# LAB FACILITIES

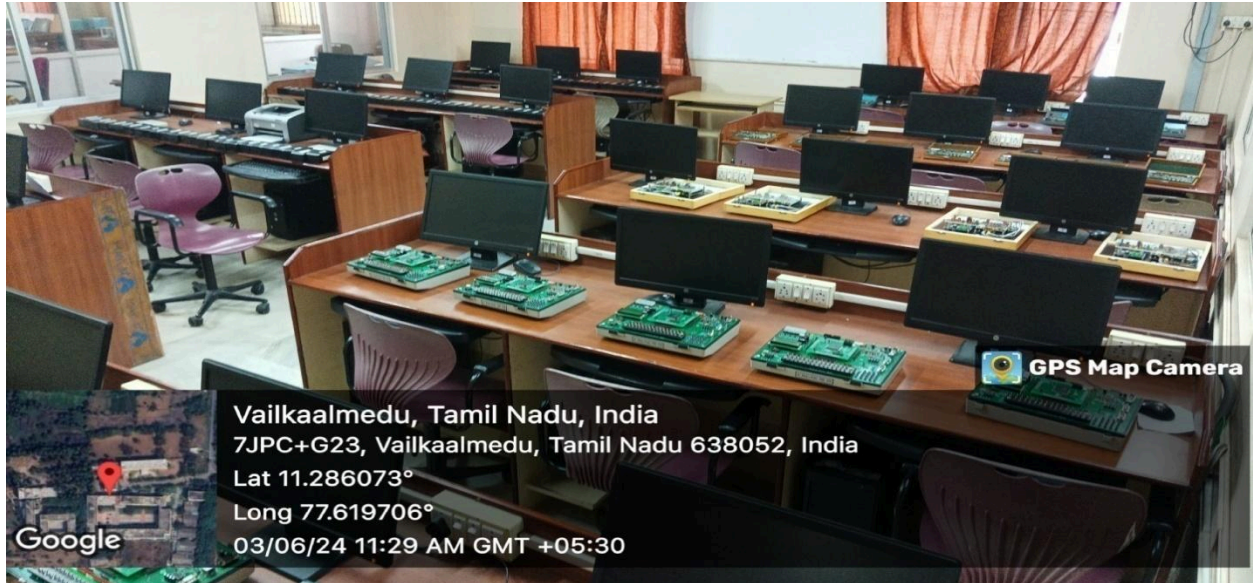**Electron Devices Laboratory**

The laboratory is well equipped with the collection of components like dual trace and digital storage Oscilloscope, Function Generators, Power Supplies, Bread boards. Guidance is provided to the students by a team of expert faculty and lab technicians. Students are grouped into small teams and guided for project based learning.



**Simulation Laboratory**

The field of DSP/VLSI was developed due to the flexibility offered by the use of digital computers in implementing signal processing algorithms and systems. The lab is equipped with personal computers with higher configuration, where students practice program in DSP and VLSI using MATLAB & Xilinx software and analyze the communication systems through Network Software N-sim and L-Sim.

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**Integrated Circuits Laboratory**

Numbers of Digital IC'S are available to get the knowledge about logical circuits and their components for the students. Analog and Digital Trainer Kits are used to built combinational and sequential circuits. Students are supported to carry out mini projects using Digital and Analog circuitry.



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**Microprocessor and Microcontroller Laboratory**

This lab helps the students enhance their knowledge about various processors such as 8085, 8086, microcontrollers kits with variety of interfaces and control kits like Temperature Controller, LVDT Position Controller, Stepper motor Controller and Traffic light Controller. Students from other branch of engineering also develop their skills in the field of microcontroller and its applications. The features and facilities available in this lab will help the students do their projects and enhance their knowledge about the latest trends.



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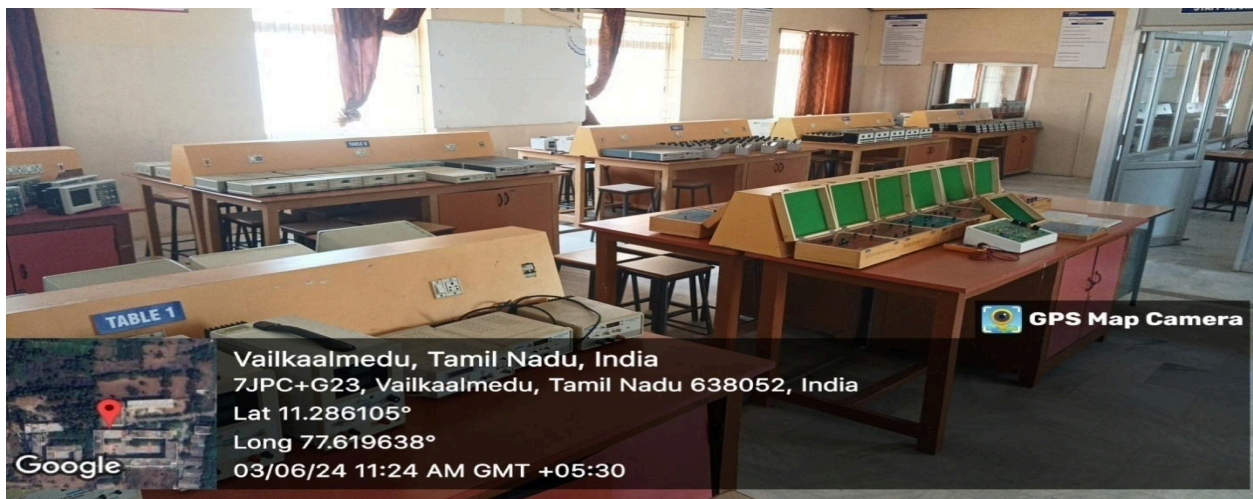**Optical and Microwave Laboratory**

The students are exposed to the microwave active devices like Klystron, Gunn diode, Isolator, Circulator, slide screw tunner, magic tee, directional coupler, horn antenna, attenuator, terminations.

Optical communication lab is equipped with trainer kits, Power sources and Power Meters to enable the study of components of an optical communication system.

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## Digital Communicati-on  Laboratory

In Communication systems lab, there is a lot of scope for the students to study in detail about various types of Modulators and De-Modulators, Transceivers and Spectrum Analyzer along with the different types of Filters and their design and usage and also different types of Pulse Code Modulation (PCM) formats. In this lab, mathematical models are designed and simulated in MATLAB and perform the practical simulation using hardware kits.



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**PG-Communication Systems Lab**

- To design next-generation wired, wireless technologies and communication systems.
- To provide a quality training and to contribute students participation in national and international level technical competitions.
- To make students in involvement of fulfilling industrial requirements through interdisciplinary activities.
- To provide exposure and recruitment to students through applied lab.



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**Project Lab**

The Project Laboratory offers the students, the opportunity to gain valuable hands-on experience where students become proficient in both the physical and creative skills needed in the field of Electronics and Communication Engineering. The Project Laboratory has a key role in promoting practical learning experience, a place where they develop creative proposals, and execute their PBL/mini projects.

The main purpose of Project Laboratory is to provide an environment for student for developing their Project based learning (PBL) subjects and Final year main projects.