



# PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

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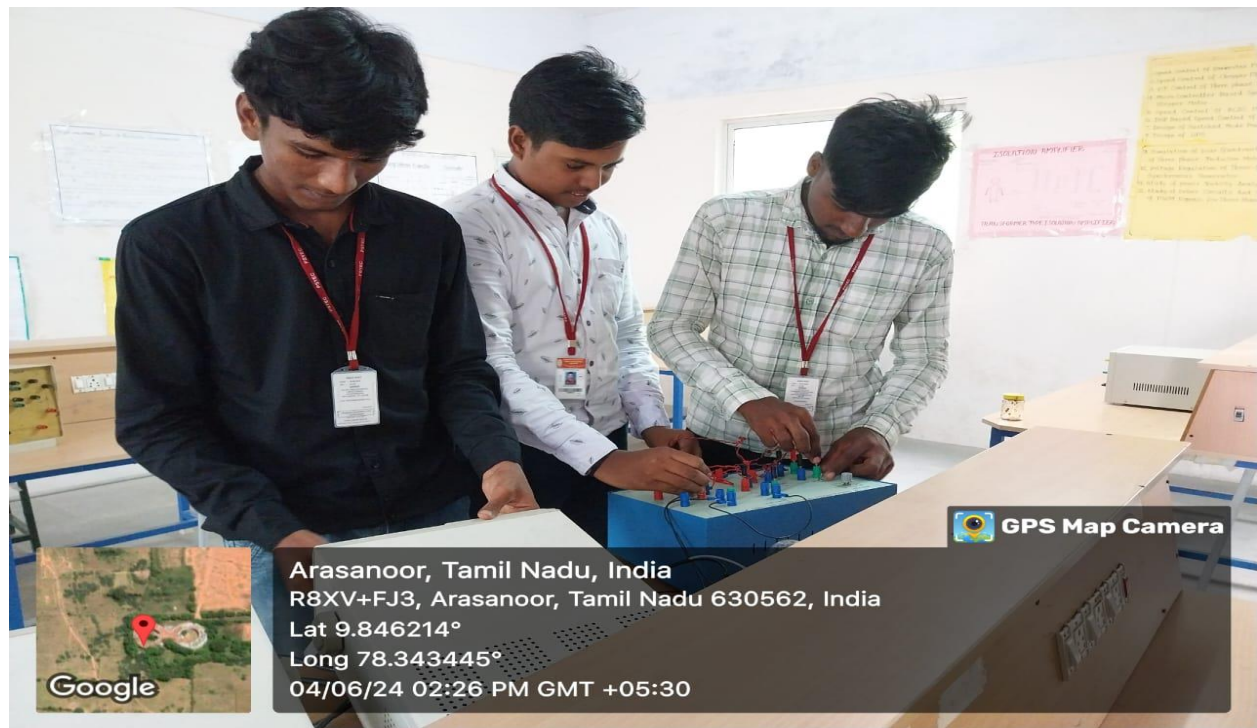
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Mobile : 9842102628, 7373002628 Email: info@psyec.edu.in Website : www.psyec.edu.in

City Office : 10, Pandian Saraswathi St, Sivagami Nagar, Narayanapuram, Madurai - 625 014. Telefax- 0452 2682338, Mobile : 98423-02628

## EXPERIMENTAL LEARNING

### POWER ELECTRONICS LABORATORY

- ❖ To know the behavior of Power semiconductor devices and compare their performances.
- ❖ To know how to synthesize a power converter using power electronics equipment.
- ❖ Analyze and test the power semiconductor devices and their applications.
- ❖ Compare and contrast various power semiconductor devices according to their applications.
- ❖ Have confidence in dealing with high-power equipments and upgrade their performance.
- ❖ Use the knowledge acquired through this lab to design circuits which are useful in day-day life.



### GLIMPSE OF POWER ELECTRONICS LABORATORY



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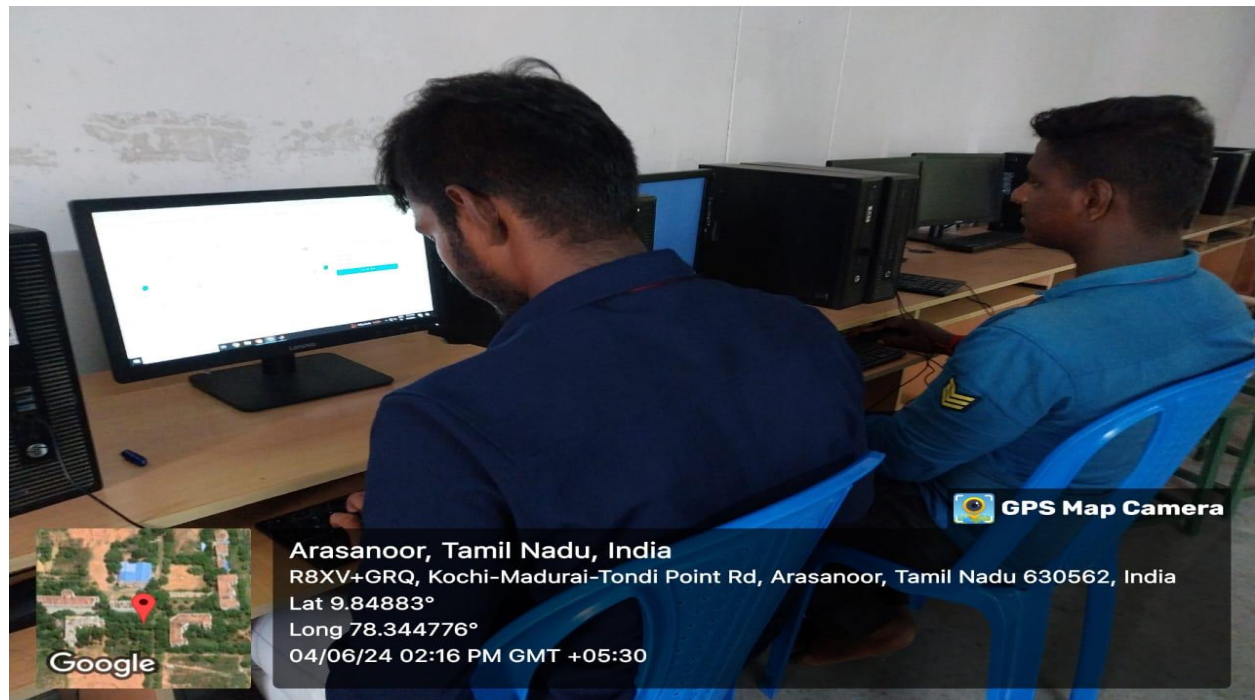
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## SIMULATION LABORATORY

- ❖ The student will analyze the characteristics of Electrical circuits & Simulation.
- ❖ To Perform Laboratory Experiments practically.
- ❖ To carry out laboratory experiments on simulation & Networks.
- ❖ To understand the fundamentals of electrical circuits & simulation.
- ❖ This course introduces the basic concepts of simple DC & AC Circuits.
- ❖ The basic Two Port Network Parameters.
- ❖ Will able to articulate in working of various components of a circuit.
- ❖ To design electrical systems.



