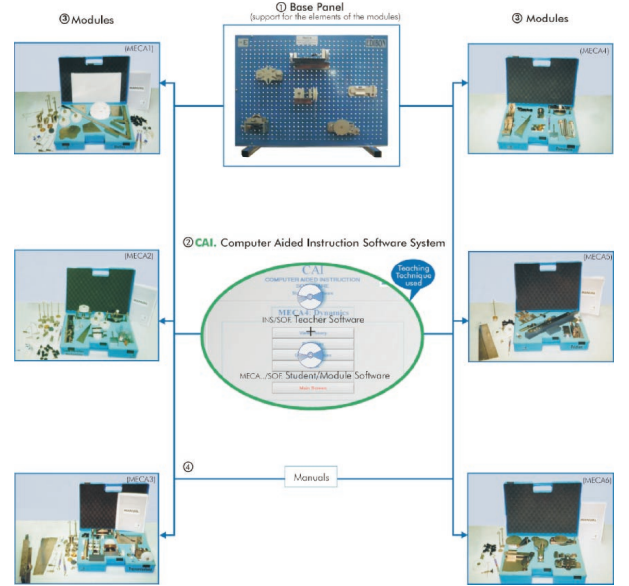
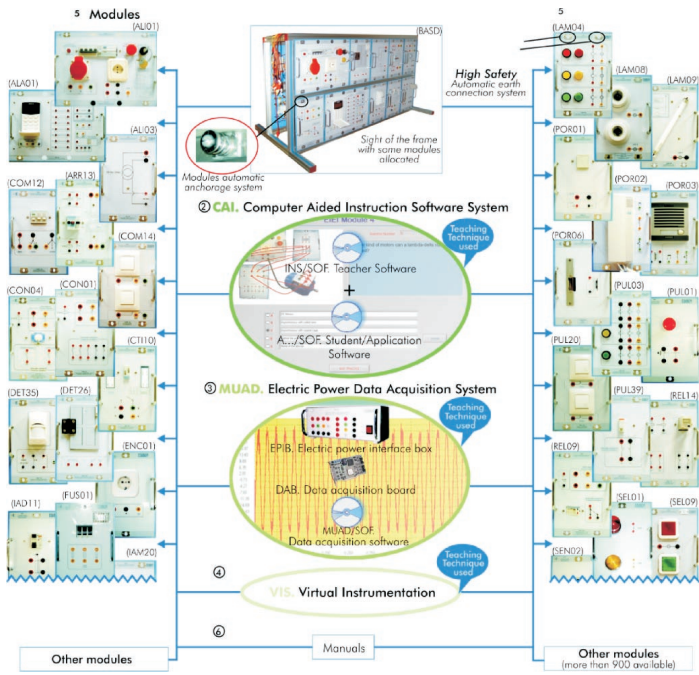
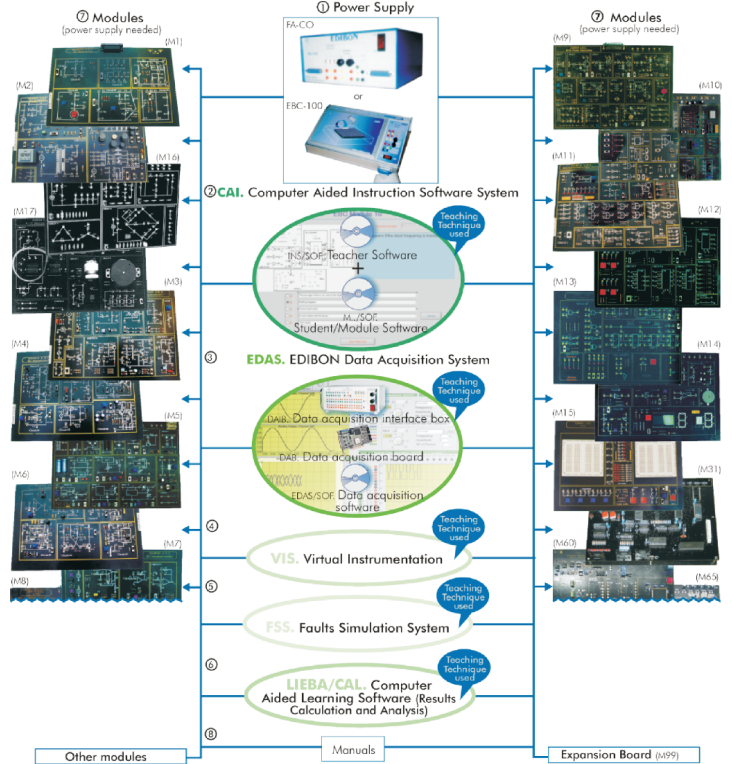
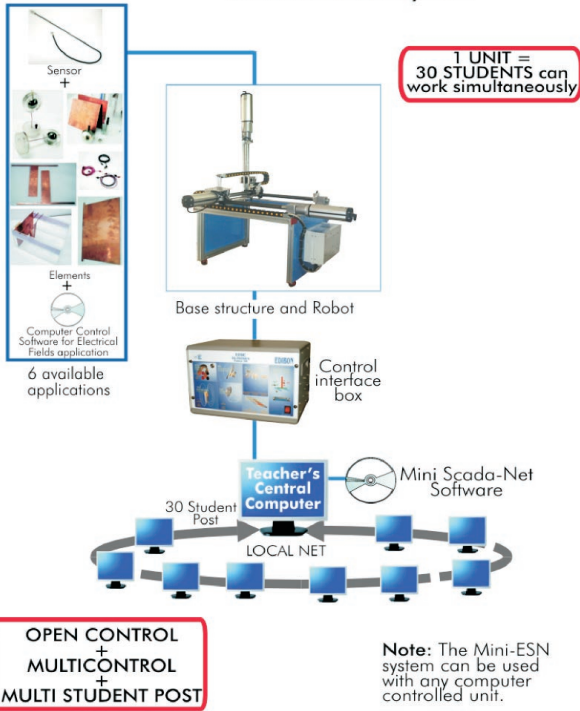


