

# Report format requirements Measurement and Data processing (1st semester)

## 1. General requirements

- a cover sheet with the name of the subject, the name of the student taking the measurement, the Neptun code, and the date of the measurement;
- on the next page: a brief description of the measurement, and goals, listing the instruments and input data to be used;
- **Do not supplement the measurement instructions, make a self-created document! USE THE TEMPLATE!**
- the equations must be numbered on the right-hand side of the sheet;
- equations must be created using an editor (**image format not accepted**) or hand-written on paper and photographed!
- the simulation diagrams and the axes must be readable;
- the file name of the report must be the following structure: Surname of each member of the group \_ measurement number. pdf, Example: Horváth\_Csizmadia\_meas1.pdf
- Accepted formats: pdf

## 2. Detailed content

### 1. First measurement

- The schematic of the measurement.
- Calculated results (in equation form, or by hand form in photo);
- Simulated form with Ltspice (circuit + results (DC operating point simulation));
- Measurement results
  - First measurement in table and graph form (in case both resistor);
  - Second measurement results (resistance, voltage, and current in table form).

### 2. Second measurement

- The schematic of the measurement.
- Calculated results (in equation form, or by hand form in photo);
- Simulated form with Ltspice (circuit + results (DC operating point simulation));
- Measurement results
  - First measurement results (resistance);
  - Second measurement results (voltage in table form);
  - Third measurement results (current in table form).

### 3. Third measurement

- The schematic of the measurement.
- Simulated form with Ltspice:
  - First measurement: transient simulation (voltage on the capacitor);
  - Second and third measurement: operating point simulation.
- Measurement results

- First measurement results (saved oscilloscope diagrams and oscilloscope set-up);
- Second and third measurements (measured voltage on R3).

**Deadline for uploading: 27/10/2024**

Anyone who has not been accepted the report or has an unjustified absence from the lab will have to repeat the semester!