

# SECONDARY EDUCATION (1SE)



\* Center:

\* Country:

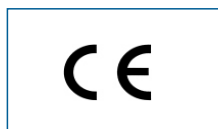
\* Date:

\* Issue:

## Quality Certificates:



ISO:9001-2000 Certificate  
of Approval. Reg. No. E204034



European Union Certificate



Certificates ISO 14001: 2004 and  
ECO-Management and Audit Scheme  
(environmental management)



Worlddidac Quality Charter  
Certificate  
Worlddidac Member

# Secondary Education

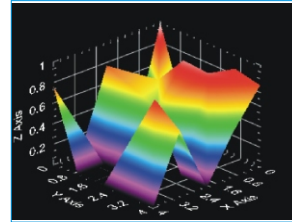
(1SE)

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# Project content

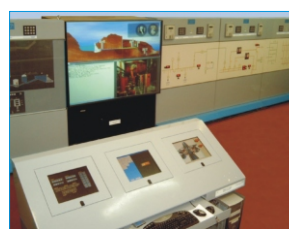
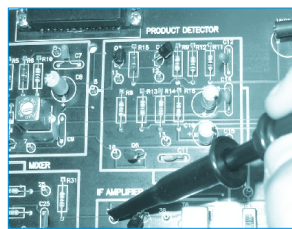
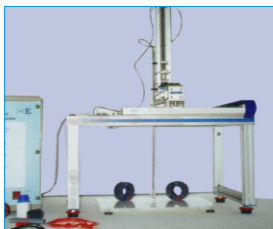
## Modern design



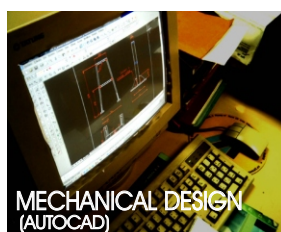
## Main blocks



## Products



## Full units design



## Technical areas included

### \*Physics:

- 3D Physics.Basic Module. (Including the Computer plus Projector with RS232 connection, for demonstration the physical results to the complete classroom at the same time (20 to 30 Students).

### \* Chemistry:

- Chemistry. Basic Module.

### - Biology:

- Biology. Basic Module.

Note: The complete technical design "is ready" at our premises

## Main target

\* To help the students:

- By "quick" understanding.
- By "clear" understanding (clear concepts).
- By "saving" time.
- By "extending" the laboratory to their homes.

\* To help the teachers:

- By "easy" teaching.
- By increasing the teaching "efficiency".
- By "reducing" teaching costs (less time consume).
- By "integrating" classroom and laboratory in the same place.

## Project options covered

This “*Secondary Education*” will cover the following:

- a) To train students at laboratory.
- b) To train trainers.
- c) To be used for training and update educators in current teaching technologies.

## Project conditions

The "Secondary Education" includes the following technical and commercial conditions:

a) Technical conditions:

- Laboratories adaptation.
- Installation of all units supplied.
- Starting up for all units.
- Training about the exercises to be done with any unit.
- Teacher training related with the teaching unit and the teaching techniques used.
- Technology transfer.

b) Commercial conditions:

- Packing.
- Financing Charges.
- C.I.F. Charges.

c) Other conditions:

- 8 Manuals for each teaching equipment:
  - . Required services manual.
  - . Assembly and installation manual.
  - . Interface and software/control console manual.
  - . Set in operation manual.
  - . Safety norms manual.
  - . Practices manual.
  - . Maintenance manual.
  - . Calibration manual.



# TEACHING TECHNIQUES USED

## 3D. EDIBON THREE DIMENSIONS SYSTEM



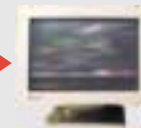
Unit



Interface



Data acquisition board



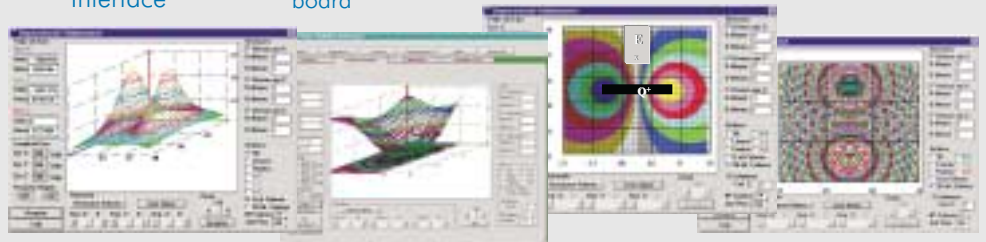
Software

Software included:

- Control
- Data Acquisition
- Data Management

Used for:

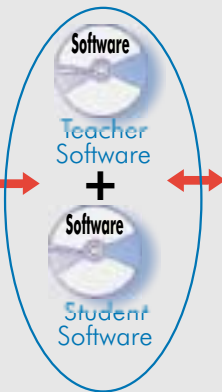
**Physics ( Magnetic fields, Electrical fields, Mechanics, Acoustics, Optics, Thermodynamics and Fluid Mechanics)**