ADVANCED PHYSICS LABORATORY (1AD)

Mini ESN. Multipost EDIBON Mini Scada-Net System



* Center:

* Country:

* Date:

* Issue:

Quality Certificates:



Advanced Physics Laboratory

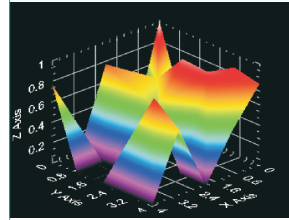
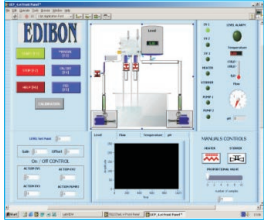
(1AD)

Index

- Project content.
- Technical areas included.
- Economical Proposal.
- Classroom and Laboratory Lay Out (example)
- Main target.
- Project options covered.
- Project conditions.
- Teaching techniques used.

Project content

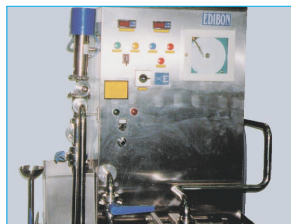
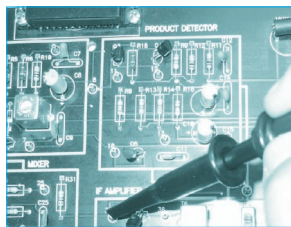
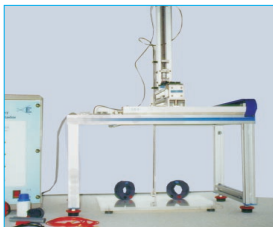
Modern design



Main blocks



Products



Full units design



Technical areas included

- * Physics, Chemistry and Biology.
- * Communications.
- * Electricity.
- * Energy.
- * Mechanics and Materials.
- * Fluid Mechanics & Aerodynamics.
- * Thermodynamics & Thermotechnics.
- * Process Control.
- * Chemical Engineering.
- * Food and Water Technologies.
- * Complements, instruments and tools.

