

Presentation and Handout Guidelines

Data Analysis for Decision-Making (SS 2025)

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Abstract

This document outlines the requirements for successfully contributing to the course through an academic presentation. It introduces and assigns the available topics, establishes the standards for both delivery and the creation of files, and provides tips how students can effectively meet the expectations.

1 Assessment methods and criteria

Students complete this module with an academic presentation. The presentation will take place during the lecture period, with the exact dates set by the lecturer. Each presentation lasts a minimum of 10 minutes per student. Additionally, students should produce a handout outlining the key points of your presentation and the literature on which it is based. The handout should provide additional information and resources beyond what is covered in the presentation. In other words, the handout should complement the presentation. The length of the handout should be between 3 and 5 pages of text.

The presentation contributes 65% to the module grade, while the handout contributes 35%. A passing grade for this module is achieved when the overall grade is greater than or equal to 4.0.

2 Topics and dates

Table 1 lists the topics, along with the student's matriculation number and initials to identify those assigned to each topic, and the date of their presentation.

If you do not see your number on the list but have registered, please contact me as soon as possible. Note that the presentation day is an official examination day, and failure to attend will result in a grade of 5.0. Ensure that you do not miss this important date.

Table 1: Topics, students, and dates

		Matriculation number and initials
Date	Presentation topic	
05/28/2025	1. Importing Data in R: Exploring Various Packages and Their Advantages	400806611 SY

Date	Presentation topic	Matriculation number and initials
05/28/2025	2. The Importance of Summary Statistics and Techniques for Creating Them in R	400826617 GJ
06/04/2025	3. Handling Duplicates in Data: Challenges and Solutions	400889819 TB
06/04/2025	4. Benefits and Risks of Correlations in Decision Making Using R for Analysis	400381761 HF
06/11/2025	5. Conducting and Presenting Multiple Linear Regression Analysis Using R	400706062 LT
06/11/2025	6. Merging Datasets Using R	400924750 NA
06/11/2025	7. The Value of Replication Studies: Insights from Rogoff and Reinhart's 2003 Publication	400970796 CI
06/18/2025	8. Data Analysis Errors: Examples of Actual Mistakes in Scientific Publications	400828258 ZM
06/18/2025	9. