KLS GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI

SKILL LAB ON

Computer Hardware and Networking

Department of Computer Science & Engineering

Overview

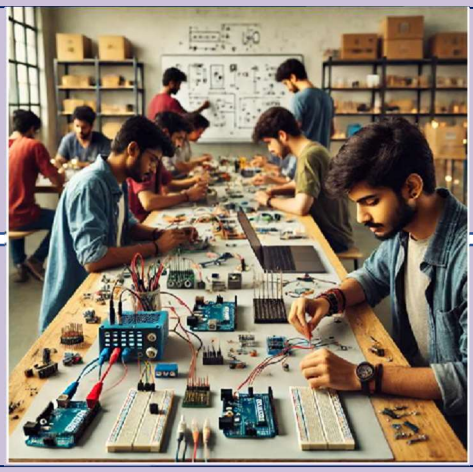
A **Computer Hardware and Networking Skill Lab** is an essential facility for students and professionals to gain hands-on experience with the foundational components of computing and communication systems. The lab focuses on training individuals in the assembly, maintenance, troubleshooting, and networking of computers and related devices.

Mode of Conduction: Offline

Theory: 10 Hours,
Demo: 10 Hours,
Lab Sessions: 16 Hours
Total duration: 36 Hours
Certification exam: 01 Hour

Module 1: Introduction to basic computer hardware

Name and identify various PC hardware components: USB, Mouse, PS/2 Mouse, Keyboard, LCD/LED Monitor, VGA, HDMI, CAT5, CAT6, server, routers, fiber cable, Hard disk, RAM, CMOS battery, SMPS, cache, ROM,



Module 3: To install different operating systems with dual boot

Controlling actuators, Basic Communication Interfaces, Projects.

Module 2: To assemble and disassemble computer hardware

Assembling and disassemble of computer with various parts of computer hardware

Module 4: Introduction to computer networks and its components

Network Hubs (4/8 Ports), CAT6 network toolkit, connect 2-4 computers using network to create LAN.

Terms and Conditions

- Students who have paid a skill lab fee to the institution are eligible for training.
- The students must maintain 90% attendance for obtaining the skill lab certificate.
- Students must attend training

Acceptance

In order to be accepted and start the training program, students are required to register with the respective department. Details to be provided by the student to the department include: Name, USN, UID, Mobile No, Email id

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Outcomes

Ability to identify, assemble, and troubleshoot key computer components effectively.

Mastery in installing, configuring, and optimizing various operating systems while resolving related issues.

Hands-on experience in network design and troubleshooting, preparing for roles in IT and networking.

Carrer Prospects: Network Engineer, System Administrator, IT Support Technician, Cybersecurity Analyst, Cloud Solutions Architect,