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

Economical Proposal

Teaching Units:

"Priority 1"

0100 Physics, Chemistry and Biology

0110: 3D Physics Basic Module
0111: 3D Physics (MINI-ESN) Medium Module
0112: Physics Module Advanced Module

"Priority 2"

0300 Communications

0321-310/10S: Analog Communications (10 CAI + CAL)

0400 Electricity

0433-430/10S: Industrial Electric Installations (10 CAI + CAL)
0433-431/10S: Industrial Electric Installations (10 CAI + CAL)

0700 Mechanics and Materials

0730: Foundry Basic Module

0800 Fluid Mechanics & Aerodynamics

0813-810/10S: Elementary Fluid Mechanics (10 CAI + CAL)
0830/10S: Pumps Basic Module (10 CAI + CAL)

0900 Thermodynamics & Thermotechnics

0910/10S: Refrigeration Basic Module (10 CAI + CAL)
0950/10S: Heat Transfer Basic Module (10 CAI + CAL)

1000 Process Control

1010: Process Control Basic Module

1100 Chemical Engineering

1110/10S: Chemical Engineering Basic Module (10 CAI + CAL)
1100/ESN: EDIBON Scada-Net for Thermodynamics, Process Control and Chemical Engineering Units

"Priority 3"

0300 Communications

0321-320/10S: Digital Communications (10 CAI + CAL)

0400 Electricity

0453-450/10S: Energy Installations (10 CAI + CAL)
0453-451/10S: Energy Installations (10 CAI + CAL)

0500 Energy

0530/10S: Basic Renewable Energies (10 CAI + CAL)

0700 Mechanics and Materials

0731: Foundry. Medium Module
0750: Photoelasticity. Basic Module

0800 Fluid Mechanics & Aerodynamics

0813-811/10S: Elementary Fluid Mechanics (10 CAI + CAL)

0900 Thermodynamics & Thermotechnics

0920/10S: Heat Pumps. Basic Module (10 CAI + CAL)
0953/10S: Heat Exchange. Basic Module (10 CAI + CAL)

1200 Food and Water Technologies

1210: Elementary Food Technology Basic Module

Complements, Instruments and Tools:

5100 Complements, Instruments and Tools

5110-1: Cupboard & Shelves Module
5120-10: Computer Module
5122: Teaching Aids Module
5124: Complete Health & Safety
5140-1: Mechanical Toolkit Module
5142-1: Electricity Toolkit Module
5143-20: Electronics Toolkit Module

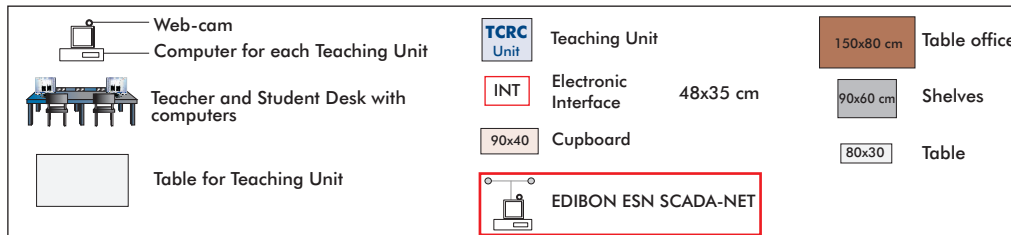
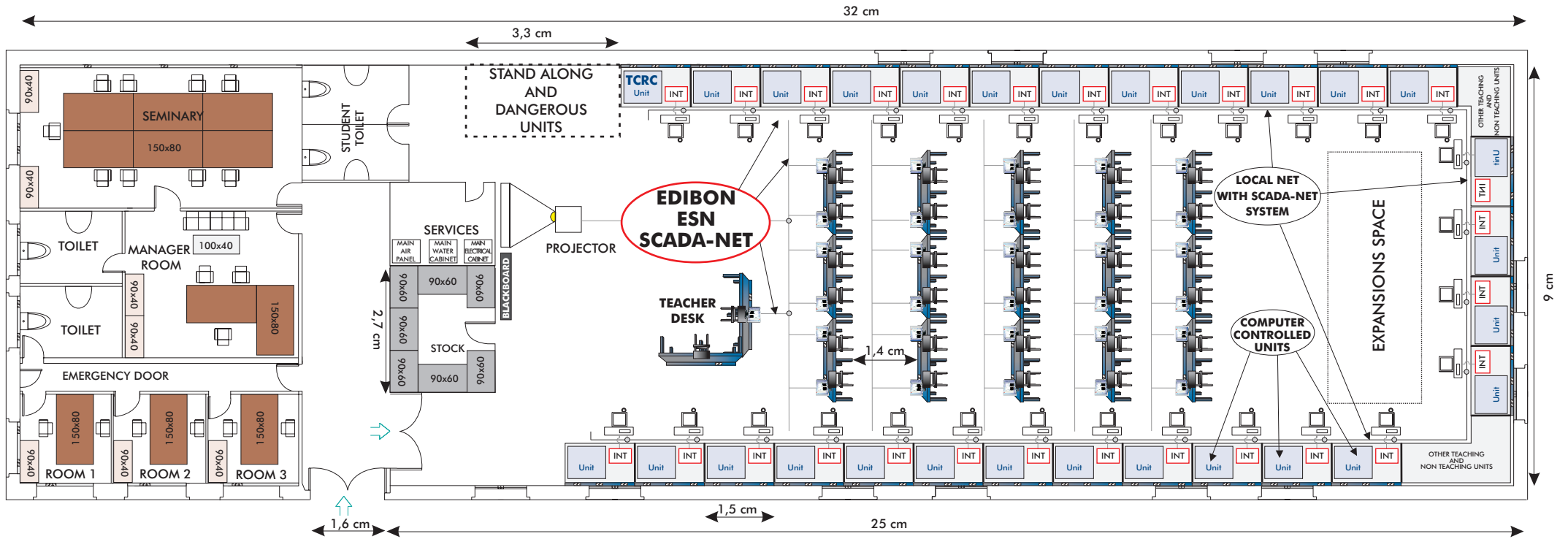
Services:

