

# Seventh School on System Design Using Microcontroller

Duration: One Week from 18<sup>th</sup> February, 2019

Organised by

Department of Instrumentation and USIC  
Gauhati University



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### **Co-ordinator**

**Dr. Debashis Saikia**

*Develop skill to earn and make fun*

### **Background:**

In the present world, all types of electronic equipments are becoming smart / intelligent i.e. each of them do possess some sort of inherent processing and storage capabilities. Smartness to these devices are provided by embedding several types of Microcontrollers.

At present there is a very high demand of embedded system designer. If the students at their undergraduate level become familiar with these topics there will be possibilities to emerge better embedded system designer from the group.

*Participants will be encouraged to do their end semester project based on Microcontroller.*

### **Objectives**

1. Familiarise with working of microprocessor and microcontroller
2. Writing code for microcontroller in C and programming a microcontroller
3. Exposure to the concept of Embedded System
4. Design and fabrication of signal conditioning circuits for sensing and data acquisition

### **Target groups**

The target group for the workshop will be the fifth semester appeared students of TDC with major in Physics, Electronics and Computer Science, end semester post graduate students and research scholars of Instrumentation, Physics, Electronics and Computer Science.

### **Workshop Coverage**

The course will cover the following topics from basic level.

- Architecture of Microprocessor & Microcontroller,
- Concept of Data Acquisition System
- Idea of Signal Conditioning
- Project work on Microcontroller based Data Acquisition System.

The lectures will be followed by hands on both analog and digital electronics.

Registration Fee: ₹500.00  
*The registration fee will be refunded to few participants based on their performance during the school*

### **Dr. Debashis Saikia**

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### **ALL CANDIDATES MUST APPLY ONLINE**

1. Starting Date of applying: **01.01.2019**
2. Closing Date of applying: **08.02.2019**
3. Publication of Selection List: **12.02.2019**
4. Date of registration: **18.02.2019**

### **ONLINE APPLICATION LINK**

<https://goo.gl/forms/SPBmZCDKet9KjwMF2>