## GLIMPSE OF SIMULATION LABORATORY





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## CONTROL AND INSTRUMENTATION LABORATORY

- ❖ Ability to understand control theory and apply them to electrical engineering problems.
- ❖ Ability to analyze the various types of converters.
- ❖ Ability to design compensators.
- ❖ Ability to understand the basic concepts of bridge networks.
- ❖ Ability to the basics of signal conditioning circuits.
- ❖ Ability to study the simulation packages.
- ❖ To provide knowledge on analysis and design of control system along with basics of instrumentation.



## GLIMPSE OF CONTROL AND INSTRUMENTATION LABORATORY



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## ELECTRICAL MACHINES LABORATORY

- ❖ The electrical machines lab plays a crucial role in helping Students Bridge the gap between theoretical knowledge and practical application.
- ❖ It enables them to gain a deeper understanding of electrical machines and prepares them for real-world challenges in the field of electrical engineering.
- ❖ The laboratory is equipped with conventional and modern electrical and electronics measuring equipment, various AC and DC electrical machines and transformers.
- ❖ This laboratory caters the need of under graduate students to enable them to easily understand the basics and adapt to advanced experiments like modeling of electrical machines and special electrical machines.



## GLIMPSE OF ELECTRICAL MACHINES LABORATORY





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## RENEWABLE ENERGY SOURCES LABORATORY

- ❖ Study the performance of various renewable energy sources.
- ❖ Obtain hands-on experience on various wind turbine operation.
- ❖ Analyze the grid integration issues of renewable energy sources.
- ❖ To analyze the performance characteristics of DFIG and PMSG.
- ❖ To design and model PV system integration with grid.
- ❖ Understanding the physics of solar radiation.
- ❖ Ability to classify the solar energy collectors and methodologies of storing solar energy.
- ❖ Knowledge in applying solar energy in a useful way.



## GLIMPSE OF RENEWABLE ENERGY SOURCES LABORATORY



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## ELECTRONICS DEVICES AND CIRCUITS LABORATORY

- ❖ The lab provides the foundation for electronics engineering.
- ❖ This lab aims to provide students with knowledge about various electronic devices.
- ❖ Students are made familiar with electronic circuits and their intended use in various applications.
- ❖ This Laboratory is primarily aimed at meeting the requirements of practical work meant for active Components basic analysis, designing and testing of Amplifier and Oscillators.
- ❖ All basic Electron devices and their characteristics and applications can be studied.
- ❖ Using these devices, the small electronic circuits can be constructed and checked.



## GLIMPSE OF ELECTRONICS DEVICES AND CIRCUITS LABORATORY





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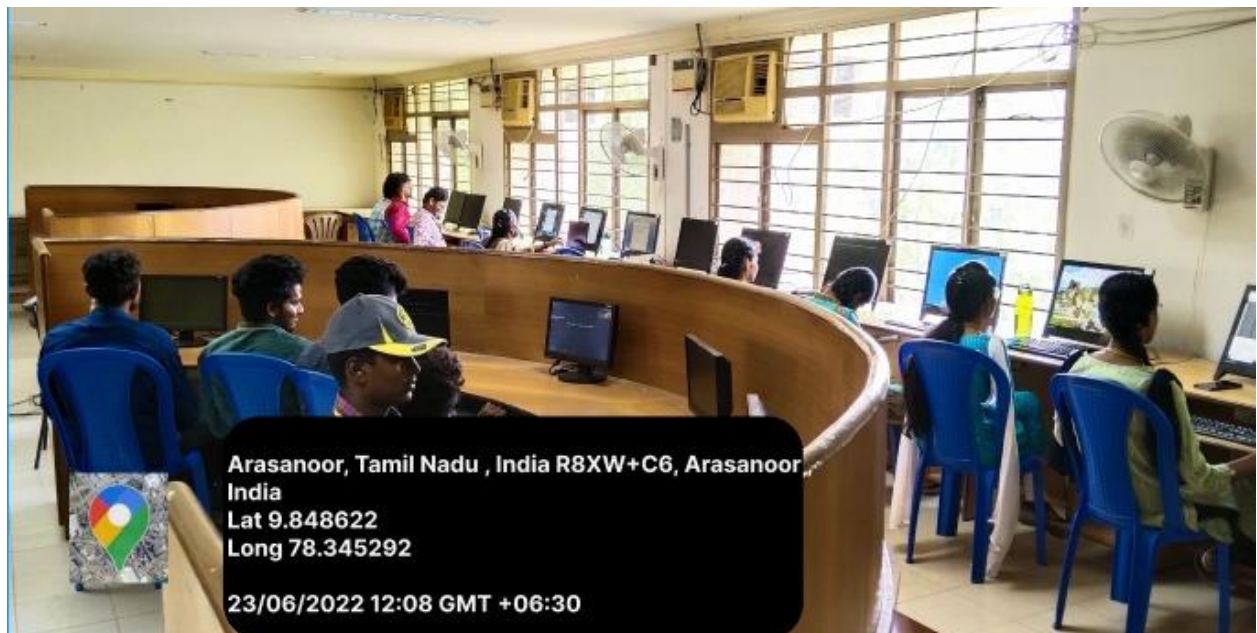
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## NETWORKS LABORATORY

- ❖ To learn to use commands like tcpdump, netstat, ifconfig, nslookup and traceroute. Capture ping and trace route PDUs using a network protocol analyzer and examine.
- ❖ To learn TCP socket Programming.
- ❖ To implement and analyze various network protocols such as TCP, UDP.
- ❖ To learn and use simulation tools such as Network simulator.
- ❖ To use simulation tools to analyze the performance of various network protocols.



**GLIMPSE OF NETWORKS LABORATORY**



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## APPLICATION LABORATORY

- ❖ To understand the components and structure of mobile application development frameworks for Android and windows OS based mobiles.
- ❖ To understand how to work with various mobile application development frameworks
- ❖ To learn the basic and important design concepts and issues of development of mobile applications.
- ❖ To understand the capabilities and limitations of mobile devices.
- ❖ Application labs allow students to interact with equipment, tools, and materials relevant to their field of study.



