Spintly,Goa** and Ms. Ashika Verenkar, Manager-enterprise sales at Schneider Electric, Mumbai.

More than 50 groups registered for the competition. The event saw entries from various colleges all over India.

The project were based on latest trending domains like Augmented Reality, Robotics, Embedded Systems, Signal Processing, Machine Learning, Artificial Intelligence, Biomedical Engineering, Communication Engineering, 3D printing, Mechatronics.

Sun 360 – Expert Talk on Solar Energy

Expert talk on "**Solar Energy- Technology for sustainable growth**", by Mr. Anish Souza, Founder and CEO of Sun 360, on 10th September 2022, under Tech Talks 2022- Edging towards a connected future

Sun 360 – Chief Guest for the Valedictory function of STTP

The Department of Electronics and Computer Science, Don Bosco College of Engineering in association with Government College of Commerce and Economics , Margao and Directorate of Higher Education, Government of Goa organised a one week ISTE STTP on "A Practical Approach to IoT and its Applications".

Mr. Anish Sousa, founder of Sun 360 was the Chief Guest for the valedictory function held on June 16th 2023, for the One Week ISTE STTP on "A Practical Approach to IoT and its Applications". The workshop was attended by 38 participants from institutes like Shree Rayeshwar Institute of Engineering & Information Technology, Goa University, Bhatikar Model High School, P.E.S's RSN College of Arts and Science, NIT-Goa, Loyola Higher Secondary School, Estellar Higher Secondary School of Excellence & Don Bosco College of Engineering- Fatorda.