

## List of exercises in English

### Room 52 - Modern physics I

- 57C Investigation of Hall effect (x7)
- 104 Photovoltaic effect – solar cell (x7)
- 105 X-RAY (x1)
- 106 Liquid crystal modulator (x1)

### Room 53 - Optics

- 81 Determination of radius of curvature of the lens and the wavelength of light using the Newton's rings (x7)
- 84 Determination of a wavelength using a diffraction grating (x7)

### Room 54 - Mechanics

- 1 Determination of moment of inertia of physical pendulum and verification of parallel axis theorem (x7)
- 8 Determination of viscosity of fluid by Stokes' law (x7)

### Room 65 - Thermodynamics I

- 20a Thermocouple scaling and water solidification temperature determination (x7)
- 37 The Seebeck effect investigation and the thermoelectric module application for the thermal-to-electrical energy conversion (x7)

### Room 66 - Thermodynamics II

- 29 Determination of thermal expansion coefficient and investigation of heat transfer (x7)
- 33a Measurement of surface tension: tear-off method (x2)
- 33c Measurement of surface tension: stalagmometric method (x7)

### Room 67 - Electricity and magnetism

- 44 The measurement of the dependence of resistivity of metals and semiconductors on temperature (x7)
- 53 Ohm's law for alternating current (x7)
- 54 Investigation of electromagnetic resonance phenomenon (x7)

### Room 68 - Modern physics II

- 30 Measurement of temperature using optical pyrometer (x3)
- 31 Verification of Stefan-Boltzmann's law (x1 - on request - must be reported in advance)
- 32 Determination of Stefan-Boltzmann constant (x2 - on request - must be reported in advance)
- 48 Determination of the Planck constant using electroluminescent diodes (x7)
- 107 Determination of planck's constant using planck's law of black-body radiation (x7)