**GLIMPSE OF APPLICATION LABORATORY**





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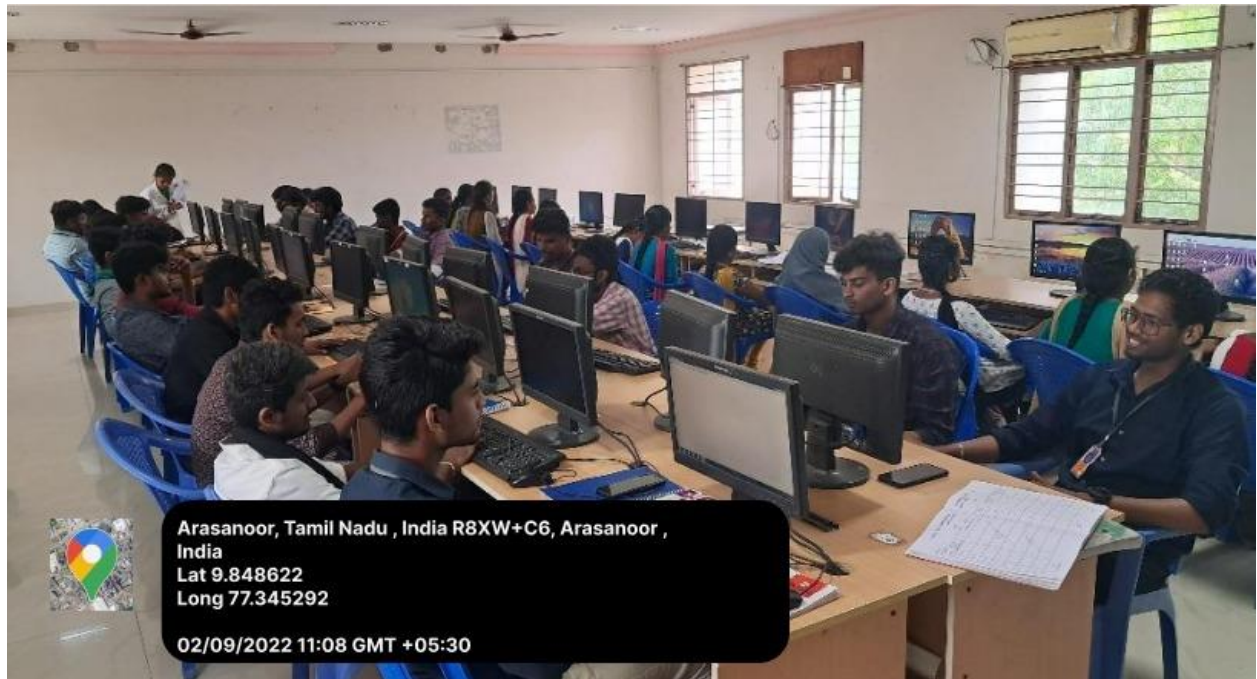
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## CLOUD LABORATORY

- ❖ To simulate a cloud scenario using CloudSim and run a scheduling algorithm that is not present in CloudSim.
- ❖ To learn the design and development process involved in creating a cloud based application.
- ❖ To Install Virtualbox/VMware Workstation with different flavours of linux or windows OS on top of windows7 or 8
- ❖ To Install Google App Engine. Create hello world app and other simple web applications using python/java.



**GLIMPSE OF CLOUD LABORATORY**



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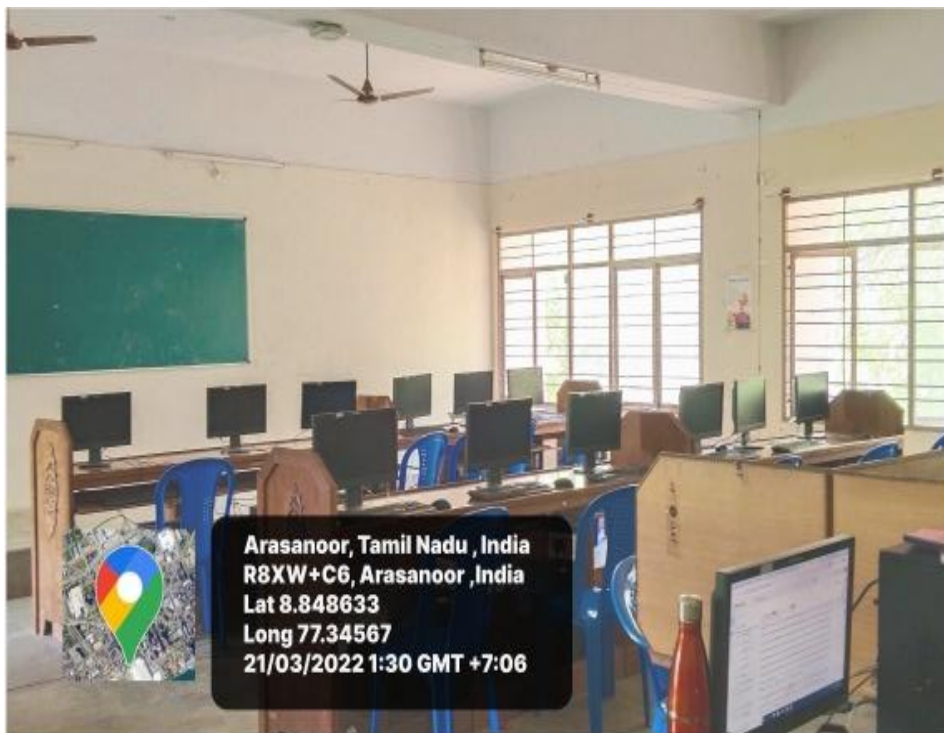
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## M.E LABORATORY

- ❖ To acquire the knowledge of using advanced tree structures
- ❖ To implement Map Reduce programs for processing big data
- ❖ To realize storage of big data using H base, Mongo DB
- ❖ To gain expertise in server, network and storage virtualization.



## GLIMPSE OF M.E LABORATORY





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## CONCRETE AND HIGHWAY ENGINEERING LABORATORY

- To understand the properties of concrete materials: cement, aggregates, water, and admixtures.
- To learn the procedures for mix design and concrete proportioning.
- To assess the compressive strength, tensile strength, and flexural strength of concrete.
- To conduct tests to determine the quality and suitability of road construction materials.
- Perform tests on bituminous materials to evaluate their properties.



## GLIMPSE OF CONCRETE AND HIGHWAY ENGINEERING LABORATORY



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## SOIL MECHANICS LABORATORY

- To understand the basic properties and behavior of soils.
- To learn the procedures for soil sampling and preparation for testing.
- To conduct standard soil tests to determine physical and mechanical properties.
- To analyze soil test results to classify soils and assess their suitability for construction.
- Gain practical experience in soil testing techniques and equipment.



