

# Lab 1 - BASIC ELECTRICITY



This laboratory includes various modules to experiment circuits and principles commonly recurrent in the field of Basic Electricity. They are recommended for students attending any subsequent electrical and electronics specialties.

Great attention is given to usability characteristics and to ensure maximum friendliness and safety even when used by inexperienced users such as first-time students.

Each module is provided with a user manual that explains its characteristics and use.

## FURNITURE, METERS & ACCESSORIES

A general use furniture, meters, power supplies & accessories have been selected as the most appropriate for smooth experiment execution in all laboratories.

## TRAINING STATIONS LIST

|     |                                         |
|-----|-----------------------------------------|
| 1.1 | FUNDAMENTALS OF ELECTRICITY             |
| 1AS | COLLECTION OF LABORATORY POWER SUPPLIES |
| 1AM | COLLECTION OF LABORATORY METERS         |
| 1AA | COLLECTION OF LABORATORY ACCESSORIES    |
| 1AF | COLLECTION LABORATORY FURNITURE         |

Products listed below are only given as indicative examples as constantly updated.

# Equipment List

| LAB<br>N°                                                                         | Item<br>N° | TITLE                                     | CODE          | Tot<br>al<br>Qty | Stud<br>WS<br>1 | Stud<br>WS<br>2 | Stud<br>WS<br>3 | Stud<br>WS<br>4 | Stud<br>WS<br>5 | Stud<br>WS<br>6 | Stud<br>WS<br>7 | Stud<br>WS<br>8 | Teach<br>WS | LAB |
|-----------------------------------------------------------------------------------|------------|-------------------------------------------|---------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------|-----|
| <b>1 BASIC ELECTRICITY LAB</b><br>For 16 to 32 students working at the same time. |            |                                           |               |                  |                 |                 |                 |                 |                 |                 |                 |                 |             |     |
| 1                                                                                 | 1          | FUNDAMENTALS OF ELECTRICITY (BASIC)       | A11B          |                  |                 |                 |                 |                 |                 |                 |                 |                 |             |     |
| 1                                                                                 | 1          | 1 BASIC ELECTRICITY TRAINER               | C1105         | 8                | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |             |     |
| 1                                                                                 | 1          | 2 BASIC ELECTROMAGNETISM TRAINER          | C1103         | 4                | 1               | 1               |                 |                 | 1               | 1               |                 |                 |             |     |
| 1                                                                                 | 1          | 3 ANALOGUE ELECTRONICS TRAINER            | B1138 A2      | 4                |                 |                 | 1               | 1               |                 |                 | 1               | 1               |             |     |
|                                                                                   |            |                                           |               |                  |                 |                 |                 |                 |                 |                 |                 |                 |             |     |
| 1                                                                                 | 2          | FUNDAMENTALS OF ELECTRICITY (EXPANSION)   | A11E          |                  |                 |                 |                 |                 |                 |                 |                 |                 |             |     |
| 1                                                                                 | 2          | 1 BASIC ELECTRICITY TRAINER THREE PHASE   | C1105T        | 2                | 1               |                 |                 |                 | 1               |                 |                 |                 |             |     |
| 1                                                                                 | 2          | 2 MAGNETIC CIRCUITS TRAINING SET          | C1150         | 2                |                 | 1               |                 |                 |                 | 1               |                 |                 |             |     |
| 1                                                                                 | 2          | 3 DIGITAL ELECTRONICS TRAINER             | B1138 D1      | 4                |                 |                 | 1               | 1               |                 |                 | 1               | 1               |             |     |
|                                                                                   |            |                                           |               |                  |                 |                 |                 |                 |                 |                 |                 |                 |             |     |
| FM COMMON USE FURNITURES (OPTIONAL)                                               |            |                                           |               |                  |                 |                 |                 |                 |                 |                 |                 |                 |             |     |
| FM                                                                                | 1          | 1 WORK TABLE                              | F1110A        | 8                | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |             |     |
| FM                                                                                | 1          | 2 MOBILE LOWER CABINET                    | F11 4146      | 8                | 1               | 1               | 1               | 1               | 1               | 1               | 1               | 1               |             |     |
| FM                                                                                | 1          | 3 STUDENT STOOL                           | F11 1718      | 24               | 3               | 3               | 3               | 3               | 3               | 3               | 3               | 3               |             |     |
| FM                                                                                | 1          | 4 TEACHER'S DESK                          | F11 2126      | 1                |                 |                 |                 |                 |                 |                 |                 |                 | 1           |     |
| FM                                                                                | 1          | 5 TEACHER'S CHAIR                         | F11 5000      | 1                |                 |                 |                 |                 |                 |                 |                 |                 | 1           |     |
| FM                                                                                | 1          | 6 CABINET FOR TOOLS & INSTRUMENTS         | F11 3310      | 4                |                 |                 |                 |                 |                 |                 |                 |                 |             | 4   |
| FM                                                                                | 1          | 7 TROLLEY                                 | F1151 R1      | 4                |                 |                 |                 |                 |                 |                 |                 |                 |             | 4   |
|                                                                                   |            |                                           |               |                  |                 |                 |                 |                 |                 |                 |                 |                 |             |     |
| FM MEASURING INSTRUMENTS, POWER SUPPLIES & ACCESSORIES                            |            |                                           |               |                  |                 |                 |                 |                 |                 |                 |                 |                 |             |     |
| FM                                                                                | 2          | 1 ANALOGUE MULTIMETER                     | AM 7080       | 4                |                 |                 |                 |                 |                 |                 |                 |                 |             | 4   |
| FM                                                                                | 2          | 2 DIGITAL MULTIMETER                      | DM Y68        | 4                |                 |                 |                 |                 |                 |                 |                 |                 |             | 4   |
| FM                                                                                | 2          | 3 ANALOGUE ELECTRICAL METERS SET          | A11 AM        | 1                |                 |                 |                 |                 |                 |                 |                 |                 |             | 1   |
| FM                                                                                | 2          | 4 DIGITAL ELECTRIC POWER MEASURING MODULE | A4750D        | 1                |                 |                 |                 |                 |                 |                 |                 |                 |             | 1   |
| FM                                                                                | 2          | 5 CABLES SET                              | A4890         | 4                |                 |                 |                 |                 |                 |                 |                 |                 |             | 4   |
| FM                                                                                | 2          | 6 DUAL TRACE OSCILLOSCOPE                 | AO HZ4318     | 2                |                 |                 |                 |                 |                 |                 |                 |                 |             | 2   |
| FM                                                                                | 2          | 7 DIGITAL MEMORY OSCILLOSCOPE             | DO UTD 2025CL | 2                |                 |                 |                 |                 |                 |                 |                 |                 |             | 2   |
| FM                                                                                | 2          | 8 FUNCTION GENERATOR WITH FREQUENCY METER | WG SP 1642B   | 2                |                 |                 |                 |                 |                 |                 |                 |                 |             | 2   |
| FM                                                                                | 2          | 9 UNIVERSAL POWER SUPPLY                  | A0245         | 1                |                 |                 |                 |                 |                 |                 |                 |                 |             | 1   |
| FM                                                                                | 2          | 10 AC DC POWER SUPPLY                     | C12 PS        | 2                |                 |                 |                 |                 |                 |                 |                 |                 |             | 2   |

Other products available for individual needs: please ask for complete catalogue.

