

**PHYSICS 211L**  
**ELECTRICITY AND MAGNETISM LABORATORY**  
**(0.2 ; 1 credit)**

**Textbook:**Laboratory Manual  
Physics Department

**Experiments:**

1. Electric Field Mapping.
2. Basic oscilloscope operations.
3. Capacitance and dielectric constant measurements.
4. Electrical circuits.
5. Wheatstone bridge.
6. Ohmic and non-Ohmic devices.
7. RC and RL circuits
8. The ratio of  $e/m$  (Thomson's experiment).
9. Magnetic force between two parallel, current-carrying conductors.
10. Measurement of magnetic induction fields.
11. RLC circuits.

**N.B. Pre- or co-requisite: Physics 211.**

**Fall 2000**