

Department of Electronics and Communication Engineering

Shri Jayachamarajendra college of Engineering, Mysuru-570006

DSP, VLSI and Microcontrollers Lab

● **Staff In-Charge :**

VLSI Lab

: Dr B S Rudraswamy

Assistant Professor

: Prof.Halesh MR

Assistant Professor

DSP Lab

: Prof B A Sujatha Kumari

Associate Professor

Prof. Shashidhar R

Assistant Professor

Microcontrollers Lab

Dr. Shankaraiah

Professor

Prof. B S Renuka

Associate Professor

● **Technical / Supporting Staff : Umashankar**

Lab Helper

Poornima

Instructor

● **Facilities Available :**

1. Standard PCs meeting specifications to support modern application softwares.
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, Verilog, VHDL,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 skill of Electronics Students.