Program Details: Hands on Training on, **"Embedded System Design using MSP430 & Tiva Series Launch pads & booster packs"**

Date of the Program: 08-09 March 2017

Organizing Department: Electronics and Communication Engineering

REPORT

The event started sharp at 10.00 AM in Embedded Lab (Room No. 303) by Mr. P. Madhu Kumar, Asst. Prof (SL) of the department addressing the participants about the importance of the Program. The participants for the lab training session were 08 PG students from M. Tech (DECS) and 20 students of III B. Tech ECE. Resource Person Mr. Ganesh Motte, Product Engineer, EdGate Technologies PVT. LTD., Bangalore took over the session.

08-03-2017 (FN):

Introduction to MSP430 family of processors from TI, Features of MSP430, on-chip resources available in MSP430, Eclipse IDE, Installation and usage of Code Composer Studio Version 6, Energia were covered

08-03-2017 (AN):

Hands on training for programming MSP430G2559/G2553 using CCSV6 & Energia for various tasks like blinking LEDs, Reading switches, Parallel I/O port access, WDT, Timers, Interrupt programming exercises were practiced.

09-03-2017 (FN):

Resource person discussed various communication standards like SPI, UART, I2C, JTAG and various embedded C programming abilities necessary for embedded workload modeling . He also covered Operating System related issues and their usage on this platform in real time systems.
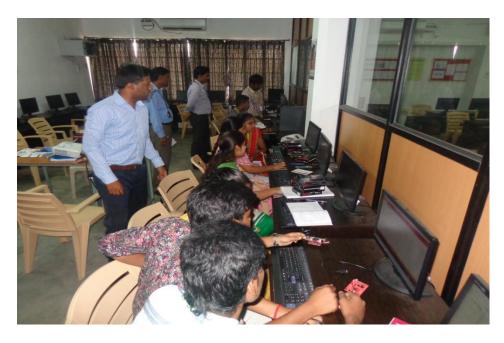
09-03-2017 (AN):

Participants practiced embedded programming using various booster packs like WIFI, Sensor Hub, Sharp LCD –features and usage with MSP430, Tiva C series launch pads. Real time mixed signal processing related discussion happened in this session.

The program concluded by taking feedback from the participants with query clarification session regarding projects that can be undertaken by the students.

The snapshots covering various phases of the event are:

Resource Person discussing practical aspects in using various on-chip resources available for MSP430G2559

Hands on Training using MSP430G2559 on-chip Resources

Demonstration by resource person on Educational booster pack using Energia

Students demonstration establishment of communication between MSP430F5529 Modules using SPI standard

Convener