**GLIMPSE SOIL MECHANICS LABORATORY**





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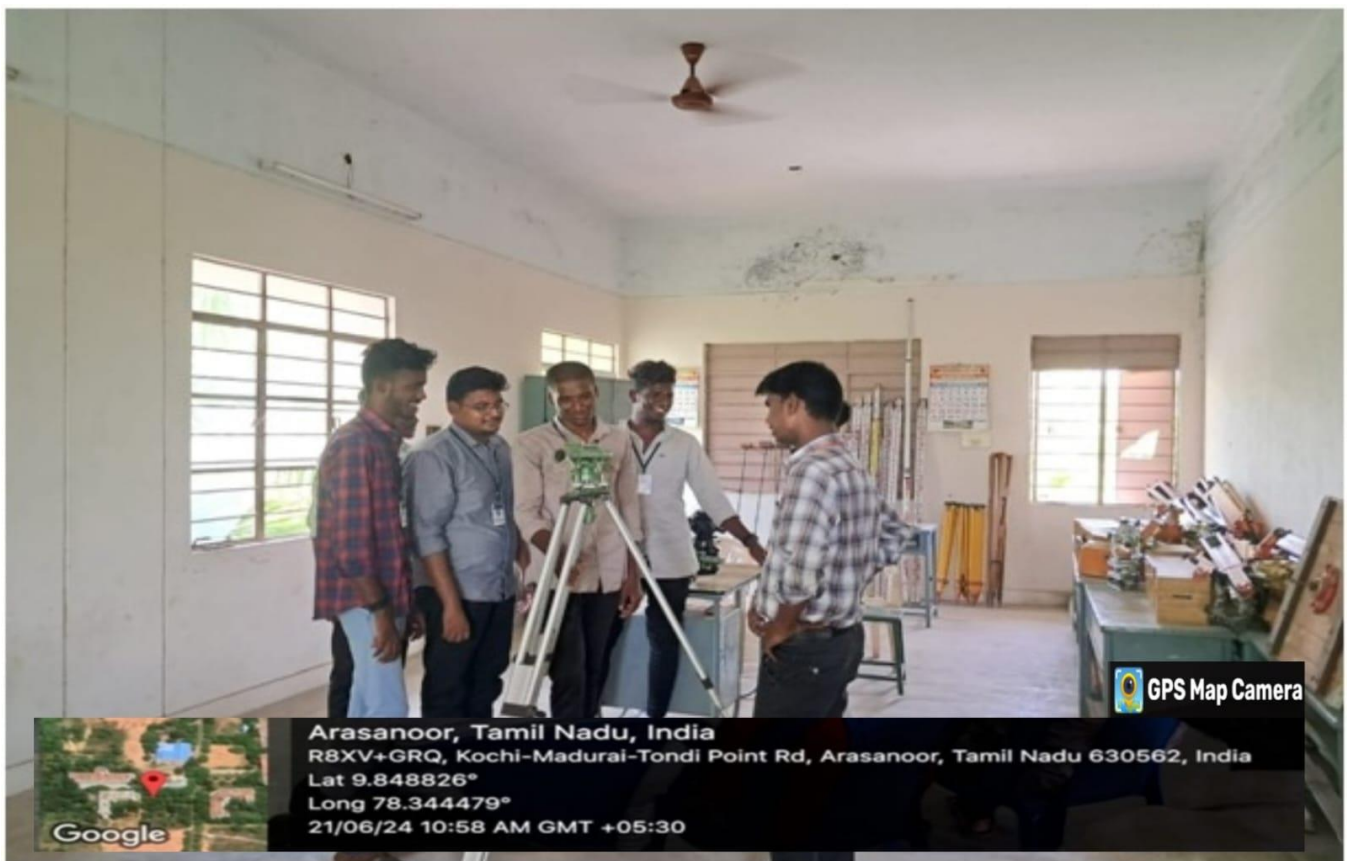
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## SURVEYING LABORATORY

- To understand the principles and methods of land surveying.
- Gain proficiency in using surveying instruments and equipment.
- Learn to measure distances, angles, and elevations accurately.
- Develop skills in data collection, analysis, and mapping.
- Apply surveying techniques to civil engineering projects.



**GLIMPSE OF SURVEYING LABORATORY**



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## WATER AND WASTEWATER ANALYSIS LABORATORY

- To understand basic principles of water and wastewater quality.
- Learn to use standard laboratory equipment and techniques.
- Measure physical, chemical, and biological parameters of water and wastewater.
- Analyze data to determine water and wastewater quality.
- Apply testing methods to real-world environmental engineering problems.



## GLIMPSE OF WATER AND WASTEWATER ANALYSIS LABORATORY





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## ELECTRONICS DEVICE AND CIRCUITS LABORATORY

- ❖ To learn the characteristics of basic electronic devices such as Diode, BJT, FET, SCR
- ❖ To understand the working of RL, RC and RLC circuits
- ❖ To gain hand on experience in Thevenin, Norton theorem, KVL & KCL, and Super Position Theorems
- ❖ Analyze the characteristics of basic electronic devices
- ❖ Design RL and RC circuits    Verify Thevenin & Norton theorem KVL & KCL, and Super Position Theorems



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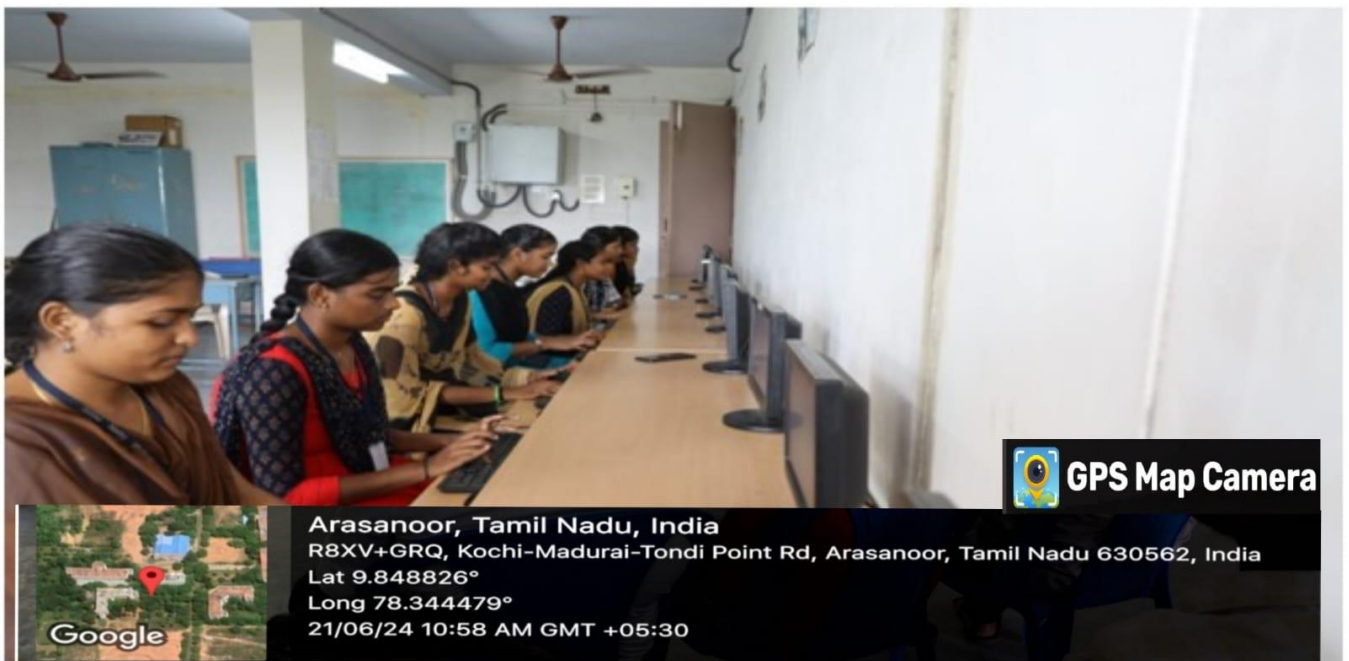
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## VLSI DESIGN LABORATORY