- * Furnitures:
- * Electrical, Water and Air Installation and others laboratory services
- * Installation of all units supplied, Starting up, Training, Teacher Training and Technology Transfer

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

Classroom and Laboratory Lay Out (Example)

ADVANCED PHYSICS LABORATORY (1AD)



E: 1:100

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 “*Advance Physics Labortory*” 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 “*Advanced Physics Laboratory*” 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:

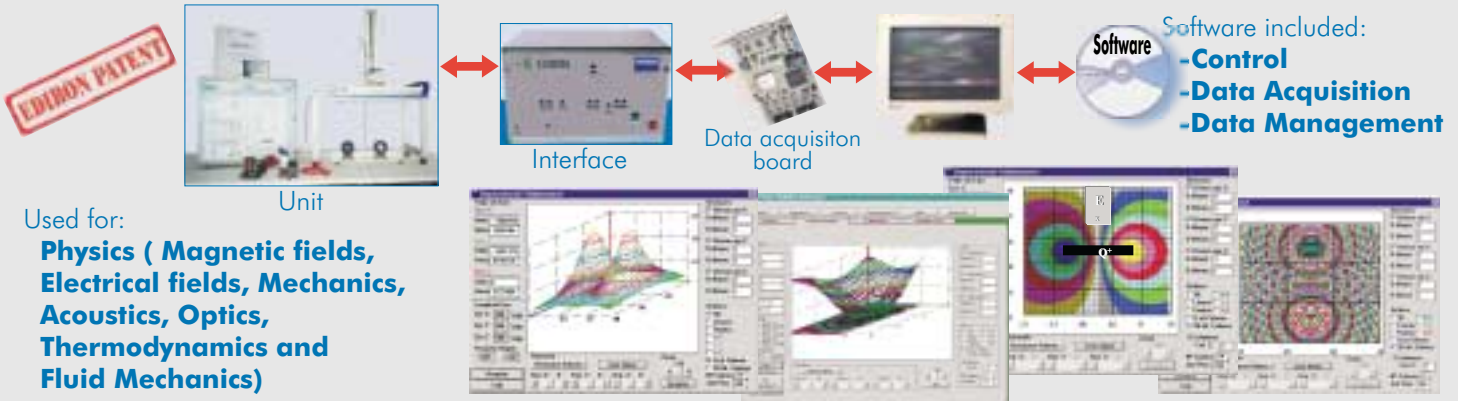
- Packing.
- Financing Charges.
- C.I.F. Charges.

c) Other conditions:

