

**DEPARTMENT WISE EQUIPMENT DETAILS****“ELECTRONICS AND COMPUTER ENGINEERING”**

Sr. No.	Name of the Department	Total No. of Labs
1	Electronics and Computer Engineering	04

Sr. No.	Name of the Laboratory	Labs Location
1	Programming Lab III	A-407
2	Programming Lab IV	A-312 A
3	Electronic Circuit Design Lab	A-311 A
4	Logic Circuit Design Lab	A-207

**LAB 1: ROOM NO: 407****LAB NAME: Programming Lab III**

Objectives: Programming Lab 3 is designed to provide students with practical exposure to programming concepts, software development, and problem-solving techniques. The lab helps students develop coding, debugging, and application development skills through hands-on practice in various programming languages and tools.

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

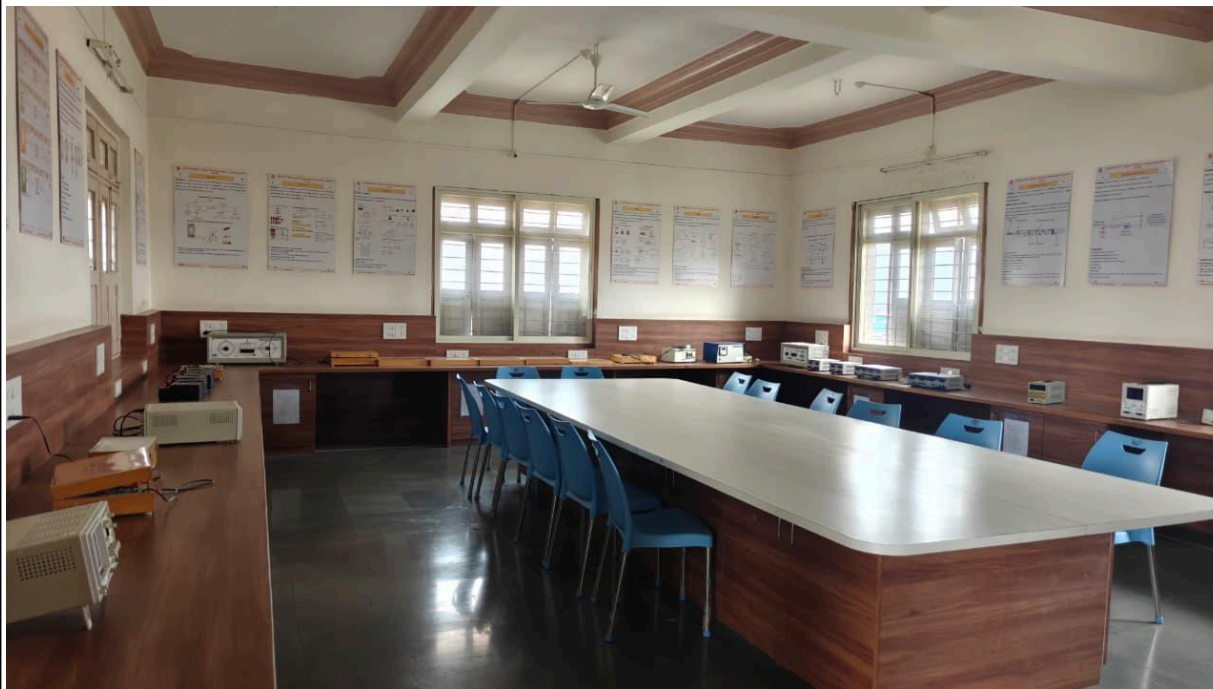
**LAB 2: ROOM NO: 311A****LAB NAME: Electronic Circuit Design Lab**

Objectives: The Electronic Circuit Design Lab provides practical knowledge of designing, analyzing, and testing analog and digital electronic circuits. The laboratory helps students understand electronic components, PCB design concepts, simulation techniques, and troubleshooting methods through hands-on experimentation.

Strength: The lab is equipped with modern electronic instruments, circuit design tools, breadboards, power supplies, CROs, function generators, and simulation software to support practical learning. It offers a well-structured environment for conducting experiments, circuit implementation, mini-projects, and research-oriented activities.

Software Available: Multisim / LTspice / Proteus (for circuit simulation and design analysis)

SR. NO	ITEM NAME & SPECIFICATION	QTY
1	Op-amp as Peak detector	1
2	Op-amp as Inverting and Non-inverting Amplifier	1
3	First and Second Order Low-Pass Butterworth Filter	1
4	DC Power Supply	1
5	Wien Bridge Oscillator	1
6	Easyscope 30MHz Oscilloscope with color LCD Digital Readout and Component Tester	1

**LAB 3: ROOM NO: 207****LAB NAME: Logic Circuit Design Lab**

Objectives: The Logic Circuit Design Lab is designed to provide practical understanding of digital electronics, logic gates, combinational and sequential circuits, and digital system design concepts. The lab enables students to develop skills in circuit implementation, analysis, simulation, and troubleshooting through hands-on experiments.

Strength: The laboratory is equipped with digital trainer kits, ICs, FPGA/microcontroller interfacing facilities, power supplies, CROs, and simulation software to support effective practical learning. It provides an interactive environment for conducting experiments, mini-projects, and digital circuit design activities.

Software Available: Multisim / LTspice / Proteus (for circuit simulation and design analysis)

SR. NO	ITEM NAME & SPECIFICATION	QTY
1	M-Driven BP & BR filter	02
2	Passive Attenuators	01
3	RLC Series & Parallel Resonance	02
4	Thevenins & Maximum Power transfer theorem	01
5	Reciprocity & Superposition theorem	01
6	Two Port Network	02
7	Easy-scope 30MHz Oscilloscope with color LCD digital readout & component tester	01
8	Dual DC Power Supply 30-0-30V/0-2A	01

**LAB 4: ROOM NO: 312A****LAB NAME: Programming Lab III**

Objectives: Programming Lab 4 is established to enhance students' programming knowledge through practical implementation of coding concepts, software tools, and application development techniques. The lab encourages analytical thinking, debugging skills, teamwork, and project-based learning for industry-oriented technical education.

Strength: The laboratory is equipped with around 30–40 computer systems with modern software tools, internet connectivity, and networking support for conducting practical sessions effectively. The lab infrastructure supports regular academic practicals, coding practice, workshops, and student project activities.

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