



IMPACT OF MOU

Electronics and Computer Science

Departmental Newsletter

(Formerly known as Electronics & Telecommunication Engineering)

(July 2023 - June 2024)

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➤ MoUs Signed

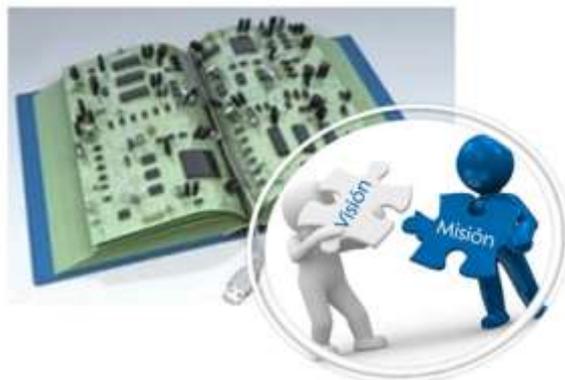
- Autotech Builds Automation, Mapusa, Goa and DBCE
- Eduvance, Educational arm of Vanmat Technologies Pvt. Ltd., Santacruz (East), Mumbai and DBCE
- Enviro Guru (OPC) Pvt. Ltd.
- InfiCorridor Solutions Private Limited
- SUN360
- Mring Technologies LLP

➤ Trainings/Workshops/ FDPs/Expert Talk conducted

- Judge for Kshitij by Autotech
- Finishing School by Autotech
- Expert Talk by Sun360

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 of 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.



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.

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.



Academic Year 2023-24

Autotech Technologies: Judge for Kshitij

Mr Subodh Mone, Proprietor of Autotech Technologies was called as a Judge for Kshitij 2023, for the Academic and Mini Projects category in the Electronics and Computer Science Department, on 18th August 2023.



Autotech Technologies: 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 7th August to 31st August 2023, and was based on Programmable logic controller (PLC), Variable-frequency drive (VFD) and the Human-Machine Interface (HMI) module of Industrial Automation.

Autotech trained 20 students on Industrial Automation from Don Bosco College of Engineering, Goa Engineering College, Padre Conceicao college of Engineering and Curchorem polytechnic.

Mr. Sandeep Mone, Proprietor of Autotech Technologies and Ms. Sanjita Nadkarni, Associate of Autotech Technologies, were the resource persons for this course.



Students from Electronics and Telecommunication Engineering and Mechanical Engineering were part of this Finishing School. Prof. Flavia Leitao was the overall coordinator of the Finishing School 2023. The different brands that were covered under this course were DELTA VFD, ALLEN BRADLEY PLC and DELTA HMI. The course started off with the first topic as DELTA VFD which included introduction to motors, VFDs, its advantages and applications. This was followed by programming the VFD, Reverse and forward motion of the motor, Braking, multistep speed command, relay triggering, external input wiring, sensor wiring, and Load connection.

The second topic was the Programmable Logic Controller. Here students were introduced to Allen Bradley Micrologix 1000, its softwares and basics of Ladder Programming. The topics covered were Basic gates, One Shot Rising, Latching, Interlocking, Binary bit concept, Timers and Counters, and some advance programs with Industrial examples. This was then followed by wiring of the PLC where students were taught to wire inputs as well as output such as Indicators and Relays.

The final topic that was covered was Delta HMI. Here students were taught to handle a touch screen HMI and different communication ports of HMI to communicate with PLC. The concepts covered here were Page generation, Tag generation and Downloading pages to PC, including communication between the PLC and HMI.



On the 1st September 2023, the Valedictory function was held of the Finishing course, which was graced by the Director Rev. Fr. Kinley Dcruz, Principal Dr. Neena Panandikar, HOD of ECE/ETC Dr. D.S. Vidhya and the Resource persons Mr. Sandip Mone and Sanjita Nadkarni. The students were awarded certificates for the course, after which the students shared their valuable feedback where they mentioned how enriching and fruitful the course was in making them Industry ready. Prof. Flavia Leitao was the overall coordinator of the Finishing School 2023.



SUN360: Speaker for Tech Talks 2024

The Institute Industry Cell (IIC) of Don Bosco college of Engineering, Fatorda, organized Tech Talks 2024 – Edging towards a connected future, for the Electronics and Computer Science department on 26th March 2024.



Our speaker Mr. Mavin Kaysukar, Sr. Solutions Engineer - SUN360, gave a talk on, “**Illuminating the future using solar technology**”. Mr. Mavin Kaysukar emphasized the significance of transitioning to renewable energy sources amidst the rapid depletion of fossil fuels. He commenced by providing students with an overview of the origins of solar energy. Mr. Kaysukar walked the students through the intricacies of grid and hybrid models for solar energy installation. In addition, he discussed various emerging technologies such as Solar Edge technology, Perovskites, Tandem Solar, Flow Batteries, and Green Hydrogen. Solar Edge technology, for instance, was highlighted for its advancements in optimizing solar panel performance and improving overall system efficiency. He also discussed Flow Batteries as a promising energy storage solution, capable of storing large amounts of renewable energy for later use, contributing to grid stability and reliability.

Overall, his discussion on these emerging technologies underscored the ongoing advancements and innovation within the renewable energy sector, offering promising solutions to address the world's energy needs while mitigating environmental impact.

The Event coordinators were Prof. Flavia Leitao and Prof. Samantha Cardoso.

