

REGISTRATION FORM

(To be filled in block letters)

Name:

Department:

Institution:

IET Membership ID:

Address:

Mobile:

Email ID:

Registration

IET Member : No registration fee. Kindly attach membership proof.

Non-IET Member: Rs.300/- can be paid to Bank of Baroda Bank. Account No.: 75330400000013 IFSC Code: BARB0VJVELT (Fifth digit is Zero).

Registration Link:

<https://bit.ly/36RCxd3>

Date:

Place:

Signature of the Participant

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Dr. Sagunthala Rangarajan
Foundress Chancellor

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HoD - ECE

ORGANIZING SECRETARIES

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Associate Professor - ECE

Dr. S.G. Rahul
Assistant Professor - ECE

Mr. V. Vinoth Kumar
Assistant Professor - ECE



Vel Tech

Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

Three Days Workshop on Smart System Design for Industrial IoT Applications using LabVIEW



12th - 14th August 2021

Organized by

Department of Electronics and Communication
Engineering, School of Electrical & Communication

In association with

IET The Institution of
Engineering and Technology

About Vel Tech

Vel Tech is well-known for its renowned educational practices, which has been recognized and endowed with several awards. The founders of the Institution, Col. Prof. Vel. Dr. R. Rangarajan Chancellor & Founder President and Dr. Sagunthala Rangarajan Foundress President believes in Education for All despite their financial means which will promote and uplift the society. In accord to their vision, Vel Tech Mahatma Gandhi Scholarship scheme was started and has supported students since the inception. Vel Tech has bestowed 9500 scholarships worth approximately Rs. 35 Crores until 2019.

Global Alliances of Vel Tech has working International Relations with more than 390 Institution across 30 countries and has entered in the Memorandum of Understanding (MoU) with 120 Institutions for various Academic and Research exchange activities. Students, Faculty members, and Researchers get the collaborative platform for Academic projects, explore leading best practices and Research work with International Universities. Vel Tech believes that there are no boundaries in the pursuit of knowledge. Through these strategic alliances with International Universities, the standard of education at Vel Tech would be on par with the best in the world.

About the School

The School of Electrical and Communication at Vel Tech imparts Knowledge in electrical, electronics and all others allied areas. The students of the school actively participate in nationally reputed clubs such as robotics club and small device programming club, to enthuse and bring out their skills from them.

Many of faculty members of the school are doctorates from reputed institutions from India and abroad. The students of the school are involved in nationally significant projects namely small satellite projects in collaboration with international industries in France, Germany etc. The

department has been consistently producing illustrious engineers of the calibre and enabling them to occupy the prestigious position in the academic and industry fields.

About the Department

The department was established in 1996 with the focus on R&D and Academic excellence in the fields of Electrical and Communication engineering. The programmes offered by the department are in core electronics and Industry relevant domains at UG, PG and Ph.D. levels.

Unique mandate of this department are automotive Electronics, Communication Antenna, Embedded Systems, Small Satellites, VLSI and unmanned Air Vehicles (Drone).

Preamble

Industrial IOT has grown tremendously. Sensor data can be captured and preprocessed close to the machines by a smart edge device such as a CompactRIO or a PXI automated test system using LabVIEW. Industrial IoT is the future scope to make use of the smart systems for industrial applications.

Objectives

- To learn about Industrial IoT and its components.
- To explore with cloud platform for data storing, monitoring and analysis.
- To design a Smart system for Industrial applications

Outcomes

After attending this workshop, the students will be able to Carry out the integration of Cloud and IoT, Edge, Fog Computing, Data Accumulation, Storage and Analytics, Design and build a simple IIoT system using LabVIEW.

Course Contents

The course includes the following topics:

- IoT architectures, Devices, and Challenges in implementation
- Cloud based Development Platform for IoT applications
- Demo Session – Simulating an Automated System Model
- Demo on Simulation of Analog / Digital Signal analysis using DAQ Real Time Sensors and Interfaces
- MYRIO Hardware and Interfacing
- Overview of Universal Software Radio Peripheral

Dates To Remember

Last date for the Registration
04.08.2021

Intimation of Selection
05.08.2021

Confirmation by Participants
08.08.2021

Resource Persons

1. **Mr. Viswanathan Vaidyanathan**
Managing Director, ATS, Chennai.
2. **Mr. Nagarajan**
Senior Application Engineer, VI Solutions, Bengaluru
3. **Mr. K. Prakash**
Senior Application Engineer, Optithought, Chennai