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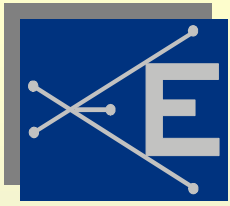
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## Software Description (B)

# CAI.

# Computer Aided Instruction System (C.A.I.)



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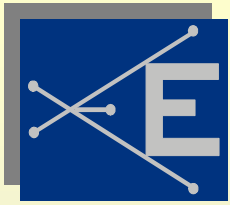
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## Computer Aided Instruction Software Introduction

Present technology nowadays requires necessary knowledge of **ELECTRONICS** and **ELECTRICITY** in most areas.

**EDIBON, S.A.** has developing on Electronics and Electricity, Communications, Mechanics and Fluid Mechanics Teaching System, capable of covering different levels of difficulty.

It is based on a series of self-teaching modules, each one referring to a specific area for analogy and digital electronics or different aspect in fluid mechanics.



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## CAI.

# Computer Aided Instruction System

This System has two main parts

**Classroom Management Software  
(for Teacher), Called Instructor**

( This software is the same for Electronics, Electricity,  
Communications, Mechanics and Fluid Mechanics Areas )

+

**Computer Aided Instruction Software  
(for Student), applied to**

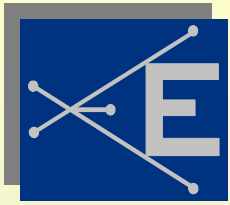
Electronics

Electricity

Communications

Mechanics

Fluid Mechanics



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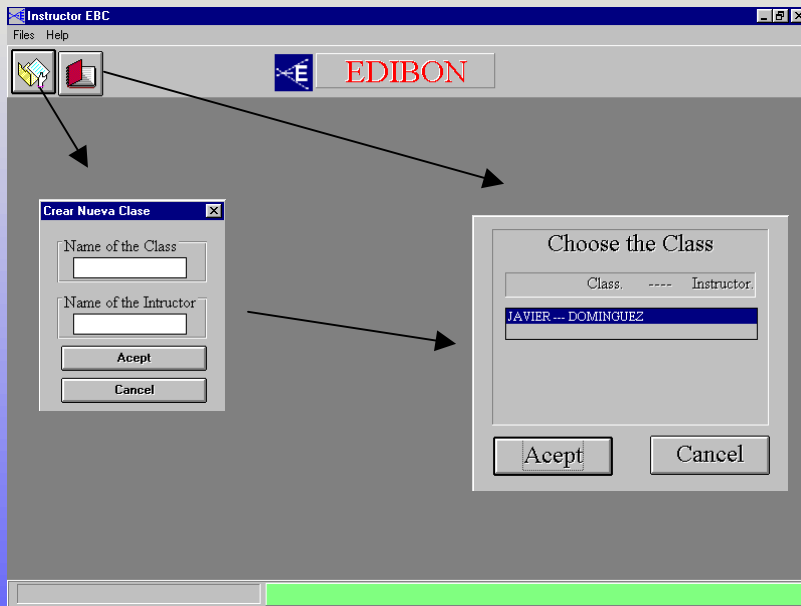
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## Computer Aided Instruction Software

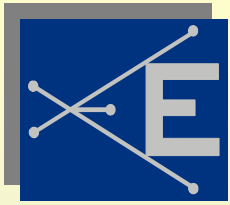
### The teacher Software: Instructor



This software has been developed to work with many class and with different teacher.

The teacher create the class; selecting the NAME OF THE CLASS and the NAME OF THE INSTRUCTOR.

When the class is created, the teacher can choose the class and the instructor to open it.



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## Computer Aided Instruction Software

The teacher introduces the student's data and creates the disk with password for each student.

You have a complete database for all students

Student's Data

Nombre / Apellidos  
Name: Eva  
Surname: Guerrero Sanchez

Address  
Address:   
Locality:   
City:   
Postal District:  Tfn.:

Accept Cancel

Password or Number Identification

Make File

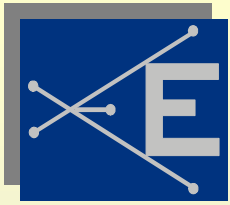
Select the unit in which you want to create the student file

The identifying is:1001

Unit: a:

Accept Cancel

All students have a disk in which is stored all information about the obtained result in the practice and exercises of the different chapters, modules and areas.



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## Computer Aided Instruction Software

Instructor EBC

Class Students Module Update

Module:- Chapter:-

*Student of the Class*

	Name	Surname	Module	Chapter	Questions	N°Answers	Exercises	N°Exercises	Updated
1	Eva	Guerrero	12	1	1 de 4	5	0 de 0	4	30/04/2000
2	juan	fernandez	---	---	---	---	---	---	---

Name of Student

Number of the carried out Module

Information about the chapter

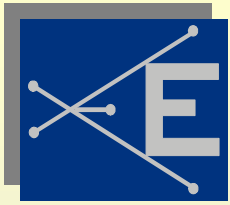
Update

List of the student of the class.

ClassJAVIER.Instructor: : DOMINGUEZ

Different options are allowed to analyze the results of all students.

With this instructor software, the teacher has all information about the carried out modules, chapters, exercises, etc.



