

Programma di Lingua Inglese

Classe 5[^] Indirizzo elettrotecnico e automazione

Module 1

Atoms and electrons
Conductors and insulators
Types of battery

Module 2

A simple circuit
Types of circuit
Ohm's Law
Measuring tools
Light bulbs

Module 3

Electricity and magnetism
The electric motor
Types of electric motors (DC motors-AC motors- Design variations)

Module 4

Methods of generating electricity
The generator
A fossil fuel power station
Nuclear reactor
Renewable energy : water, wind, sun and earth

Module 5

The distribution grid
The transformer
Edison, Tesla and the AC/DC battle
Managing the power supply
Dangers of electricity

Module 6

What is automation ?
How automation works.
The development of automation
How a robot works
Varieties and uses of robots
Robots in manufacturing