Govt. Model Engineering College, Kochi

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SILVER JUBILEE YEAR 2014 — GOVT. MODEL ENGINEERING COLLEGE, KOCHI — 1989 2014 — 25 years

It is indeed very heartening to see an initiative from the students, that would benefit both staff and students in a lucid manner. I hope to see this effort help students take a step towards becoming a true engineer.

- The Principal

terminal

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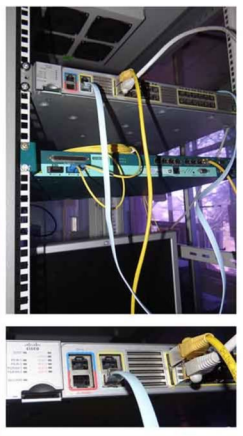
Issue 1

Ultra Low Distortion Function Generator

The Stanford Research Systems (SRS) DS360 Ultra-Low Distortion Function Generator is one of the first the world has ever seen. Using precision digitally synthesized source, it provides precise frequency control, sine, two tone, square wave, noise waveforms and computer control capability, with a distortion as low as -100 dBc. Do not miss this at the Test Lab of EC Department.

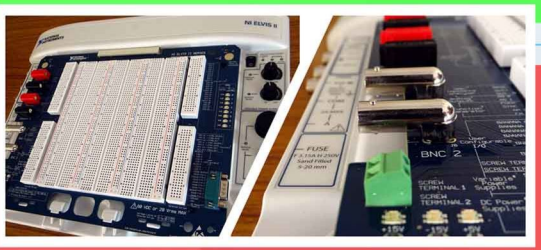
Blades Servers

The Dual Processor Industry Standard Blade Server containing 4 Server Blades is set up in the Computer Centre 1. These cost efficient, slim and less power-consuming servers are a hit for high-performance computing. With blade servers separate operating systems and applications can co-exist on one server and the users of the system are able to access more memory and processing power as their workload demands it.



NI LabVIEW

Short for National Instruments Laboratory Virtual Instrument Engineering Workbench, NI LabVIEW is a system-design platform and development environment for visual programming language. Using LabVIEW, you can create the exact virtual instrument you need, when you need it, at a fraction of the cost and when your needs change, you can modify your virtual instrument in just moments. It is a powerful tool found in the Microprocessor Lab.



The CS Staff room houses some of the ancestors of our modern day gadgets such as the Magnetic Tape Recorder, Ribbon Printer and a Punch Card Reader.

"Change the way you look at things and the things you look at change."

CATIA 5 & 6

CATIA (Computer Aided Three-dimensional Interactive Application) is a multi-platform CAD/CAM/CAE commercial software suite developed by the French company Dassault Systèmes. (Yeah you heard that right - developed by the same company whose subsidiary develops fighter jets!) CATIA is not to be mistaken with some ordinary CAD software. Costing Rs 4.5 lakhs for 5 installations (in the new Mechanical lab), it is one of the most advanced softwares in our college.

TMT - TreadMill Test

The Treadmill stress test is capable of accurately diagnosing coronary artery disease in approximately two thirds of the patients. The patient's heart rate and blood pressure are recorded at rest. Sticky electrodes are attached to the chest, shoulders and hips and connected to the EKG portion of the Stress test machine. A 12-lead EKG is recorded on paper. Each lead of the EKG represents a different portion of the heart. This rare equipment can be found under the Biomedical Department in our college.

CUDA™ GPU Lab

The GPU is a big fat processor, but it is programmable unlike a regular CPU that has predetermined areas for certain functions. CUDA is a parallel computing platform and programming model, created by NVIDIA, that enables dramatic increases in computing performance by harnessing the power of the GPU. A CUDA core can be programmed to do almost any type of program. Our college is one of the only colleges in Kerala to have Labs with CUDA.

All video lectures under the NPTEL (National Programme on Technology Enhanced Learning) are available under the address 192.168.0.12.

To gain access to the highlighted address you will have to register under the college wifi.

11kV substation

Our college houses an exclusive 11 kV substation which, coupled with a 3 phase transformer and all corresponding main and sub switch boards takes care of all the power requirements of the various different equipments in and around us! Our institution is a High Tension user and power backup is provided with the help of a powerfui Diesel Generator. The Electrical Department manages all the power requirements of our institution.

Solar Photovoltaic Training Kit

Solar energy is neat, clean and of course, not to mention, completely free of cost. The Solar Photovoltaic Training Kit consists of Monocrystalline photovoltaic panel which is capable of taking a whole plethora of measurements such as : Amount of light falling on the panel, Current/Voltage produced etc. Located where it's easiest to tap Solar Energy (i.e. Roof) it serves as an invaluable tool to the Mech Dept.

P.S : Mono crystalline panel means it is constructed using one single crystal, cut from ingots. This gives the solar panel a uniform appearance across the entire module as opposed to Polycrystalline modules composed of a number of different crystals, fused together to make a single cell.

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