

A REPORT ON



**Two Day Student Short Term Training Program
On
LabVIEW**

TEQIP

(25th August- 26th August,2018)

**Organized by Department of Instrumentation Engineering,
Jorhat Engineering College, Jorhat**

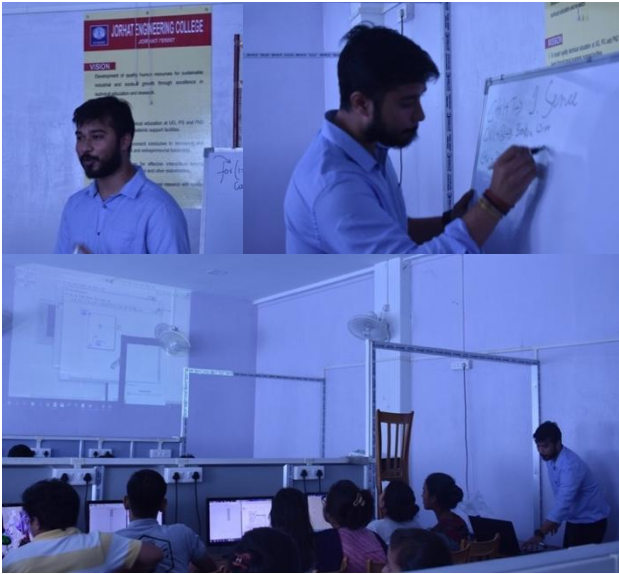
The department of Instrumentation Engineering, Jorhat Engineering College, Jorhat has conducted a two day Short Term Programme for the students of Jorhat Engineering College on 25th and 26th August, 2018. The registration and inauguration of the program started at the scheduled time at the department seminar hall and the resource person, Mr. NilutpalChoudhury and the dignitaries arrived at 9 am. The inaugural program started with the welcome speech by the Co-ordinator followed by the HOD (Instrumentation Engineering) and Prof. (Dr.) C. Sahu. The felicitation of the guest was done by the HOD, Instrumentation Engineering.



The resource person Mr. NilutpalChoudhury is a certified LabVIEW expert and RF consultant with an experience of working with National Instruments (NI), the maker of LabVIEW. He is also the CEO and Founder of AvGarde Systems, Bangalore. The inauguration session ended with a motivational talk by Mr. Choudhury. After the inaugural session without any delay, the Training programme started in the Computer centre of the department as per the schedule. The resource person started from the very basic with hands-on and he explained the use of each and every command with practical examples. The students participated actively in the event by interacting with full of energy. In the

first half of first day, the basics of LabVIEW along with trouble shooting and debugging in LabVIEW was covered. The resource person also taught them the way to develop modular application in LabVIEW. All these were practically done by the students in the Lab. The participants have gained enough knowledge from the practical examples and practical sessions.

The second session of the day dealt with Sampling Theorem, Analog I/O, Digital I/O, Usage of Laboratory Instruments with Soft Front Panels and Device Driver Programming. The second day started with MyRIO demonstration. The Hybrid Architecture (RTOS+FPGA) was explained to the participants in detail. The two sessions dealt with practical real time example



where the resource person used MyRIO to generate and acquire signals. The students could generate Counter signals using MyRIO in FPGA under his guidance. The entire process of designing a simple Temperature control application was done in the Lab by the students under his guidance.

The very objective of the programme was to motivate the students about the domain of Instrumentation and provide them the necessary insight on the opportunities in academia and industry. From the workshop students have gained knowledge about how to approach Engineering problems using LabVIEW. The final year students were

highly benefitted as they can now use this software in their final year project. The first, second and third year students were motivated to explore such tools and to use them whenever necessary. In short the workshop has provided a foundation in use of this software for real time applications.

Coordinators: 1. Ms NabasmitaPhukan
2. Mr Pranjal Jyoti Hazarika