

# Sixth School on System Design Using Microcontroller

Duration: One Week from 25<sup>th</sup> June, 2018

Organised by

Department of Instrumentation and USIC  
Gauhati University



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### Co-ordinator

Dr. Debashis Saikia

*Develop skill to make fun and earn*

### 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 fourth/sixth 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

Dept. of Instrumentation and USIC  
Gauhati University  
GNB Nagar  
Guwahati-781014

Phone:+91-9864753866, +91-9531267275

e-Mail: workshopesmicro@gmail.com

### Important Dates:

1. Last date of application in prescribed forms: **20.06.2018**
2. Date of publication of selection list: **22.06.2018**
3. Date of registration: **25.06.2018**



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## Application Form for Post Graduate Students

1. Name:
2. Date of Birth:
3. Name of the Institute:
4. Address for Communication:
5. Phone No.:
6. E Mail ID:
7. Major Subject:
8. Marks in Percentage/ Grade Obtained\*:

Sem I	Sem II	Sem III	Total

Signature of the Applicant

### Recommendation from the Head of the Department

\_\_\_\_\_ is hereby recommended as a candidate for participation in the "Sixth School on System Design Using Microcontroller", organized by Dept. of Instrumentation and USIC, Gauhati University, Guwahati-14 from 25.06.2018.

Signature  
Head of the Department  
(with date and office seal)



# Sixth School on System Design Using Microcontroller

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## Application Form for Research Scholars

1. Name:
2. Date of Birth:
3. Name of the Institute:
4. Address for Communication:
5. Phone No.:
6. E Mail ID:
7. Major Subject:
8. Name of the Supervisor and Field of Research:  
*(A recommendation letter from supervisor should be enclosed)*

Signature of the Applicant

### Recommendation from the Head of the Department

\_\_\_\_\_ is hereby recommended as a candidate for participation in the "Sixth School on System Design Using Microcontroller", organized by Dept. of Instrumentation and USIC, Gauhati University, Guwahati-14 from 25.06.2018.

Signature  
Head of the Department  
(with date and office seal)



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Gauhati University

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## Application Form for Under Graduate Students

1. Name:
2. Date of Birth:
3. Name of the Institute:
4. Address for Communication:
5. Phone No.:
6. E Mail ID:
7. Major Subject:
8. Marks in Percentage/ Grade Obtained:

Sem I (Major)	Sem II (Major)	Sem III (Major)	Sem IV (Major)	Sem V (Major)	Total

Signature of the Applicant

### **Recommendation from the Head of the Department**

\_\_\_\_\_ is hereby recommended as a candidate for participation in the "Sixth School on System Design Using Microcontroller", organized by Dept. of Instrumentation and USIC, Gauhati University, Guwahati-14 from 25.06.2018.

Signature  
Head of the Department  
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