

2.-ELECTRONICS

2.1. POWER SUPPLIES, MEASUREMENT EQUIPMENT AND ACCESSORIES



LIEBA
Basic Electronics and Electricity Laboratory

More than **34 modules** allow the student to **learn all the basic concepts** of **electronics** and **electricity**

- | | |
|--|--|
| N-M1. Direct Current (DC) Circuits Module. | N-M13. Basic Sequential Circuits Module. |
| N-M2. Alternating Current (AC) Circuits Module. | N-M3. Semiconductors I Module. |
| N-M16. Electric Networks Module. | N-M4. Semiconductors II Module. |
| N-M17. Electromagnetism Module. | N-M14. Optoelectronics Module. |
| N-M18. Three-phase Circuits Module. | M44. Applications of Light . |
| N-M6. Oscillators Module. | M45. Linear Position and Force . |
| N-M7. Operational Amplifiers Module. | M46. Environmental Measurements. |
| N-M8. Filters Module. | M47. Rotational Speed & Position Control . |
| N-M60. Analog/Digital Converters Module. | M48. Sound Measurements. |
| N-M61. Digital/Analog Converters Module. | N-M49. Applications of Temperature and Pressure Module. |
| N-M10. Digital Systems and Converters Module. | N-M9. Power Electronics Module. |
| N-M11. Digital Electronic Fundamentals Module. | N-M5. Power Supplies Module. |
| N-M12. Basic Combinational Circuits Module. | |

2.2. KITS FOR CIRCUITS ASSEMBLY



M-KITS
Basic Electronics and Electricity Assembly Kits

- N-M15. **Own Development** Module.
- M1/KIT. **Direct Current** (DC) Circuit Kit.
- M2/KIT. **Alternating Current** (AC) Circuits Kit.
- M3/KIT. **Semiconductors I** Kit.
- M4/KIT. **Semiconductors II** Kit.
- M5/KIT. **Power Supplies** Kit.
- M6/KIT. **Oscillators** Kit.
- M7/KIT. **Operational Amplifiers** Kit.
- M8/KIT. **Filters** Kit.
- M9/KIT. **Power Electronics** Kit.
- M10/KIT. **Digital Systems and Converters** Kit.
- M11/KIT. **Digital Electronic Fundamentals** Kit.
- M12/KIT. **Basic Combinational** Circuits Kit.
- M13/KIT. **Basic Sequential** Circuits Kit.
- M14/KIT. **Optoelectronics** Kit.
- M16/KIT. **Electric Networks** Kit.
- M18/KIT. **Three-phase** Circuits Kit.

2.3. THEORETICAL - PRACTICAL FUNDAMENTALS

with
EDIBON
SCADA



CADDA
Computer Controlled A/D and D/A Converters Unit

with
EDIBON
SCADA



TDS
Computer Controlled Teaching Unit for the Study of Digital Signal Processing

2.-ELECTRONICS

All these units are supplied

with
EDIBON
SCADA

2.4. INDUSTRIAL ELECTRONICS

RYC

Computer Controlled Teaching Unit for the Study of **Regulation and Control**

COMPUTER CONTROLLED TECHNOLOGY



SERIN/CC
Computer Controlled **Advanced Industrial Servosystem Unit**
(for DC Motors)



EDIBON **SCADA** System

Control Interface
included in the
unit



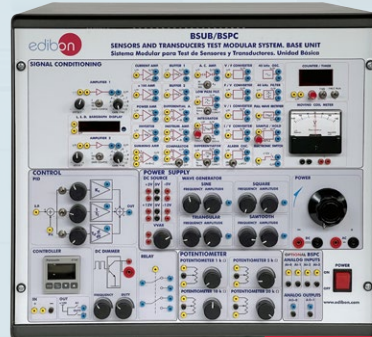
Data
Acquisition
Board



Supervisory
Software



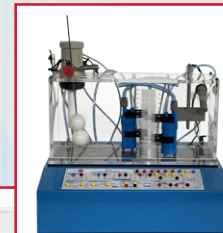
AEL-WPPIC
Computer Controlled **Wind Power Plants Application with Induction Generator**



BS

Modular System for the Study of **Sensors**

- BS1. **Vibrations** and/or **Deformations** Test Module
- BS2. **Temperature** Test Module.
- BS3. **Pressure** Test Module.
- BS4. **Flow** Test Module.
- BS5. **Ovens** Test Module.
- BS6. **Liquid level** Test Module.
- BS7. **Tachometer** Test Module.
- BS8. **Proximity** Test Module.
- BS9. **Pneumatic** Test Module.
- BS10. **Light** Test Module.



2.5. AUTOMOTIVE ELECTRONICS

AEL-EHVC
Computer
Controlled
**Hybrid And
Electric
Vehicles**
Application



AV-HYB
Computer Controlled
**Automotive Hybrid
Simulation Unit**