

INTEL RESEARCH LABORATORY

Memorandum of Understanding

Hindusthan College of Engineering and Technology, Coimbatore, Tamil Nadu has entered into a **Memorandum of Understanding** with **Intel®- FICE** (Foundation for Innovation and Collaborative Education) on **29th September 2015**. The centre has been **Inaugurated by Mrs. Priya Satish Prabu**, Joint Secretary, Hindusthan Education and Charitable Trust, Coimbatore along with **Mr. G. Pradeep**, National Head, FICE, Bangalore.

Objective

The purpose of this MOU is to specifically bring the attention of the institute, the relationship of Intel with the program and how the program is managed by FICE. The MOU also serve as a framework to describe Intel's relationship with the Institute and with FICE. Upon the execution of this MOU, institute and FICE may discuss and negotiate the potential transactions relating to the program including setting up of lab in greater detail, which may include entering into binding agreements for the implementation of the program.

INTEL® Intelligent Systems Lab

The Lab has been setup to enhance the student's' technical skills in order to bridge the gap between industry and academic .FICE is also committed to support in assisting students for the academic projects by providing training and certification there by generating employment. This program entails establishment of Intel® Intelligent Systems Lab within Hindusthan College of Engineering and Technology premises. The lab has been established as an unit of **"Center of Excellence"** with **10 Intel Galileo Gen 2 Boards, WiFi, GPS, GSM, around 50 sensors and actuators, Antennas, Micro SD cards with Linux OS, FDDI and Micro USB cables along with 20 dedicated highly configured computers with LAN powered by high speed internet in a cozy and professional environment at Hindusthan College of Engineering and Technology. INTEL® Intelligent Systems Lab** is a unique platform to fine-tune software and core skills of our students and to create numerous certified professionals with competitive skills which are mandatory for industries. By setting up this **INTEL® Intelligent Systems Lab** students are trained by Intel/ trainers on **Intel Galileo Gen 2 Board** and develop applications using either Open Source **Aurdino IDE or Python Software**. The students shall be selecting a project and they shall work on these projects with online support from Intel and mentoring by the Intel trained Faculty in our department. After 3 months, the Intel Technical team shall evaluate the projects done by the students and they shall get internship by INTEL. Students or Faculty registered for Intel Training shall have other facilities of Interacting through forum, blogs, etc with other Intel Galileo Community Groups.

Benefits to the participants

The registered students can participate in **any Intel Innovation and Ideation camp** conducted by Intel across the country and **display their project idea/product talent**, the **winners will participate in international events**. Registered Students who complete their projects and evaluated can have the Internship opportunities to develop their projects and ensure rich possibilities to land in placements in those companies.

1st Training Program

As a first phase **51 students and 11 faculty** members from various departments were trained by Intel Trainers for four days from **03/02/2016 to 06/02/2016**. Mr. Abdul Samad and Miss Yamini Shali, Technical Trainers from FICE trained the participants. The students were able to design a complete IoT based ideas and prototypes. At the end of the sessions various assessments are conducted for students and staff members separately to ensure the level of learning. The feedback from the participants was really great. **11 faculty members are awarded Intel Certified Trainers and so they can conduct the IoT course by themselves.**

Post training activities

After the training 10 batches were formed with a guide for each batch and instructed to develop a prototype model based on IoT. The prototype ideas were sent to Intel FICE Technical team. Among that one of the project titled **“Smart Bus Tracking System”** developed by **Bragadeesh Roshan and his Team** guided by **Dr. M. Sudha HOD/ECE** got **Best Project Award** in the **Idea Innovation Camp** held at **Bangalore** on **April 16th and 17th**.

2nd Training Program

As a continuous improvement process the 2nd phase of the **4 days training** was also conducted successfully with **42 students and 2 faculty** members from **05/05/2016 to 08/05/2016**. Mr. Abdul Samad and Mr. Suryender Sharma, Technical Trainers from FICE trained the participants. The students came up with many innovative ideas and they are implementing the same with the available resources.

3rd Training Program

3rd phase of the **1 week training** was also conducted successfully with **51 students** from **21.12.2017 to 27.12.2017**. Well trained internal faculty members trained the participants. The students came up with many innovative ideas and they are implementing the same with the available resources.

Upgrading the laboratory

In order to shift this process to next level, our institution has initiated the process to craft the **INTEL® Intelligent Systems Lab** to **INTEL® Research Lab**. Soon few Intel Edition boards will be available in the lab and further there will be an **Innovation and Entrepreneurship Program** which focuses on ubiquitous, high quality and market relevant educational interventions to our young students. **The course will have duration of 2 to 3 years. 2nd and 3rd year students will be trained on this course with Technical Ideation Camp and Entrepreneurship Program.**