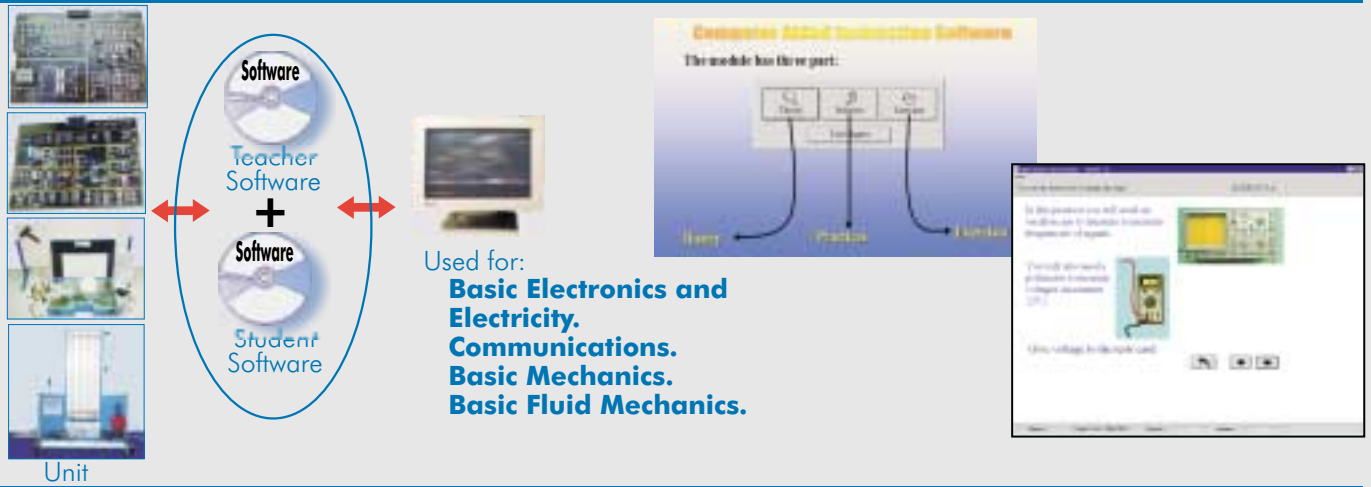
- 8 Manuals for each teaching equipment:
 - . Required services manual.
 - . Assembly and installation manual.
 - . Interface and software/control console manual.
 - . Set in operation manual.
 - . Safety norms manual.
 - . Practices manual.
 - . Maintenance manual.
 - . Calibration manual.

