Zealtech Workbench - AL
Optimised Lab Infrastructure for effective learning...

**Microprocessor
Microcontroller
DSP
FPGA / VLSI**

Fully equipped lab infrastructure
OS/RTOS - Assembly and C code
Content for instructors and students
Meets and exceeds curriculum requirements
Support for mini projects in-house
Better control over upgrades and management
Cost Effective – Lower TCO
Electronics focus – special interfaces
Tech+ - Workshops for students

Zealtech Workbench AL is a total solution that is unmatched. Take a look at the benefits...
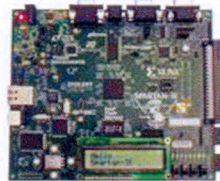
Zealtech Workbench AL
(Advance Learning)

A versatile, effective and flexible lab infrastructure to master Microprocessor, Microcontroller, DSP and VLSI

OS / RTOS
Assembler / C Code

Assembly code is specific to processor whereas the C code is portable to different hardware kits which changes from time to time.
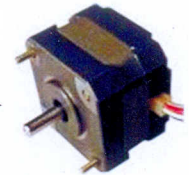
Trainer KIT

8085
8086
8051
ARM
POWER PC
FPGA
DSP

Interface Unit

Stepper Motor Interface
DC Motor Interface
Temperature Controller
Relay unit
Pressure Sensor Module
Flow Sensor Module
ADC/DAC Interface unit
Traffic Light Interface Unit

Peripheral

Stepper Motor
DC Motor
Temperature Sensor
Flow Sensor
Input & Output

Zealtech Workench AL is an innovative lab infrastructure to practice and learn concepts

Content
Content that is delivered, forms the core of the Zealtech Workbench AL lab solution. The content for the instructor and students is developed with great care and verified by learned professors to ensure authenticity.

Mini Projects
Besides meeting the curriculum requirements, the Zealtech workbench lab can also be effectively used by the students to do their mini projects in-house.

Better control over upgrades and management
Unlike the conventional labs, In the case of Zealtech workbench lab, the procurement gets largely streamlined, the administrator will have a better control of the lab inventory. This would help in upgrading and managing the infrastructure to suit the changes in the curriculum/syllabus from time to time.

Cost Effective – Lower TCO
The lab changes, the kits change. The interfaces, sensor, power supply and content delivery system remains the same. Just swap the kits and realize a lab. This substantially reduces the Total Cost of Ownership(TCO) of these labs.

Electronics focus – special interfaces
Typically in these labs, the students need to write code to sense, monitor, drive and control peripheral sub systems.

Whereas the code being the same, the design and construction of the electronics circuits involved in the interface unit varies with the target device specifications. The students have to understand this interface electronics circuit design than the simple assembly/C code.

Fully Equipped
In line with the Zealtech Workbench methodology, all the batches of students in the lab do the same experiment in a lab session. This offers the teachers opportunity to explain and help students learn more comprehensively.

Assembly and C code
For all the experiments for which the interfaces and sensors are ordered, we provide the sample code both in assembly and C.

Deliverables
Workcenters with power supply and PC port terminations, Kits, Interfaces and devices. Complete content for both the instructor and student. Zealtech ELS Software for content delivery, Assessment system to administer prelab and post lab tests. Online query system to build knowledgebase.

Tech+
Tech+ workshops to enhance the learning with experts from the industry and academia.