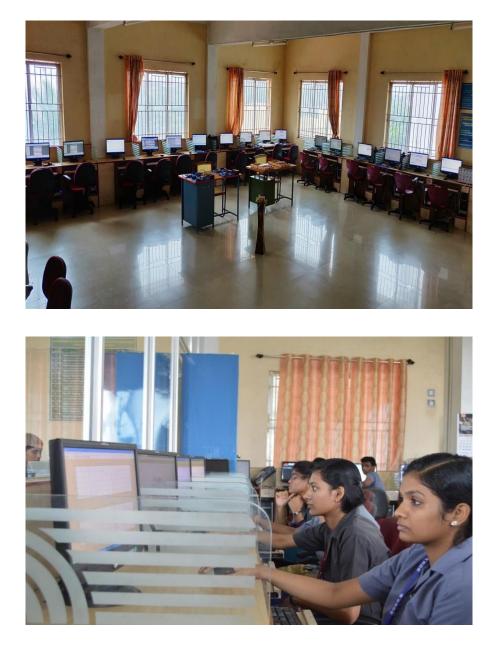


EMBEDDED LABORATORY

Laboratory In- charge: Mr. R. Balamurugan AP/ECE Technical supporting staff: Ms. A. Ramya Krishnan



Snapshot of Embedded Laboratory Area of the laboratory: 97.36 Sq.m





Major Equipment:

- IAR Embedded Workbench for 8051
- Zigbee Learning Kit-I
- Z-Debugger,USB Dongle, Sensor Modules
- ARM Cortex M3 Board
- 16Channel 8-bit ADC Interface and Dual DAC Interface
- Calculator type keyboard interface
- I2C(Inter Integrated Circuit) Interface and Real Time Clock Interface
- Stepper Motor Interface with Stepper Motor & Power Adapter
- TXTR Interface using PT100 with ADC
- Wireless Interface and Zigbee
- Debugger cum Programmer
- QUANTA Battery and Fixed Power Supply

List of Experiments:

- Study of ARM evaluation system
- Interfacing ADC and DAC, LED and PWM
- Interfacing real time clock and serial port.
- Interfacing keyboard and LCD
- Interfacing EPROM and interrupt
- Study of Mailbox and Interrupt performance characteristics of ARM and FPGA
- Flashing of LEDS
- Interfacing stepper motor and temperature sensor.
- Implementing zigbee protocol with ARM

Beyond the syllabus experiments:

- Signal Generation using Arduino
- Sensors Activation using Arduino

Utilization of the laboratory:

• Embedded Laboratory for IV year ECE/VIII sem