TEACHING TECHNIQUES USED

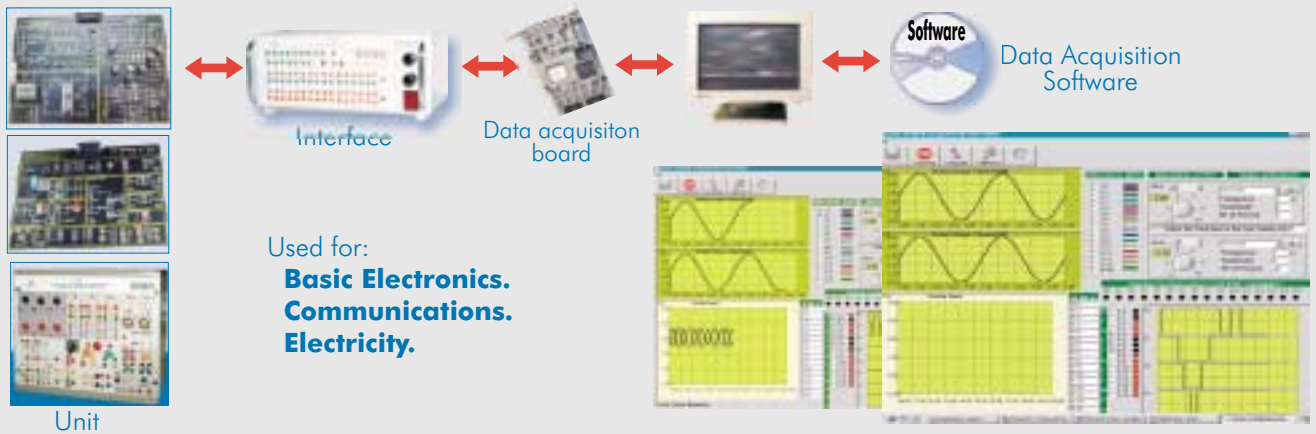
3D. EDIBON THREE DIMENSIONS SYSTEM



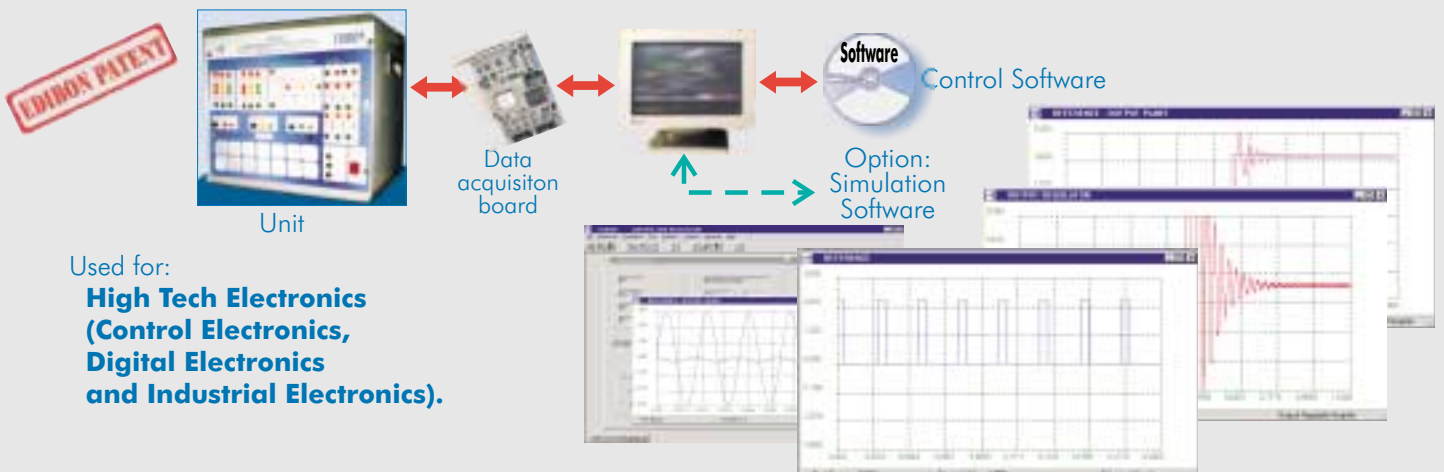
CAI. COMPUTER AIDED INSTRUCTION SYSTEM



EDAS. EDIBON DATA ACQUISITION SYSTEM



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



HYBRID. EDIBON TEACHING HYBRID SYSTEM (ENERGY)

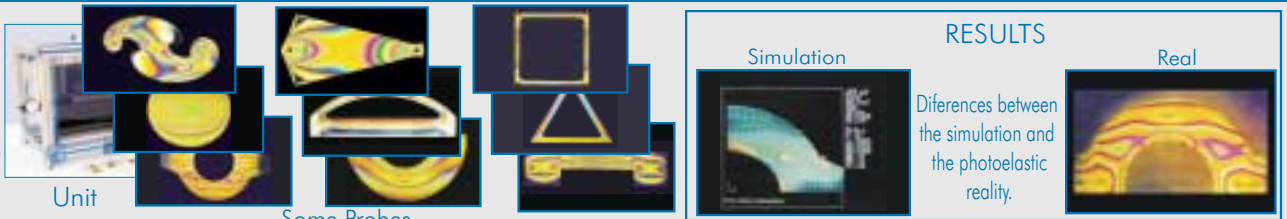
EDIBON PATENT

Used for:
Energy Power Plants.