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## Computer Aided Instruction Software

For each student, you have:

Statistical &  
Comparative study

Complete report for each student,  
result in each module, in each practice  
and in each exercises

**Información del Alumno**  
Eva Guerrero

Chapter / Module: **Mod: 12 Cap: 1**

Statistics / Comparative

Grade vs CHAPTERS

Question in Practices:  
Answers right: 1  
Fulfilled Answers: 4

Question in Exercises:  
Answers Right: 0  
Fulfilled Answers: 0

Total Answers in Practices: 5  
Total Answers in Exercises: 4

**Student Class**

**For specify Module or Chapter**

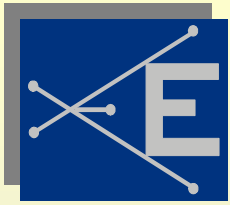
**Informe del alumno.**  
Módulo:2 Eva Guerrero

Module	Chapter	Practices	Exercises
2	1	6 de 16	1 de 5
2	2	0 de 8	4 de 6
2	3	3 de 10	1 de 4
12	1	1 de 4	0 de 0

Module	Chapter	Practices	Exercises	Module / Chapter
2	1	6 de 16(16).37%	1 de 5(5).20%	37%:Insuficiente
2	2	0 de 8(8).0%	4 de 6(6).66%	0%:
2	3	3 de 10(10).30%	1 de 4(4).25%	30%:Insuficiente

**And finally, the grade for this student  
in each chapter of one selected module**



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## Computer Aided Instruction Software

At the same way, the teacher can obtain the complete report of the class, module by module.

The screenshot displays two windows from the EDIBON software. The top window, titled 'Report of the class', shows a table of student performance for 'Module2'. The table has columns for 'Cap 1' through 'Cap 6' and rows for individual students and the class average. The bottom window, titled 'Visualization Module/ Chapter', shows a tree view of the course content with 'Module / Chapter' selected. A yellow text box with arrows points to the 'Average of the Class' row in the table and the 'Module / Chapter' dialog.

	Cap 1	Cap 2	Cap 3	Cap 4	Cap 5	Cap 6
Eva Guerrero	6 de 16,16(37%)	0 de 8,(0)0%	3 de 10,(10)30%	--	--	--
Average of the Class	37% -1-	--	30% -1-	--	--	--

Visualization Module/ Chapter

Module / Chapter

- ebc- 1. Direct Current Circuit
  - Cap 1. Measurement Instrument
  - Cap 2. Law of Ohm
  - Cap 3. Resistances: Characteristics and types
  - Cap 4. Resistances Assoc. and Wheatstone bridge
  - Cap 5. Law of Kirchoff
- ebc- 2. Alternating Current Circuit
  - Cap 1. Alternating Signal. Characteristics
  - Cap 2. Behavior of condensers and coil in A.C.
  - Cap 3. Capacitive and inductive circuits. Basic Theorems
  - Cap 4. RCL Circuits and Filters
  - Cap 5. Resonance
  - Cap 6. Transformer
- ebc- 3. Semiconductors 1
- ebc- 4. Semiconductors 2
- ebc- 5. Supply sources

Accept Cancel

In this figure, you can see the obtained result by different people for one module.

Finally, the teacher have the grade for the class chapter to chapter for each module



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## Computer Aided Instruction Software

Student Software: Each student have one identification number.

A screenshot of a software dialog box with a light gray background. It contains a label 'Identification Number:' followed by a text input field containing the number '0000'. Below the input field are two buttons: 'Accept' on the left and 'Cancel' on the right.

**This Password or identification Number is given by Teacher Software. All student have one identification number. When the student make the practices or exercises associated with one module, all results are stored in the student associated disk.**



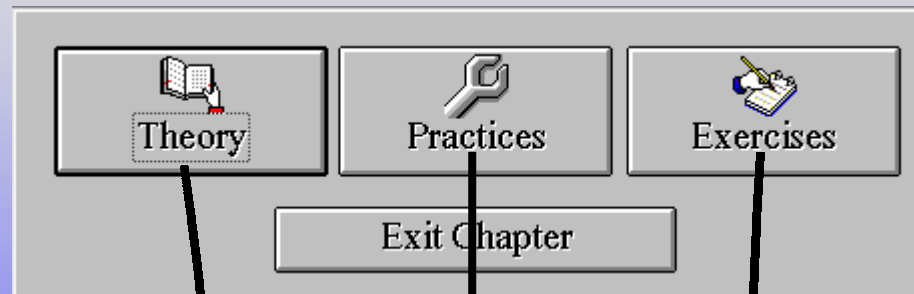
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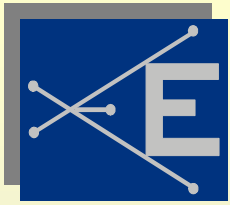
The module has three part:



**Theory**

**Practices**

**Exercises**



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## **Computer Aided Instruction Software**

**The Instructor Software is the same for specific area (Electronics, Electricity, Communucations, Mechanics and Fluid Mechanics)**

**But the student Software is Different for each area. In the following pages, We show some examples applied to:**

**Electronics**

**Electricity**

**Communications**

**Mechanics**

**Mechanics Fluid**