

**B. V. V. Sangha's**  
**Basaveshwar Engineering College (Autonomous), Bagalkot**  
**Department of Electronics and Instrumentation Engineering**

**INFRASTRUCTURE AND FACILITY**

### **1. Department Laboratory Details**

The department infrastructure is well established and some of the specific laboratories in this department are:

- Process Instrumentation and Control Laboratory
- Instrumentation Laboratory
- Microcontroller Laboratory
- Digital Electronics Laboratory
- Analog Electronics Laboratory
- Data Acquisition Laboratory
- Control System Laboratory
- Simulation Laboratory
- Virtual Instrumentation Laboratory
- DSP Laboratory

### **2. Hardware/Software facilities available in the department:**

- Computer Center with adequate number of systems, printing and scanning facilities.
- Licensed software: Window7, MATLAB/Simulink, LabVIEW, MS Office, DASyLab, MP Lab, VersaPro-PLC ladder diagram software, Code Composer for DSP Kits, MAXPLUS II Student's version.
- Computerized process stations for flow, temperature, pressure and level control

- Departmental library “SARASWAT” has more than 500 volumes and 200 titles with sufficient space and refurbishments to provide good learning atmosphere for our students to gain knowledge. Every year new titles and more volumes are added to the library. This is apart from the volumes and titles available in the college central library.
- RO Drinking water facility
- 23 point GE Fanuc PLCs and Omron PLCs with several trainer modules such as coolant filling control, elevator control, conveyor control.
- PIC 16F877 & 8051 kits with several interfacing modules.
- TMS320VC5416 DSP trainer kits.
- Printed circuit board design and development Unit. Data acquisition system laboratory with both DASyLab and LABView software and 16/32 channel data acquisition and logger modules.

### 3. Major equipment and details of laboratories

SI No	Name of the Laboratory	Total Area sq mts
01	Instrumentation Lab	91.44
02	Process Control Systems lab Data Converters & Control Systems lab	73.14
	Microcontroller Lab	106.68
04	DSP Lab	106.68
05	Microprocessor Lab	106.68
06	Power Electronics Lab	73.14
07	Analog Electronics Lab Digital Electronics Lab	73.14
08	Laser Lab	73.14
09	PDT Lab	106.68