PHOTOELASTICITY

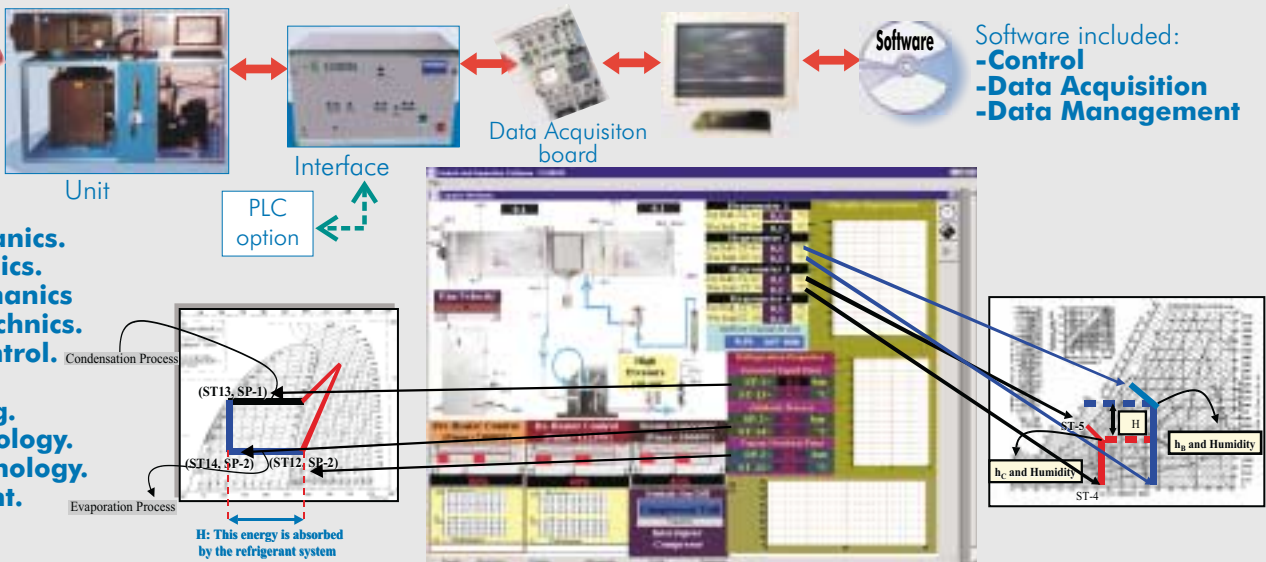
Used for:
Strength of Materials.



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

EDIBON PATENT

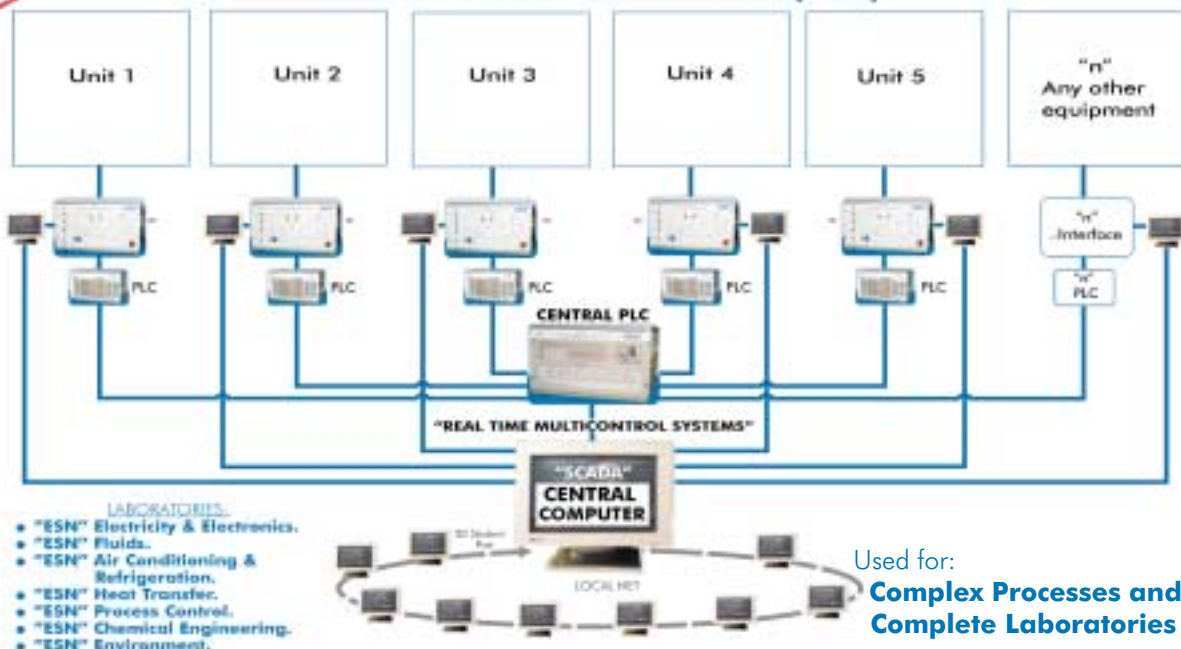
Used for:
**Fluid Mechanics.
Aerodynamics.
Thermodynamics & Thermotechnics.
Process Control.
Chemical Engineering.
Food Technology.
Water Technology.
Environment.**



ESN. EDIBON SCADA-NET SYSTEM

EDIBON PATENT

EDIBON SCADA-NET SYSTEM (ESN)



Used for:
Complex Processes and Complete Laboratories