

KARNATAK LAW SOCIETY'S  
**GOGTE INSTITUTE OF TECHNOLOGY**

UDYAMBAG, BELAGAVI-590008

(An Autonomous Institution under Visvesvaraya Technological University, Belagavi)

(APPROVED BY AICTE, NEW DELHI)



## **Computer Hardware and Networking**

**FOR**

**III Semester Information Science and Engineering Students**

**DEPARTMENT OF**  
**Information Science and Engineering**  
**KLS GOGTE INSTITUTE OF TECHNOLOGY**



**Computer Hardware and Networking**

**FOR**

**Students of III Semester**

## Overview

Students shall apply the skills learnt in this Skill Lab. They will be learning the procedures to install, configure, and troubleshoot computers, installation of operating systems and soft wares. Learn the fundamentals of connecting computers to networks.

## Mode of Conduction of each Module

Theory: 02 Hours  
Demo: 01 Hours  
Lab sessions: 03 Hours  
Total duration: 06 Hours  
Certification exam: 02 Hours

## Module 1: Fundamentals of Computers      Module 2: O.S. Installation and Configuration.

Basics of PC, Laptops & Components Introduction to PC Hardware: PC Components, Memory, Adapter cards and extension slots, Hard disk drives cables and adapters, Input devices and output devices. Computer disassembly & Assembly, Preventive maintenance and trouble shooting. Advanced computer Hardware: Advanced computer Functionality ports, Configuration for specialized computers. Laptops and other Mobile Devices: Laptop hardware and component installation and configuration, Preventive Maintenance and troubleshooting process.

Basics of OS with Installations & Configurations Windows Installation & Upgrades, Disk Management (storage device types, Hard drive partitioning, Partitions and logical drives), Windows Configuration - Configure Windows with Control Panels, System Administration.

## Module 3: Name

Module 2: O.S. Installation and Configuration  
  
Basics of OS with Installations & Configurations Windows Installation & Upgrades, Disk Management (storage device types, Hard drive partitioning, Partitions and logical drives), Windows Configuration -

## Module 4: Name

Module 4: Linux  
  
Linux fundamentals, linux system commands

## Coordinators

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## Outcomes

- The ability to design, install, and maintain computer systems and networks.
- Prepares individuals for careers like network administrators and IT technicians by teaching hardware management, network configuration, and cybersecurity essentials.
- Ensuring smooth technological operations in organizations.

## **Acceptance**

In order to accept 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**

## **Terms and Conditions**

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