



GUJARAT TECHNOLOGICAL UNIVERSITY

(Established Under Gujarat Act. No.:20 of 2007)

Date: 15-10-2018

CIRCULAR

Interested faculty members and students may register for the following webinar which is going to be held on Wed, Oct 17, 2018 4:30 PM - 5:30 PM IST.

Virtual Academy: "Embedded Systems – A Industry Perspective"

Wed, Oct 17, 2018 4:30 PM - 5:30 PM IST

Registration URL: <https://attendee.gotowebinar.com/register/1314052029231512577>

Description:

Microcontroller (MCU) based Embedded Systems have become ubiquitous in modern electronic equipment. Once found solely in industrial electronic systems, MCUs have made inroads into consumer electronic equipment as well. In the current scenario, it is imperative for aspiring electrical engineers to have a sound understanding of MCU architecture, capabilities and applications. This seminar gives a good overview of Embedded Systems from the perspective of an engineer who has spent over 3 decades in the industry. Topics include:

- Choosing a MCU: Deals with the different parameters to be reckoned with while choosing a microcontroller for a given application. Example parameters include clock-speed, Number of cores, Safety requirements, Redundancy, Peripheral mix and Packaging.
- Designing with MCU: Deals with the design aspects of embedded systems. Topics include Interpreting datasheet parameters, Robust design practices, Designing for Electromagnetic compatibility etc.
- Debugging Embedded Systems: Deals with the debug aspect of embedded systems. This includes some “tales from the trenches”. The perils of Over-engineering & Excessive Hardware Abstraction are also discussed.

Presenter:

J. Hareesh
MCU Applications Engineer at Texas Instruments
Houston, Texas
USA

Sd/-
Registrar (I/c)