09.11.2026

Computer Practicum - WIS-LES 2026/2027

# Instructions for the preparation of the project report

## Theme

Design and conduct experiments using your assigned Arduino microcontroller and sensor. Collect and analyze measurements to answer specific research questions.

The project is carried out in pairs. Each pair must conduct two experiments, each addressing a different research question. Each student must independently prepare a report describing one of the two experiments.

## Submission

Each student must submit an individual report through the e-classroom by the deadline specified there. Students working in pairs may share the experimental setup and collected data, but each student must prepare and write their report independently. The report must be prepared using the Microsoft Word application and submitted as a **.docx** file. Other file formats will not be accepted.

### Supplementary Files

Submit the following files through the separate Moodle assignment titled "Supplementary Files":

- Measurement data: Provide the collected data in CSV format, with appropriate column headers.
- Source code: Submit the Arduino or MicroPython source code used to perform the experiment and collect measurements (e.g., .ino or .py files).
- GenAI declaration: Submit the completed and signed *Declaration on the Use of Generative AI (GenAI)*, even if you did not use GenAI during the project.

## Report Evaluation

The report is assessed individually and contributes 30% to the final course grade. The report grade is divided into two equally weighted components:

- Document preparation and formatting (50%): Compliance with all document preparation, formatting, and structural requirements specified in these instructions.
- Experimental work, implementation, and analysis (50%): Quality of the experimental design, implementation, data collection and analysis, and the clarity and effectiveness with which the report presents and explains the work performed.

# Report Structure

The project report must be prepared in A4 portrait format.

## Title page

The title page must include the following information:

- University and Faculty
- Title of the project
- Author's name and surname, and study program
- Date of completion

Use a serif font of an appropriate size on the title page.

The title page must have the following custom margins:
Top: 5cm Bottom: 4cm Left: 3cm Right: 3cm

Insert the image from this link: https://www.swarmchestrate.eu/wp-content/uploads/2025/10/1-logo-InnoRenew-RGB-COLOR-01.png Place it in the upper right corner using these absolute position settings:

- Horizontal: Absolute position 12cm to the right of Page
- Vertical: Absolute position 1,2cm below Page

Do not include a header, footer or page number on the title page.

## Normal page margins

Use the following margins on all pages except the title page:

Top: 4cm Bottom: 3cm Left: 2,54cm Right: 2,54cm

## Header

Add the following header (change the highlighted items) to all pages except the title page:

PROJECT TITLE (ALL IN UPPERCASE)

Author name and surname, subject
University of Primorska Faculty of Mathematics, Natural Sciences and Information Technologies, current year

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Use Times New Roman, 9 pt, for the header.

## Table of contents, table of figures and page numbering

The second page must contain an automatically generated table of contents.
The third page must contain an automatically generated table of figures.
Number these two pages using uppercase Roman numerals (I, II) positioned in the bottom right corner.

All subsequent pages, starting from the Introduction, must use Arabic numerals (1, 2, 3, …), positioned in the bottom right corner. Page numbering must start at 1 on the Introduction page.

## Structure of the project report

Organize the report into the following top level sections:

1. Introduction

   Introduce the problem, explain why the measurement is interesting, and define the experiment's objectives or research questions.

2. Background and Related Work

   Present relevant background information and discuss at least three existing research papers involving similar measurements or experiments. Use Google Scholar to search for relevant scientific publications. Cite all sources appropriately, following the instructions in the "References and Citations" section.

3. Sensor and Hardware Description

   Explain what the sensor measures, how it works, its key specifications (e.g., range and accuracy), and how it is connected to the Arduino. Include at least one photo of the Arduino + sensor setup.

4. Experimental Methodology

   Describe the experimental setup, procedure, conditions, and data collection (including measurement frequency and number of measurements). Provide enough detail for someone else to repeat the experiment. Include at least one photo taken during the experiment.

5. Results and Discussion

   Present and analyze the collected data using at least one table or graph. Describe observed patterns, relate the findings to your research question, and discuss possible errors or limitations. Label graph axes and include measurement units where relevant.

6. Conclusions

   Summarize the main findings, state whether the objectives were achieved, and suggest possible improvements.

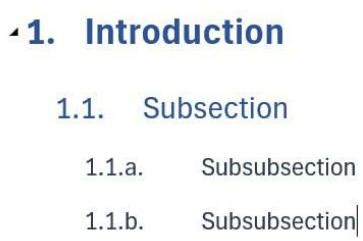
7. References

   List all cited sources, including research papers, sensor datasheets, and other technical documentation.

### *Headings*

Structure the report using Heading styles. Define at least three hierarchical heading levels, each using a sans-serif font and appropriate numbering. Make the levels visually distinguishable. Use each heading level at least once in the report.

Numbering must follow a hierarchical structure, as illustrated below:




### *Text Styling*

All pages except the title page must use a text style with the following properties:

- Font type: sans serif
- Font size: 12pt
- Line spacing: Multiple At: 1,2
- Font color: black

### *Lists*

Include at least one bulleted or numbered list in the report.

### *Images*

Include at least three images, each with a caption below it. Use Word's Insert Caption feature to create captions that can be included in the automatically generated table of figures.

### *References and Citations*

Cite the sources of important concepts, technical information, research findings, and methods discussed in your report. Always provide citations when referring to existing studies or using information obtained from external sources. For online sources (websites), always include the date on which the source was accessed in the reference entry.

Use Mendeley and the Mendeley Cite Word add-in to insert in-text citations and generate the References section. Apply the Cite Them Right (12th edition) Harvard referencing style.