

## OBJECTIVES OF THE COURSE

In the current World, all types of Electronic Gadgets are becoming Smart / Intelligent, i.e., each of them do possess some sort of inherent processing and storage capabilities. Several types of Microcontrollers/microprocessors embedded into these so called Smart Devices are providing this Smartness. This course aims at introducing the Participants to some of the current popular Microcontrollers and microprocessors viz., 8051, Intel Galileo & Arduino and their usage with extensive hands on exposure.

## ABOUT THE ORGANISER

Assam Engineering College, established in the year 1955 by the Government of Assam, was inaugurated by Pandit Jawaharlal Nehru. It was the first engineering institute of the entire North-Eastern part of India, started with the view to produce skilled technical personnel for implementation of national schemes. Over the years, it has not only fulfilled its responsibility of imparting quality education and bringing forth technical expertise but also fulfilled the greater cause of serving the society. Today, it is a premier technical institute and a hub of academic and supplementary activities in the region.

## COURSE CONTENTS

### Theory

- Fundamentals of 8051, Intel Galileo & Arduino
- Architecture and Instruction set.
- Programming techniques in Assembly Language/ Embedded C.
- I/O Interfacing techniques of various real life projects.
- Embedded systems

### Hands on

- Simulation and Execution on Bread-board of an Assembly source code/ Embedded C.
- Execution of real life projects on Bread-board.
- Demonstration on Development board

## RESOURCE PERSONS

Experienced and skilled faculty members from Assam Engineering College and experts from leading institutions like IITG /TU /ADBU as well as from the Industries will deliver lectures, will participate in interactive programmes and will conduct hand on practical sessions.

## APPLICATION PROCEDURE

Applications are invited from the faculty members of Engineering Colleges and practicing engineers from industries/ R&D institutions for participation in the one Week AICTE sponsored Short Term Course under NEQIP. The application form is available in the Website of Assam Engineering College: [www.aec.ac.in](http://www.aec.ac.in) Applicants may also apply on plain paper indicating Name, Designation, Institution, Residential & Mailing address (postal & e-mail) Phone & Fax number, Qualification, Experience (total) with date of joining to a substantive post, duly forwarded by the Head of the Institution should reach 10 days before the commencement of the specified short term course.

## ADDRESS FOR CORRESPONDENCE

### Prof. Apurba Kumar Kalita

HOD & Associate Professor  
Electronics & Telecommunication Engineering Department  
Assam Engineering College, Jalukbari  
Guwahati-781013.

E-mail : [a\\_kalita@rediffmail.com](mailto:a_kalita@rediffmail.com)

Mobile Phone: 097060-74262

OR,

### Ms. Rashi Borgohain

Assistant Professor  
Electronics & Telecommunication Engineering Department  
Assam Engineering College, Jalukbari  
Guwahati-781013.

E-mail : [rashi.ete@aec.ac.in](mailto:rashi.ete@aec.ac.in)

Mobile Phone: 098540-78570

**Last date for submission of application is 5.1.2016**

## Registration Form

Short Term Course On:  
**Microcontrollers &  
Embedded Systems**

Paste a  
Stamp Size  
Self  
Photograph

Name .....

Designation.....

Institution .....

Mailing Address: .....

.....

Residential Address.....

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E-mail .....

Phone No.:.....

Highest Academic Qualification.....

Experience:

a) Teaching \_\_\_\_\_ Yrs

b) Industries / Research \_\_\_\_\_ Yrs.

Date of joining of the present service  
Area of Research  
Interest:.....

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UGC/AICTE/TEQIP course last attended:

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Signature of the Applicant:

Signature & Seal of the Head of the Institution

Date:

## ELIGIBILITY

This short term course is open to both institutional faculty members and practicing Engineers from industrial and business houses. Full time faculty members of AICTE / UGC approved colleges/polytechnics and universities of North-eastern India involved in teaching and researches in ECE, CSE, EE, EEE are eligible for attending the short term course.

## COURSE FEE AND ACCOMODATION

There is no course fee for full time teaching faculties from AICTE approved colleges. However, for the participants from Industrial/Business enterprises, a non-refundable registration fee of Rs.3000/- is to be sent through DD/Bankers Cheque in favour of 'PRINCIPAL, AEC' along with the application form. The draft will be refunded if the applicant is not selected in the course. The selected candidate will be informed 20 days before the commencement of the course.

TA/DA is not entitled to attend this ST course. Few accommodations are available in college guest house. Outstation participants are advised to arrange for their own accommodation.

## COURSE COORDINATORS

Prof. Apurba Kumar Kalita  
Ms. Rashi Borgohain

## NEQIP-AEC COORDINATOR

Dr. S.K.Deb, Professor, M.E. Department  
Assam Engineering College, Guwahati.

**One week Short Term Course**  
**(19.1.16 to 23.1.16)**

*Under*

**NEQIP (AICTE)**

*On*

**Microcontrollers &  
Embedded Systems**

*Organised By*

**Electronics & Telecommunication  
Engineering Department  
In association with  
Computer Science & Engineering  
Department  
Assam Engineering College  
Guwahati-781013**



**ASSAM ENGINEERING COLLEGE  
JALUKBARI, GUWAHATI  
ASSAM. Pin - 781013**