- ❖ To learn Hardware Descriptive Language(Verilog/VHDL)
- ❖ To learn the fundamental principles of VLSI circuit design in digital and analog domain To familiarize fusing of logical modules on FPGAs
- ❖ To provide hands on design experience with professional design (EDA) platforms
- ❖ Study HDL code for basic as well as advanced digital integrated circuit Import the logic modules into FPGA Boards
- ❖ Synthesize Place and Route the digital IPs Design, Simulate and Extract the layouts of Digital & Analog IC Blocks using EDA tools



## GLIMPSE OF VLSI DESIGN LABORATORY



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## MICROPROCESSOR AND MICROCONTROLLER LABORATORY

- ❖ To Introduce ALP concepts, features and Coding methods Write ALP for arithmetic and logical operations in 8086 and 8051
- ❖ Differentiate Serial and Parallel Interface Interface different I/Os with Microprocessors
- ❖ Be familiar with MASM Write ALP Programmes for fixed and Floating Point and Arithmetic operations Interface different I/Os with processor
- ❖ Generate waveforms using Microprocessors Execute Programs in 8051
- ❖ Explain the difference between simulator and Emulator



## GLIMPSE OF MICROPROCESSOR AND MICROCONTROLLER LABORATORY





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## COMMUNICATION SYSTEMS LABORATORY

- ❖ To visualize the effects of sampling and TDM To Implement AM& FM modulation and demodulation.
- ❖ To implement PCM & DM To simulate Digital Modulation schemes To simulate Error control coding schemes Simulate & validate the various functional modules of a communication system
- ❖ Demonstrate their knowledge in base band signaling schemes through implementation of digital modulation schemes.



## GLIMPSE OF COMMUNICATION SYSTEMS LABORATORY



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## DIGITAL SIGNAL PROCESSING LABORATORY

- ❖ To perform basic signal processing operations such as Linear Convolution, Circular Convolution, Auto Correlation, Cross Correlation and Frequency analysis in MATLAB
- ❖ To implement FIR and IIR filters in MATLAB and DSP Processor
- ❖ To study the architecture of DSP processor
- ❖ To design a DSP system to demonstrate the Multi-rate and Adaptive signal processing concepts.



## GLIMPSE OF DIGITAL SIGNAL PROCESSING LABORATORY



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## FLUID MECHANICS LABORATORY

- ❖ To know the behavior of Hydraulic devices and compare their performances.
- ❖ To know how to find discharge of a hydraulic machines using Orifice meter, venturi meter.
- ❖ To know the behavior of pumps and compare their performances
- ❖ Compare and contrast various turbines devices according to their performance.
- ❖ Use the knowledge acquired through this lab to determine various losses occur in pipe friction apparatus which are useful in day-day life



## GLIMPSE OF FLUID MECHANICS LABORATORY





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## CAD/CAM & SIMULATION LABORATORY

- ❖ To gain practical experience in handling 2D drafting and 3D modelling software systems.
- ❖ Designing 3 Dimensional geometric models of parts, sub-assemblies, assemblies and exporting it to drawing.
- ❖ Programming G & M Code programming and simulate the CNC program and generating part programming data through CAM software.



## GLIMPSE OF CAD/CAM & SIMULATION LABORATORY



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## THERMAL ENGINEERING LABORATORY

- ❖ Ability to understand mode of heat transfer.
- ❖ Ability to analyze the various types of heat conduction.
- ❖ Ability to understand the black body and white body emission.
- ❖ Ability to understand the basic concepts of heat exchangers.
- ❖ Ability to the basics of air conditioning and refrigeration.



## GLIMPSE OF THERMAL ENGINEERING LABORATORY



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## DYNAMICS LABORATORY

- ❖ Ability to understand the forced vibration and free vibration apparatus.
- ❖ Ability to analyze the gyroscopic apparatus.
- ❖ Ability to understand the gear parameters.
- ❖ Ability to understand the basic concepts flywheel mechanical energy storage devices.
- ❖ Ability to the basics of various governors.



## GLIMPSE OF DYNAMICS LABORATORY





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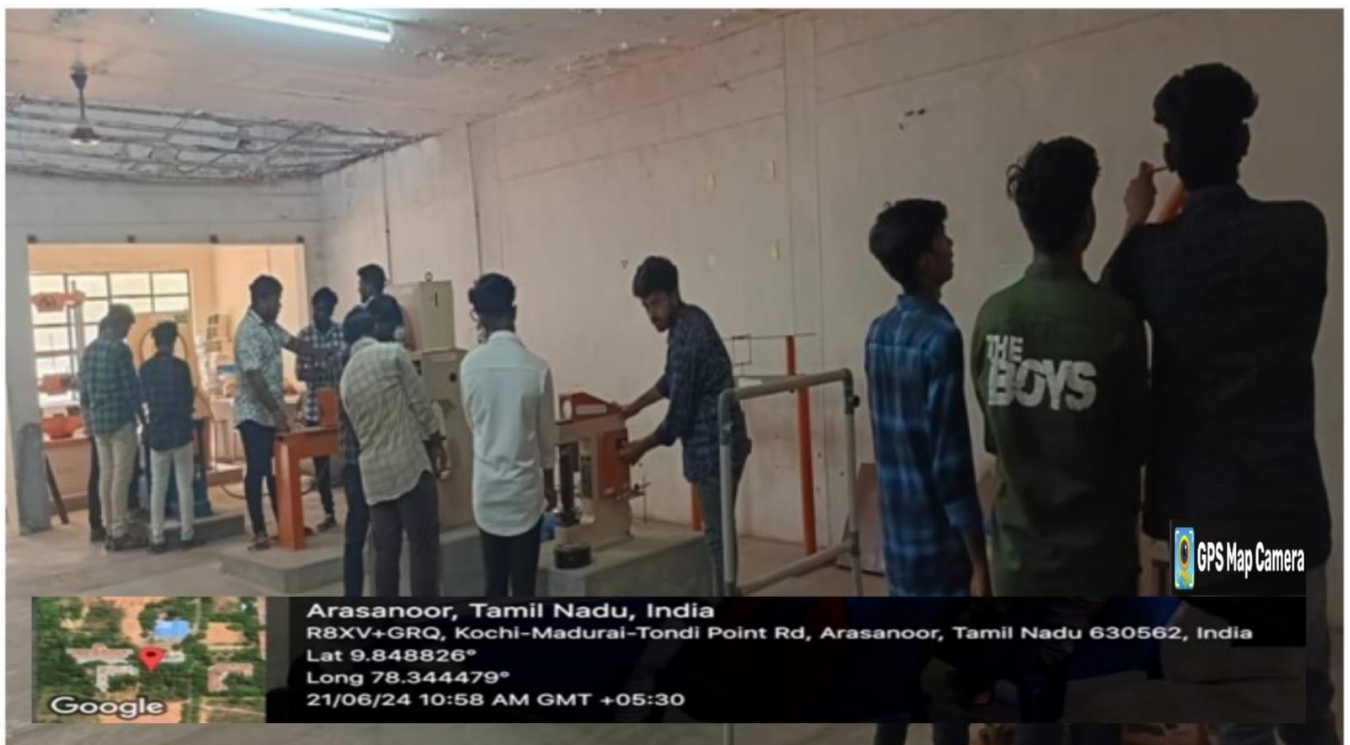
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## STRENGTH OF MATERIALS LABORATORY

