



# IMPACT OF MOU

Electronics & Telecommunication Engineering  
Departmental Newsletter (July 2018- June19)

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### ➤ MoUs Signed

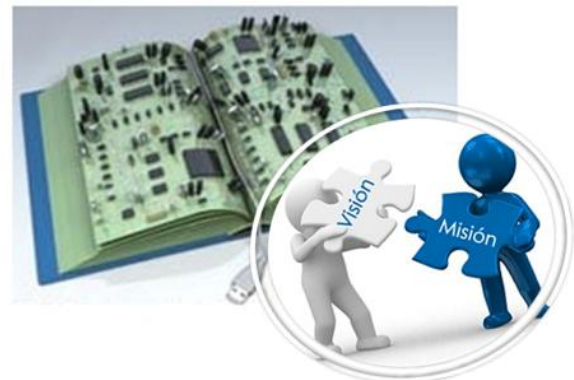
- Autotech Builds Automation, Mapusa, Goa and DBCE
- Eduvance, Educational arm of Vanmat Technologies Pvt. Ltd., Santacruz (East), Mumbai and DBCE

### ➤ Trainings/Workshops/ FDPs/Expert Talk conducted

- ARM CORTEX FDP
- Embedded Systems & IoT Workshop

## VISION

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



## MISSION

- To impart education abreast with the fundamentals and 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 various skill enhancing activities and extra-curricular activities to instil 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 5<sup>th</sup> 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 28<sup>th</sup> 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.

### EDUVANCE: Faculty Development Programme (FDP) on “ARM CORTEX”

To provide knowledge sharing on the latest technologies with the faculty, the Department of Electronics and Telecommunication Engineering of Don Bosco College of Engineering (DBCE) organized a one Day Faculty Development Programme (FDP) on “**ARM Cortex**” on 29th Sept. 2018, as a part of the MoU signed between Eduvance and DBCE, where the two expressed mutual interest in setting up an “**Embedded Systems Lab**” at the Electronics and Telecommunication Engineering Department with hardware donated by Cypress Semiconductors.

The Embedded Systems lab setup included 7 PSoC-4 Bluetooth Low energy kits (ARM Cortex M0 Based) and PSoC Creator Software with user licenses.



The resource person for the FDP was Mr. Dilip Balasubramanian, Training Manager – Eduvance. The FDP started with a brief introduction on Embedded Systems and System on Chip (SoC). Then PSoC creator software was introduced where the faculty was taught how to create a project, and the stages of design which included Design Schematic Entry, Design Drawing and main.c. The participants were then given a detailed understanding of all the components on the PSoC4 kit. After which they did a complete hands-on of three applications using the RGB LED, ADC and the PWM.

The coordinators for the FDP were Dr. Varsha Turkar and Asst. Prof. Flavia Leitao.

## EDUVANCE: Certified Course on “Embedded Systems & IoT”

As a part of the Internship training, the Electronics and Telecommunication department of DON BOSCO College of Engineering in collaboration with Eduvance conducted 2 weeks certified course on “Embedded Systems & IoT”, for the T.E and B.E students of ETC from the 2<sup>nd</sup> to 12<sup>th</sup> of Jan 2019. A total of 52 students attended the workshop that was certified from Microchip and AMD through Eduvance.

The training basically concentrated on how to interface the different peripherals like sensors and how to transmit and receive data using the Arduino platforms. The two resource persons were Mr. Dilip Balasubramaniam and Mr. Nikunj Thakkar.

The students had hands-on sessions on how to interface LEDs, switches and toggle LED's, LCD to display characters. The PWM features and programs using PWM to control the brightness of the LED was taken up next, followed by how to interface different sensors like Temperature, LDR, PIR. Programs based on nRfL01. The session on IoT continued where they were explained about Thingspeak which is a cloud where you can store data. The students were taught how to upload values to the cloud and read the values from the cloud. In the afternoon session students were introduced to WiFi module ESP8266 using which how one can communicate with the cloud.

In the end, GRADE ME assessment was conducted for the students, which could help them with placements.

The coordinators for the Workshop were Dr. Varsha Turkar and Prof. Flavia Leitao.