## CAI. COMPUTER AIDED INSTRUCTION SYSTEM

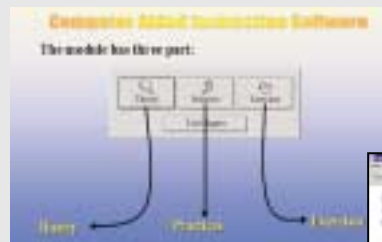


Unit



Used for:

**Basic Electronics and Electricity. Communications. Basic Mechanics. Basic Fluid Mechanics.**



## EDAS. EDIBON DATA ACQUISITION SYSTEM



Unit



Interface



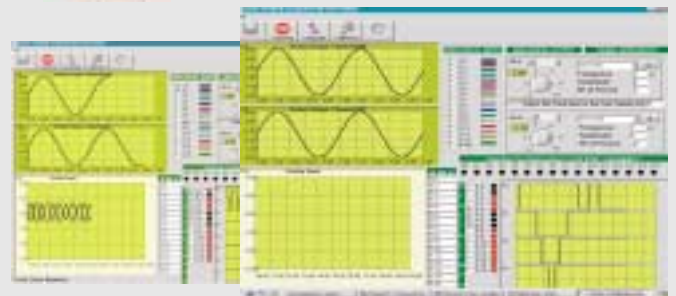
Data acquisition board



Data Acquisition Software

Used for:

**Basic Electronics. Communications. Electricity.**



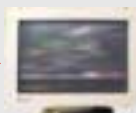
## RTC. EDIBON SYSTEM FOR HIGH ELECTRONICS (Real time control)



Unit



Data acquisition board

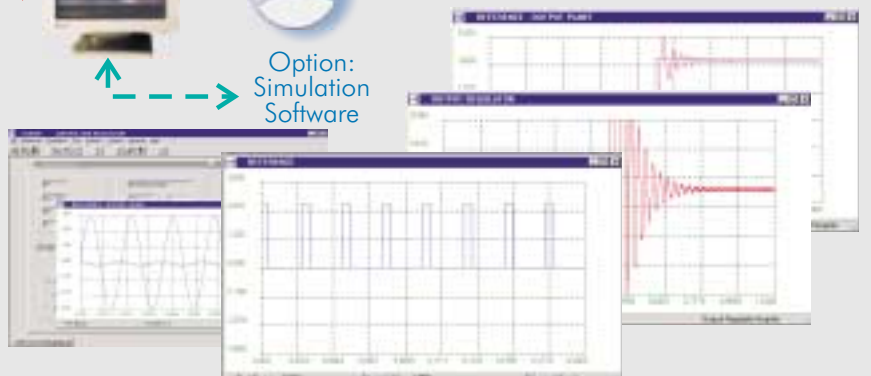


Control Software

Option: Simulation Software

Used for:

