
Adequate and well-equipped laboratories to run all program specific curriculums

The department of Computer Science and Engineering (CS & E) has well equipped laboratories. The department has **ten** laboratories. Each laboratory has high end computers (Core 2 Duo to i7 Processors) with a speed of 200 Mbps internet facility. The laboratories have the computers with student computer ratio of 1:1. All the computers are connected through the LAN using Gigabyte manageable switches with CAT –VI cables. The department laboratories have connected to Blade Server and which can be used as file server to share the software resources. The workstations are also installed in laboratory to process the practical work effectively. All laboratories have adequate space with well equipped and furnished. The furniture is well designed with good ergonomics. The main laboratories are installed with Projectors which can be used for hands-on training for different events. Smart board and white board facilities are also available in the laboratory which makes more interactive lab sessions during practical works.

All the laboratories have 24x7 power backups with UPS systems and power generator. The laboratories are provided with grid false roofing. Adequate number of printers is also available for the students and staff to use. The internal premises of the laboratory has well displayed with necessary charts, algorithmic diagram, question banks, instructional guidelines etc. Well safety measures are also taken care in the laboratories.

As per the curriculum requirement the laboratories have adequate number of licensed and open source software's (Ubuntu). The institute has campus signed Microsoft license and office tools. The laboratories are also have software like Mysql, Cisco Packet Tracer, Visual studio Package, Java (JDK 13.02), Anaconda, Turbo C & C++ and many more software packages.

The laboratories of CS & E department have well qualified technical and supporting staff as per AICTE/VTU norms. The technical staff along with lab faculty in-charge has the role of delivering practical course content to the students.

.

Sl. No.	Name of the Laboratory	No. of Students Per Setup (Batch Size)	Name of The Important Equipments
1	Dennis Ritchie Lab 1(A) & 1(B)	1 student per system (20 students)	Hp 280 G2MT Intel core i3-6100 CPU @3.70 GHz, 4GB RAM, 1TB HDD, Win-10 Pro. Turbo C & C++, Anaconda 3, Cisco Packet Tracer (V 5.3), Java (JDK 13.02)
2.	Vinod Dham Lab 1(A) & 1(B)	1 student per system (24 students)	ACER & HP-Intel core Duo, 1GB RAM , 160GB HDD Systems, Modules (for micro processor programs) like Elevator, keypad, stepper motor, 7-segment display etc., D-Link DGS-3620, Managed Layer 3 Core switch, LAN connectivity, Masm-5.0, Turbo 2C++, Cisco Packet Tracer (V 5.3), Ubuntu, Java (JDK 6.0)

3.	Brahmagupta Lab.	1 student per system (12 students)	HP Pro 3330MT, Intel Core i5 CPU @3.20GHz, 4GB RAM, 500GB HDD, LAN connectivity, Turbo C & C++, Anaconda 3, Cisco Packet Tracer v 5.3, Java (JDK 13.02)
4.	David Pearson Lab.	1 student per system (12 Students)	HP Intel Pentium i3, @.3GHz, 500GB HDD,4GB RAM 500GB HDD, LAN connectivity, Turbo C & C++, Anaconda 3,Cisco Packet Tracer v 5.3, Java (JDK 13.02)
5.	Ray Noorda Lab.	1 student per system (12 Students)	HP Compaq 6000 Pro SSF PC Intel Core 2 Duo CPU @ 3 GHz, 4GB RAM, 300GB HDD, LAN connectivity, Turbo C & C++, Cisco Packet Tracer v 5.3,
6.	Marcian Hoff Lab.	1 student per system (12 Students)	HP Pro 3330 MT Intel core i5, 4GB RAM, 500GB HDD Systems, Trainer Kits, LAN connectivity, Turbo 2C++, Xilinx 8.1
7.	Innovation Lab.	1 student per system (12 Students)	HP Compaq 6000 Pro SSF PC Intel Core 2 Duo CPU @ 3 GHz, 4GB RAM, 300GB HDD, LAN connectivity, Turbo 2C++, Cisco Packet Tracer v 5.3,

8.	Centre of Excellence Cloud Computing	1 student per system (12 Students) Research Scholars	HP Pro 3330 MT Intel core i5, 4GB RAM, 500GB HDD Systems, Aneka software, Vm Ware, Hadoop, LAN connectivity, Turbo C & C++, Cisco Packet Tracer v 5.3,
9.	Tim Berners-Lee lab.	1 student per system (10 Students)	ACER & HP-Intel core Duo, 1GB RAM , 160GB HDD Systems, LAN connectivity, Turbo C & C++
10.	Internet of Things (IOT) Lab.	1 student per system (20 Students) Research Scholars	Work station, Intel Core i7-7700 Processor 3.60 GHz 2400MHz Windows 10 Pro 64, 1 TB HDD Graphics:NVIDIA Quadro P400 GB DDR5, DVD-RW 16 GB PC4-2400 DDR4 RAM UDIMM 2400 MHz , LAN connectivity, Turbo C & C++, Cisco Packet Tracer v 5.3,Java (JDK 13.02), Anaconda
11	Data Science Lab	1 student per system (10 Students)	Work station, Intel Core i7-7700 Processor 3.60 GHz 2400MHz Windows 10 Pro 64, 1 TB HDD Graphics:NVIDIA Quadro P400 GB DDR5, DVD-RW 16 GB PC4-2400 DDR4 RAM UDIMM 2400 MHz , LAN connectivity, Turbo C & C++, Cisco Packet Tracer v 5.3,Java (JDK 13.02), Anaconda