- ❖ Study the performance of various hardness test.
- ❖ Obtain hands-on experience on various spring test.
- ❖ Analyze the impact test .
- ❖ To analyze the performance torsional test.
- ❖ Ability to understand the deflection test on spring



## GLIMPSE OF STRENGTH OF MATERIALS LABORATORY



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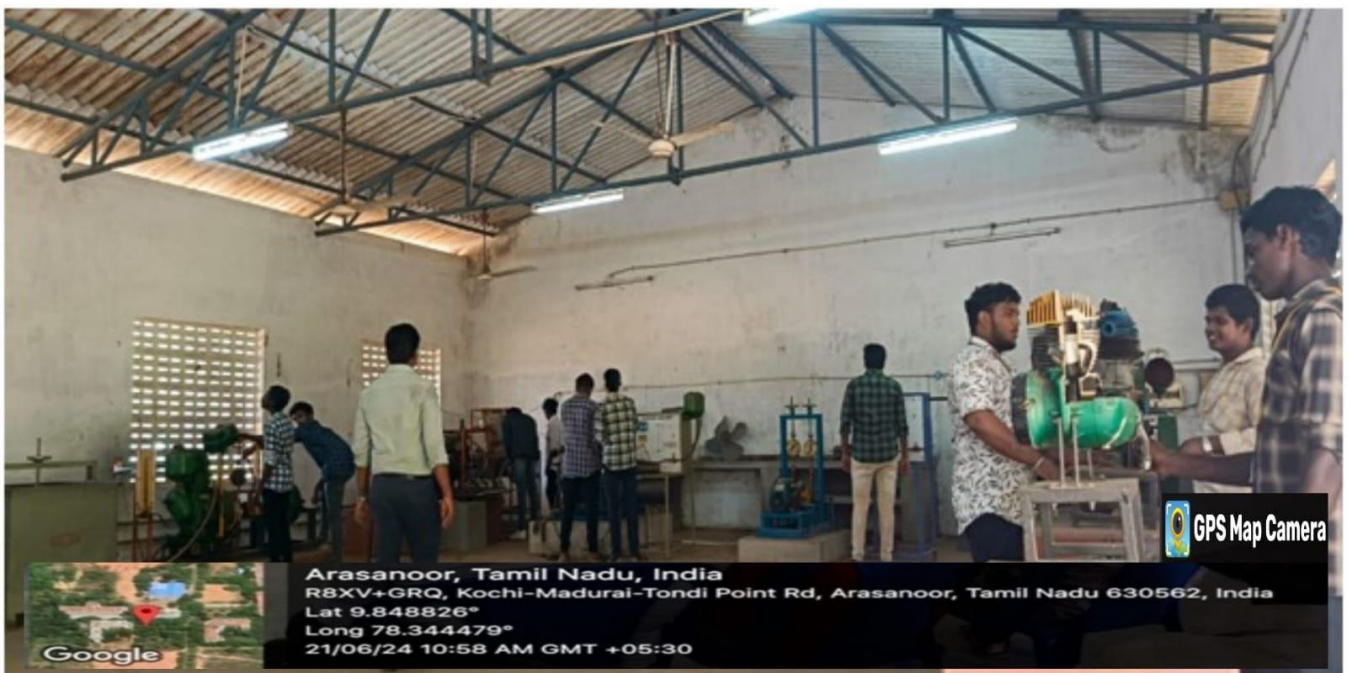
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## IC ENGINE LABORATORY

- ❖ The lab provides the foundation for mechanical engineering.
- ❖ This lab aims to provide students with knowledge about various types of engine.
- ❖ This Laboratory is primarily aimed to understand the multi cylinder engine performance.
- ❖ To understand the basic of four and two stroke engine.
- ❖ To understand the valve timing diagram for all stroke engine.



## GLIMPSE OF IC ENGINE LABORATORY



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## MECHATRONICS LABORATORY

- ❖ To provide the hands on-training in the control of linear and rotary actuators.
- ❖ This Laboratory is primarily aimed to understand the multi cylinder engine performance.
- ❖ To study the concepts and fundamentals of IoT, sensors, actuators and IoT boards
- ❖ Demonstrate the functioning of mechatronics systems with various pneumatic, hydraulic and electrical systems.
- ❖ Demonstrate the microcontroller and PLC as controllers in automation systems by executing
- ❖ proper interfacing of I/O devices and programming



## GLIMPSE OF MECHATRONICS LABORATORY





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## METROLOGY AND MEASUREMENTS LABORATORY

- ❖ To study the different measurement equipment and use of this industry for quality inspection.
- ❖ To supplements the principles learnt in dynamics of machinery.
- ❖ To understand how certain measuring devices are used for dynamic testing.
- ❖ To supplements the principles learnt in dynamics of machinery



## GLIMPSE OF METROLOGY MEASUREMENTS LABORATORY



# PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

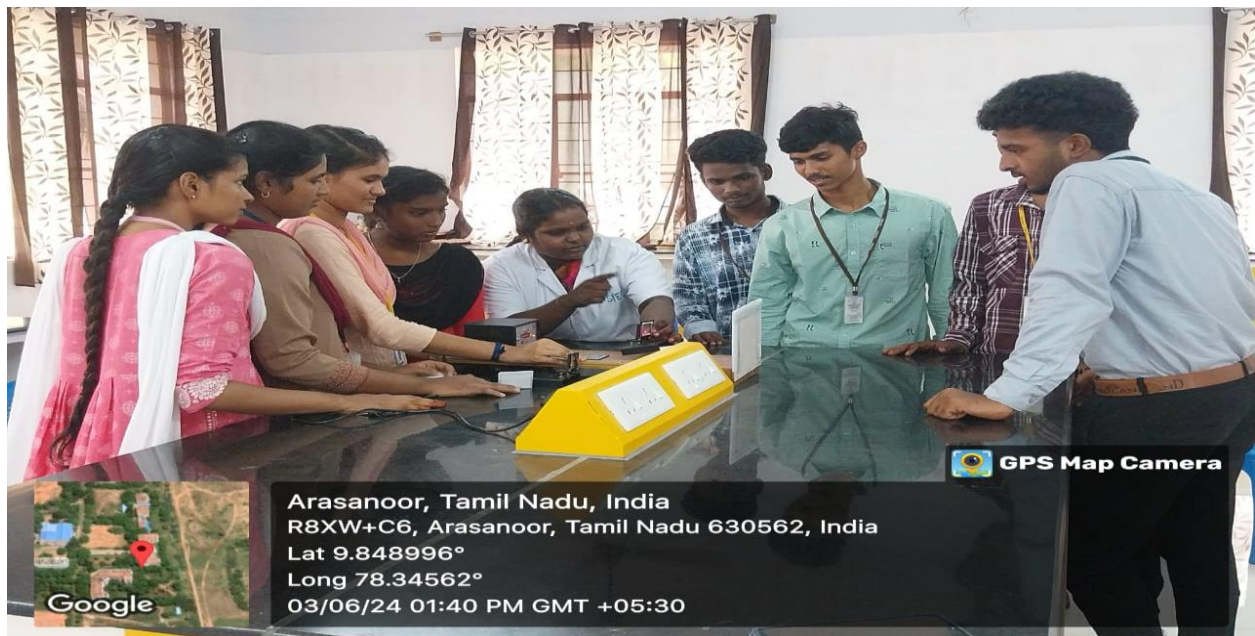
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## PHYSICS LABORATORY

- To learn the proper use of various kinds of physics laboratory equipment.
- To learn how data can be collected, presented and interpreted in a clear and concise manner.
- To learn problem solving skills related to physics principles and interpretation of experimental data.



