

**DEPARTMENT WISE EQUIPMENT DETAILS****COMPUTER SCIENCE AND ENGINEERING**

Sr. No.	Name of the Department	Total No. of Labs
1	COMPUTER SCIENCE AND ENGINEERING	07

Sr. No.	Name of the Laboratory	Labs Location
1	DATABASE ENGINEERING	A-406
2	PROGRAMMING LAB-II	A-409
3	COMPUTER CENTER	A-411 A
4	HARDWARE AND NETWORKING LAB	A-413
5	PROGRAMMING LAB-I	A-414
6	OPEN SOURCE LAB	A-415
7	PROJECT LAB	A-416



LAB 1: ROOM NO: A- 406

LAB NAME: DATABASE ENGINEERING



Objectives: The main objective of this lab is to provide a strong formal foundation of database concepts from practical usage of the same to help participants/students to groom them into well informed database application developers.

Strength: A relational database stores the data in the form of relations defined by tables organized by row and columns. Reading and writing to a table is always easy to read and write and that is one of the main strength of a database.

Software Available: -Windows 10 professional -Java (jdk1.8u172) -Turbo C++ -Visual Basics 6.0
Weka -Oracle 9i Client -Visual Studio 6u10 -Oracle server -MS Office 2013

SR. NO	ITEM NAME & SPECIFICATION	QTY
1	D-link Make 24 Port Switch	1
2	Computer System Desktop 7K 659PA- Intel I5 125006C 3.00 65W Processor, RAM 8 GB, HDD 1tb Sata, USB Keyboard and Mouse, 18.5" HP Monitor 64X 86AA 22" P22, Windows10 HOME 11	20

**LAB 2: ROOM NO: A-409****LAB NAME: PROGRAMMING LAB-II**

Objectives: To Perform all Advance Computing experiments

Strength: Lab is equipped with a highly configured system.

Software Available:

- 1) MS Office 2013
- 2) Android Studio Version 10
- 3) Java SE 11
- 4) Turbo C++
- 5) Python

SR. NO	ITEM NAME & SPECIFICATION	QTY
1	D-link Make 24 Port Switch	1
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**LAB 3: ROOM NO: A-411A****LAB NAME: COMPUTER CENTER**

Objectives: 1) To impart knowledge on operating systems.
2) To design principles of operating systems & implementation of the same.

Strength: Facilitate students with software to analyze complex algorithms.

SR. NO	ITEM NAME & SPECIFICATION	QTY
1	D-link Make 24 Port Switch	1
2	Dell Optiplex 3060 SFF Desktop, Intel Core i5-8400 Processor, 8GB DDR4 Ram, 1 TB Hard Disk, Dell Make USB Keyboard and Mouse, 18.5" Dell Make LCD Monitor, Windows10 HOME SL	37



LAB 4: ROOM NO: A-413

LAB NAME: HARDWARE AND NETWORKING LAB



Objectives: Make students well aware of Networking Hardware and communication

Software Available:

1. Cisco Packet Tracer
2. ContikiCooja
3. Wireshark
4. NMap
5. Jdk 6
6. Turbo C++
7. Microsoft Office 2013

SR. NO	ITEM NAME & SPECIFICATION	QTY
1	Dell Optiplex 7040 SFF Desktop, Intel Core i5-6500 Processor, 8GB DDR4 Ram, 500 GB Hard Disk, Dell Make USB Keyboard and Mouse, 18.5" Dell Make LCD Monitor, Windows 10 HOME SL	24
2	D-link Make 24 Port Switch	1

**LAB 5: ROOM NO: A-414****LAB NAME: PROGRAMMING LAB-I****Objectives:**

1. To provide suitable infrastructure for SW Development.
2. To Provide the Software Development Tools.
3. To provide Documentation Tools.

Strength:

1. High end latest machines with suitable configuration.
2. All required SWs and SW Tools for SW Development, and Documentation.

Software Available:

1. Adobe Acrobat Reader DC
2. Java SE Development kit (JDK1.8.0_121)
3. Star UML
4. MS Office Enterprise 2007.
5. Turbo C++ 6. Python 2.7

SR. NO	ITEM NAME & SPECIFICATION	QTY
1	D-link Make 24 Port Switch	1
2	Dell Optiplex 3060 SFF Desktop, Intel Core i5-8400 Processor, 8GB DDR4 Ram, 1 TB Hard Disk, Dell Make USB Keyboard and Mouse, 18.5" Dell Make LCD Monitor, Windows10 HOME SL,	20

**LAB 6: ROOM NO:A-415****LAB NAME: OPEN SOURCE LAB**

Objectives: Make students well aware of operating system concept & Linux operating system

Strength: Linux computers are tend to be more secure than their windows counterparts, with less susceptibility to viruses and malware

Software Available:

1. JDK-8
2. Turbo C++
3. Microsoft Office 2013
4. OS Simulator

SR. NO	ITEM NAME & SPECIFICATION	QTY
1	Dell Optiplex 7040 SFF Desktop, Intel Core i5-6500 Processor, 8GB DDR4 Ram, 500 GB Hard Disk, Dell Make USB Keyboard and Mouse, 18.5" Dell Make LCD Monitor, Windows 10 HOME SL	20
2	Digisol make 24 Port Switch	1

**LAB NAME: PROJECT LAB**

Objectives: The main objective of this lab is to provide a strong formal foundation of programming concepts from practical usage of the same to help participants/students to groom them into well-informed software developers and learning to analyze the software system. Computing and communication technology has had a significant impact on the engineering education system. This technology has improved online and collaborative learning. Besides that, it improves the students learning experiences.

Strength: The knowing programming language is today's need because any gadget or device is depend on its software part. Lab includes programming tools and languages so that student's foundations are stronger to face any real time challenges.

Software Available:

Operating Systems: Microsoft Windows 10 Professional (32bit)

1. Turbo C++ 4.0
2. jdk-6 Java
3. Python3.6, Python 3.7.3
4. Office Professional Plus 2013 and Office 2007

SR. NO	ITEM NAME & SPECIFICATION	QTY
1	Dell Make Vostro 3710 Desktop Systems, i5-12 Gen processor RAM 16GB, HDD 500 GB SSD, 19" Monitor, Win11 HSL, USB Keyboard and Mouse	25
2	Epson Make LCD Projector EB W05	1
3	Dell Make Laptop Inspiron 3501	3
4	D-link make 24 Port Switch	1
5	Dell make Laptop Latitude 3420, i5 Processor, 8 GB RAM, 512 GBB SSD, 14" Screen	2