



K. S. INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Name of the Lab : Analog and Digital Electronics Laboratory/
Microcontrollers and Embedded Systems
Laboratory

Location : 4th Floor (OB-406A)

Name of the Lab In-charge : Mrs. Usha C R

Name of the Instructor : Mrs. Lakshmi K M

Lab Details:

Sl.NO	NAME OF THE LAB	SEM	NO. OF STUDENTS PER BATCH	LAB UTILIZATION PER WEEK
1	Analog and Digital electronics Laboratory	Odd III, V,VII. Even IV,VI,VIII.	35	24 Hrs

Major Equipments in the Laboratory:

Sl.NO	Name	Quantity
1	Computers	35
2	Trainer Kits	15
3	Oscilloscope	15
4	Oscilloscope	5
5	Function Generator	7
6	Regulated power supply	11
8	Embedded Microcontroller kits(Arm 7 Kits)	20
9	Universal IC Tester	1



Software used

Sl.no	Name
1	PSPICE 9.1
2	XLINX 7.1
3	KEIL
4	uVISION 4
5	Windows 8

Description:

This lab has a total area of 108 sq m. It is utilized by 3rd, 4th, 5th, 6th, 7th and 8th semester students for learning concepts during the Odd/Even semester of the academic calendar. During the Odd Semester the lab is used by the 3rd Semester Students for Analog And Digital Electronics, Ability enhancement, Operating system lab, and for fifth semester Computer networks lab. Even semester the lab is used by 4th, 6th and 8th semester students to understand concepts of Microcontroller and Embedded Systems.

Ambiance: This lab has projector for aid of presentations and program logic explanations. It is provided with uninterrupted power supply with aid of UPS capacity of 30KVA. White/black board, Notice boards, Display boards, Instruction Boards (Do's and Don'ts), Experiment charts, Lab programs lists, Lab Layouts, Vision and Mission board, PEO and PSO board are displayed in laboratory. Laboratory manuals are maintained for reference. The lab also contains Shoe Racks and Bag Racks for student convenience.

Safety: General Rules of Conduct in Laboratories are displayed. Electrical maintenance such as electrical ports, switches, network cables, lights and fans are serviced. Any failure in components is timely serviced. **e-Waste** is periodically handed over to "E-Parisaraa PvtLtd", which is a government authorized electronic waste recycler. Safety aids available in the laboratory are

- First aid box