



## Department of Electronics and Communication Engineering

### DSP, VLSI and Microcontrollers Lab Room No. AB 208

- **Staff In-Charge :**

**VLSI Lab**

**: Dr. S B Rudraswamy**

Assistant Professor

**: Prof. Halesh M R**

Assistant Professor

**DSP Lab**

**: Prof B A Sujathakumari**

Associate Professor

**Dr. Shashidhar R**

Assistant Professor

**Microcontrollers Lab**

**Prof. Pavithra D R**

Assistant Professor

**Prof. Rohith M N**

Assistant Professor

- **Technical / Supporting Staff : Poornima M**

Instructor

**Mahadevaswamy N**

Instructor

**Umashankar**

Helper

- **Facilities Available :**

1. PCs with i7-8700 CPU @ 3.20GHz , 8 GB RAM
2. MS Windows and GNU Linux OS.
3. Computers connected to internet and campus-wide LAN or wifi.
4. Software- Cadence, Keil, Filp, C, C++,Matlab, Xilinx, C/C++ Compilers.
5. HDL Trainer Kits, Microcontroller kits and DSP trainer kits .

- **Utilization :**

This lab is equipped with 50 computers. It provides more opportunities to students. This lab complements the course VLSI Circuit design and VHDL and Verilog Programming. The laboratory provides details about basic CMOS analog integrated Circuit Design, simulation and testing techniques. The students are exposed to solve more industry complex digital circuits.

This laboratory also familiarizes the students with software and hardware aspects of the 8051 and ARM microcontrollers and provides skills of programming methodology using embedded C .They will also learn about interfacing various hardware to understand the practical applications.

The students also focus on implementing different signal processing algorithms on computers as well as DSP boards. The lab has MATLAB software installed and trains the students in using this powerful computer application in various aspects of engineering.

Totally this lab focuses on improving programming skills of Electronics Students.

