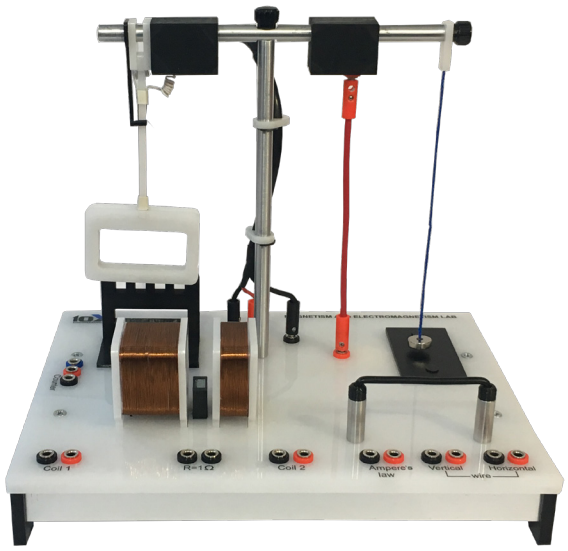
# Magnetism and Electromagnetism Lab



## Overview

The “Magnetism and Electromagnetism” lab is a portable, highly flexible educational trainer kit for studying the principles of magnetic and electromagnetic fields in main course of physics.

The lab is designed for secondary educational institutions and enables more than 10 awesome scientific experiments for investigation of electromagnetic induction lamp, transformer principles, connection between magnetic field and electric current, practice right hand and left hand rules etc.

The user-friendly and functional software enables the students to control and visualize the experiment results, export and save the measurement. The trainer kit comes with step-by- step curriculum.

## List of Labs

1. Oersted’s experiment
2. Ampere’s force law
3. Right hand rule
4. Faraday law of induction
5. Coefficient of mutual inductance
6. The study of solenoid coil with ferromagnetic core
7. The study of inductor current
8. Eddy current (Foucault currents)
9. Lenz’s law

## Features

- All in one, portable educational kit
- Easy setup and connection
- Highly visualized experiments
- User friendly graphical interface
- Comprehensive student and instructor experiment manuals and instructions

## Hardware and Software

- “Magnetism and Electromagnetism” board
- NI myDAQ connector board
- Lab Software and Curriculum
- Cables and connectors
- Specially designed controllable external power supply
- Compass
- U-shape magnets
- Line magnets
- DC external Power supply
- Suspended rectangular coil

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