# K S INSTITUTE OF TECHNOLOGY

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**Name of the Lab**      :   Data Structures Laboratory/

Design and Analysis of Algorithm Laboratory /

System Software & Operating System Laboratory

**Location**      :   3rd Floor OB- 301

**Name of the Lab In-charge**    :   Dr.Vijayalakshmi Mekali

**Name of the Instructor**      :   Geetha T

### Lab Details:

| Sl.NO | NAME OF THE LAB | SEM | No. of Students per Batch | Lab Utilization per week | Lab Manual Link |
|---|---|---|---|---|---|
| 1 | Data Structures Laboratory/ Design And Analysis Of Algorithm Laboratory / System Software & Operating System Laboratory | III,IV | 23 | 18 Hours-2018 Scheme 12 Hours-2021 Scheme (IPCC) | https://drive.google.com/file/d/1BEtNRF07qyCSv9GeOO5xAjTJgUz08EK4/view?usp=sharing |

### Major Equipments in the Laboratory:

| Sl.NO | Name | Specification | Quantity |
|---|---|---|---|
| 1 | HP-INTEL® CORE™ | Core 2 DUO PROCESSOR Hard Disk -160GB RAM -2 GB | 24 |
| 2 | Lenovo Computers | 2Processor -Core i5 Hard Disk -320 GB RAM -4 GB | 2 |
| 3 | HP Computers | Processor -Core i5 Hard Disk -500GB RAM- 4 GB | 2 |
| 4 | Projector | Epson EB-S41 | 1 |
| 5 | Printer | HP | 1 |

**SOFTWARE USED:**
Ubuntu 16.04 OS 64 bit, Code blocks IDE version 13.12, Eclipse version 3.8.

**DESCRIPTION:**

This lab has a **total area of 83 sq. m**. It is utilized by $3^{rd}$ semester students for leaningconcepts of data structure and programming during the Odd semester of the academic calendar. During Even semester the lab is used by $4^{th}$ semester students to understanddesign and analysis of different algorithms, along with $6^{th}$ semester students to learn system software and operating 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 20KVA. White/black board, Notice boards, Display boards, Instruction Boards (Do's and Dont's), 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 Pvt Ltd", which is a government authorized electronic waste recycler. Safety aids availablein the laboratory are

- Firewall

- First aid box

- Fire extinguisher