**High Tech Electronics (Control Electronics, Digital Electronics and Industrial Electronics).**





## HYBRID. EDIBON TEACHING HYBRID SYSTEM (ENERGY)

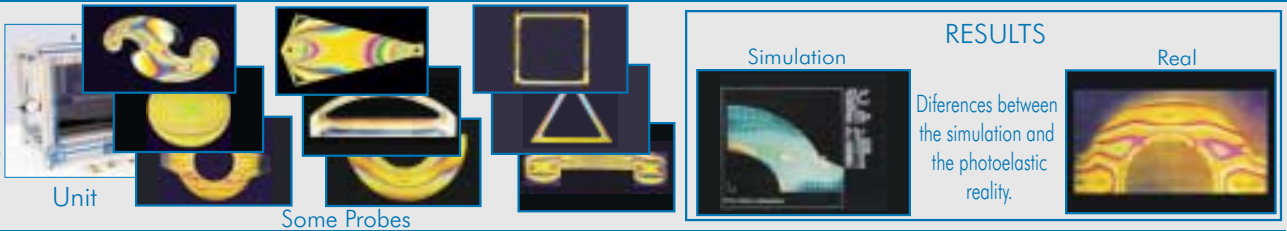
**EDIBON PATENT**

Used for:  
**Energy Power Plants.**



## PHOTOELASTICITY

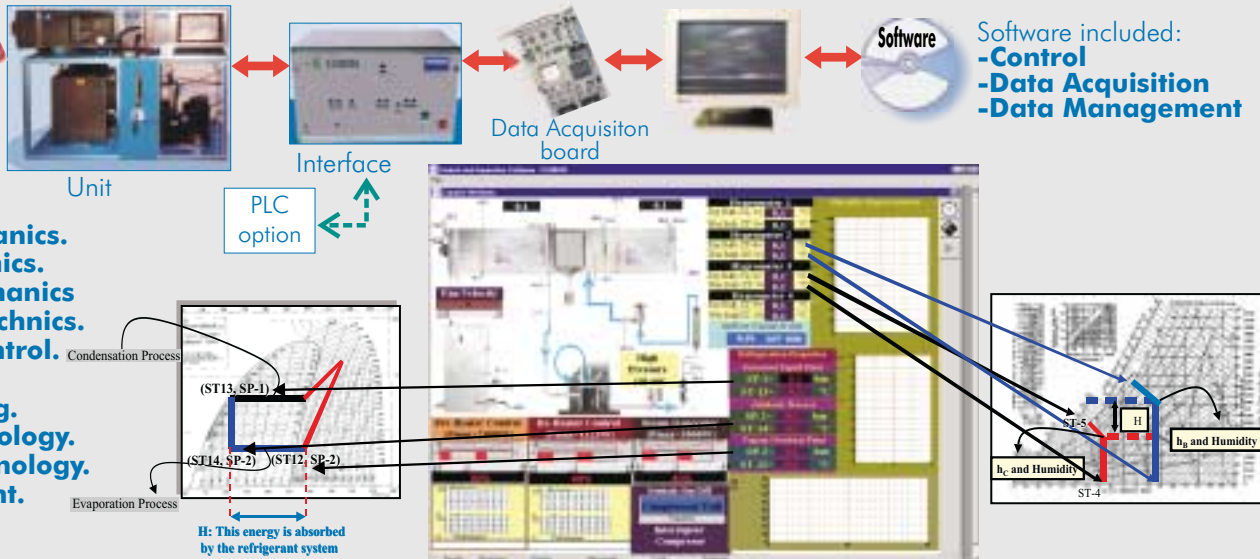
Used for:  
**Strength of Materials.**



## SACED. EDIBON COMPUTER CONTROL SYSTEM: Control+Data Acquisition+Data Management

**EDIBON PATENT**

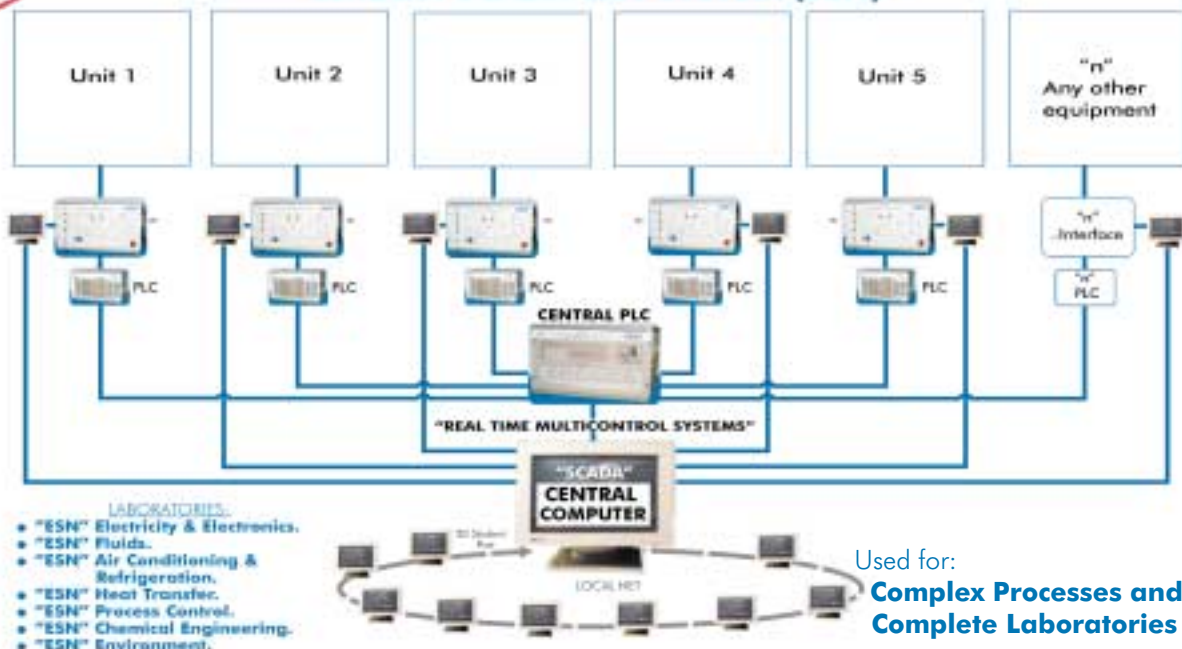
Used for:  
**Fluid Mechanics.  
Aerodynamics.  
Thermodynamics & Thermotechnics.  
Process Control.  
Chemical Engineering.  
Food Technology.  
Water Technology.  
Environment.**



## ESN. EDIBON SCADA-NET SYSTEM

**EDIBON PATENT**

### EDIBON SCADA-NET SYSTEM (ESN)



Used for:  
**Complex Processes and Complete Laboratories**