## GLIMPSE OF PHYSICS LABORATORY



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## CHEMISTRY LABORATORY

- To inculcate experimental skills to test basic understanding of water quality parameters, such as, acidity, alkalinity, hardness, DO, chloride and copper.
- To induce the students to familiarize with electroanalytical techniques such as, pH meter, potentiometry and conductometry in the determination of impurities in aqueous solutions.
- To demonstrate the analysis of metals and alloys.
- To demonstrate the synthesis of nanoparticles



## GLIMPSE OF CHEMISTRY LABORATORY





# PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

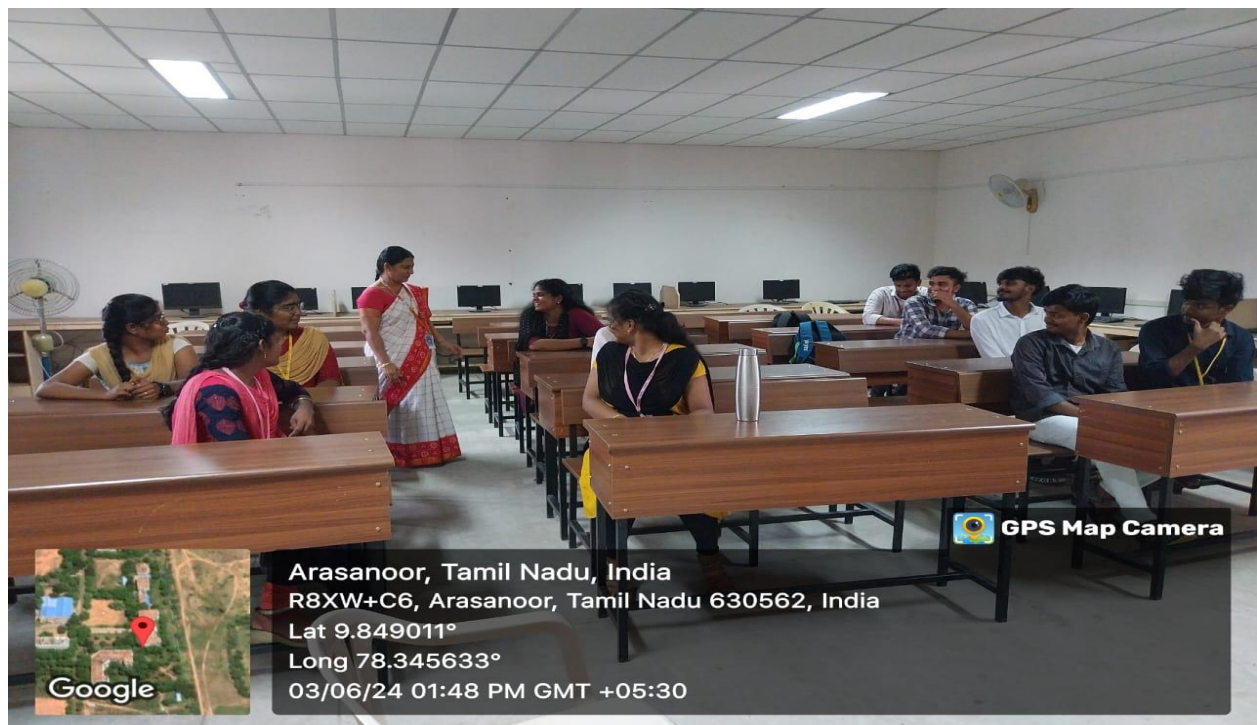
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## COMMUNICATION LABORATORY

- To identify varied group discussion skills and apply them to take part in effective discussions in a professional context.
- To analyze concepts and problems and make effective presentations explaining them clearly and precisely.
- To be able to communicate effectively through formal and informal writing.
- To be able to use appropriate language structures to write emails, reports and essays



## GLIMPSE OF COMMUNICATION LABORATORY



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## CENTRAL LIBRARY

Library is a treasure house of knowledge. The library is creating and manages the best environment that supports learning and research. The spacious reading area lends a calm and comfortable atmosphere for the students and faculty members to pursue excellence in their academic activities. Our central library has more than 25,000 volumes and subscribed for 110 National and International journals. Open access system is followed in the library.



## OUTLOOK OF JOURNAL SECTION IN LIBRARY



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The library services are fully automated with homemade software with barcode facilities. It fulfills the needs of its Students, faculty members and researcher scholars with modern collection, knowledge resources and innovative information services. Its plays an essential role for the upliftment of user's community and their intellectual pursuits.

## **E-JOURNALS**

The College library subscribes to the following E-Journals Online Access to e-journals from

- IEEE, e-Journals through the INDEST-AICTE Consortium Membership, New Delhi
- Delnet Organizational Membership, New Delhi
- British Council Library Membership. Chennai.
- ICTACT Membership, Chennai.

## **INTERNET SERVICES**

Internet facilities are provided in the library from 8-00 am to 8-00 pm and students are using it with high level of satisfaction and down loading e- resources in large amount for their study.

## **AUDIO VISUAL SECTION**

The Audio-Visual Section of the library has facilities to view video programs with the help of LED TV. The satellite receiver is provided to receive educational programs like Gyan Darshan Technology.





