

## Department of Computer Science & Engineering

### LAB Detail

#### Computer Programming LAB:



To introduce students to the basic knowledge of **programming** fundamentals of different programming languages like C, Python, and Java etc. as well as advanced programming concepts required for cutting edge programming needs towards Machine Learning, Deep Learning, Big Data, Artificial Intelligence etc

#### Computer Workshop:



The modules include training on PC Hardware, Internet, World Wide Web and Productivity tools including Word, Excel, PowerPoint and Publisher. PC Hardware ,the process of assembling a PC, installation of System Software MS-Windows, Linux and the required device drivers.

### **Data Structure LAB:**



To revise the useful concept of programming prerequisite which will be useful for future lessons. Structures, union, pointers, 1D array etc. are covered in this lab. Program are complete in best of knowledge with zero compilation error in IDE Dev ++.

### **OS LAB:**



The goal of this course is to have students understand and appreciate the principles in the design and implementation of operating systems software.

#### **DBMS LAB:**



To understand the different issues involved in the design and implementation of a database system .To understand and use data definition language to write query for a database. Oracle has many tools such as SQL \* PLUS, Oracle Forms, Oracle Report Writer, Oracle Graphics etc.

#### **JAVA LAB:**



A Java Programming lab is intended to provide a basic knowledge of java programming for students. To develop software development skills in java programming and Students will have the proficiency to develop projects in java programming. The course helps the students to solve the inter disciplinary applications through java programming.

**MOS LAB :**



Modeling is a way to create a virtual representation of a real-world system that includes software and hardware.

Simulation is used to evaluate a new design, diagnose problems with an existing design, and test a system under conditions that are hard to reproduce in an actual system.

**COMPUTER NETWORK LAB :**



In Computer networks lab, students diagnose various protocol message details like TCP/UDP using Wireshark. NetSim is used to simulate the features of IP routing, transport layer flow and congestion control. In network programming, students develop programs to understand the client server model.

**COMPUTER GRAPHICS LAB :**



This lab including digital images, animations, and interactive graphics used in various sectors such as entertainment, education , scientific visualization and virtual reality.

**CLOUD COMPUTING LAB :**



Cloud computing is the on-demand access of computing resources—physical servers or virtual servers, data storage, networking capabilities, application development tools, software, AI-powered analytic tools and more—over the internet with pay-per-use pricing.

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