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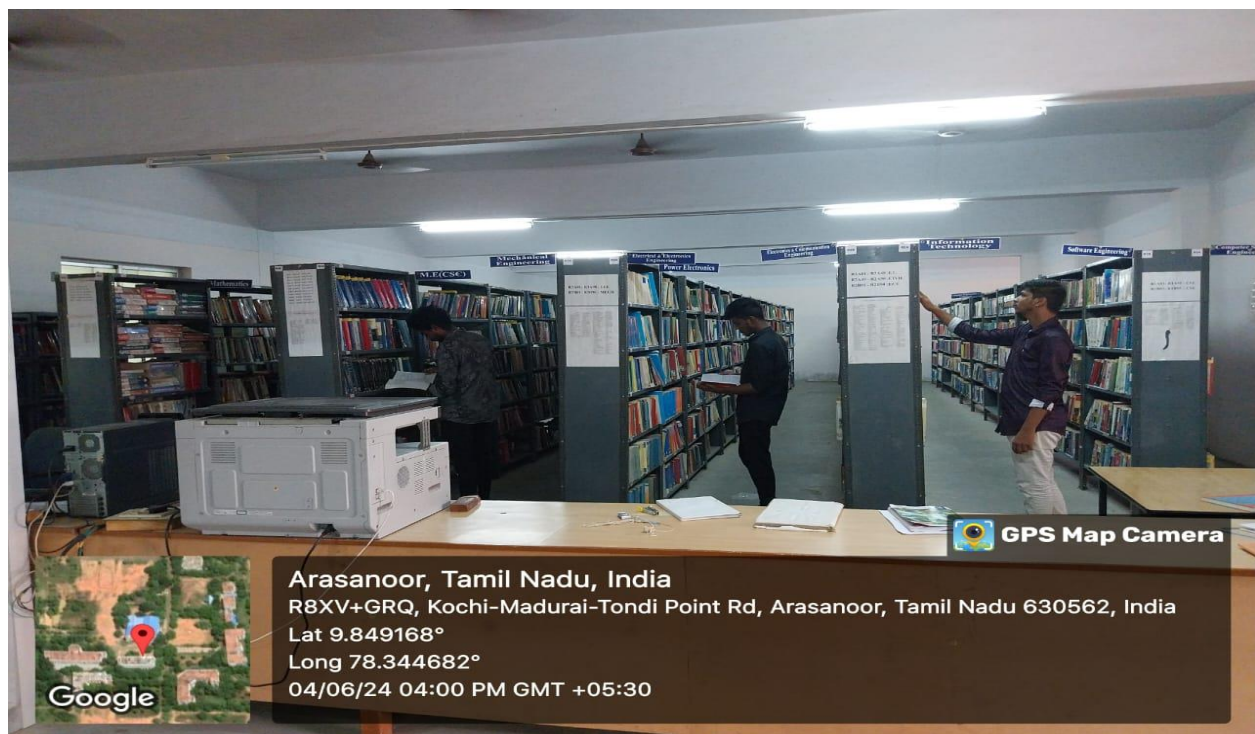
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## NEW ARRIVAL

The new arrivals of books are displayed in a separate area. Those books can be borrowed by the staff and students after 15 days from the date of display.

## INSTITUTIONAL REPOSITORIES AND PHOTO COLLECTION

The rare collection of digital resources of faculties members, management documents and Photo collections of various activities took place in the college campus are placed in the section.



## REFERENCE SECTION OF ALL DEPARTMENT IN LIBRARY



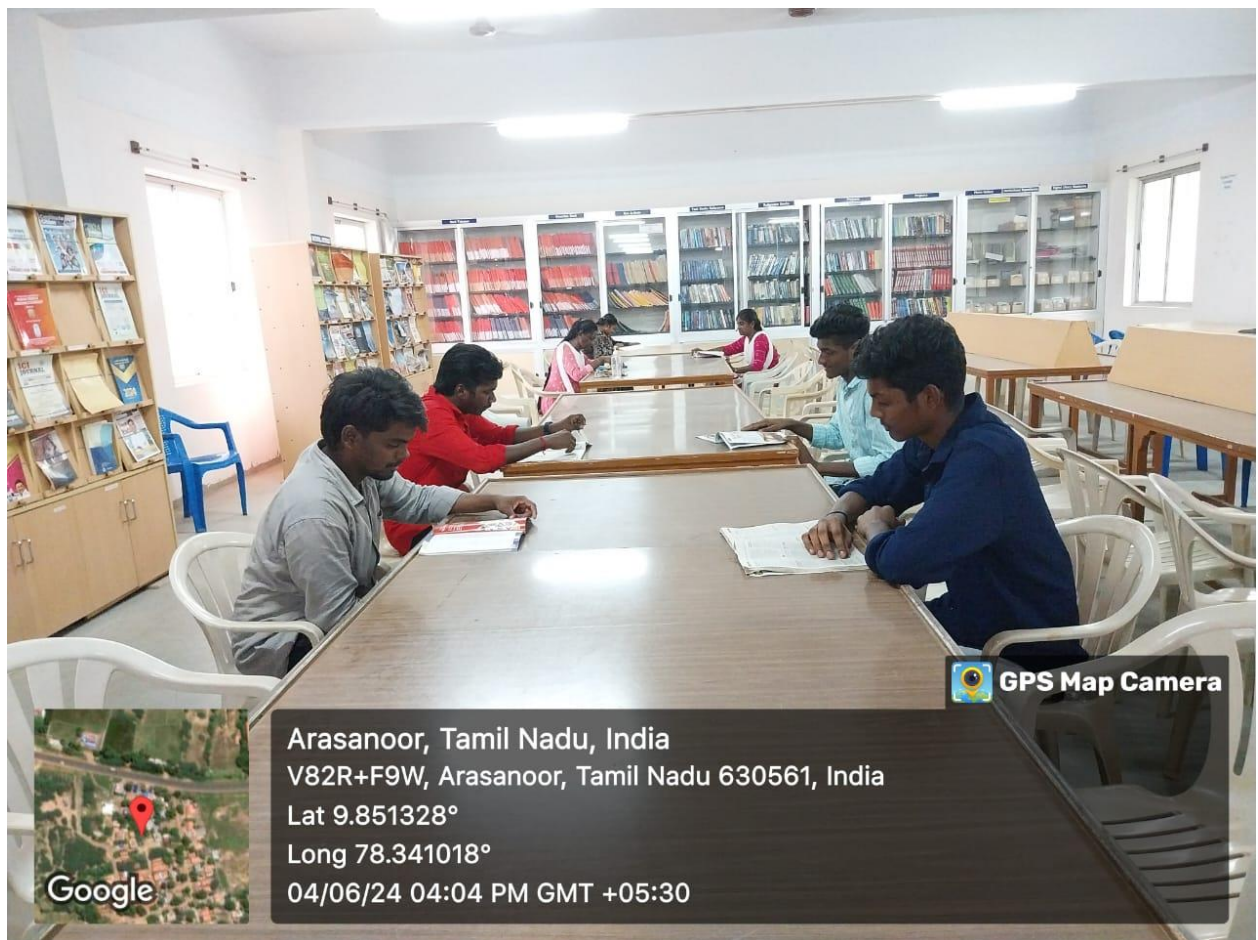
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Creating a culture of reading also helps the brain focus and improve learners' concentration. The library has separate periodicals section and subscribes 110 International and National Journals. The Journals and Newsletters are providing the latest information in technical education, research and development activities to the staff and students.



**STUDENTS ENHANCING THE LEARNING THROUGH READING BOOKS**



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## **REFERENCE SECTION**

The reference section of the library has rich collection of International editions of reference books, hand books, conference proceedings, encyclopedias, dictionaries, Year Books and various reference documents.

## **BACK VOLUMES**

Back volumes of journals have been neatly bounded and categorized under their respective subjects for reference. They are very much helpful for preparing project works

## **DIGITAL LIBRARY**

The Digital resources are grouped in one place and more than 560 CDs are categorized as Journals CDs, Educational CDs, and Book CDs. The students allowed using them with the help of computers. The Digital Library provides online resources for interested students in Computer Assisted Learning.

## **INSTITUTIONAL MEMBERSHIP**

The college is an institutional member of the British Council Library, Chennai to facilitate the staff and students to borrow books, journals and educational Audio - Videos CDs.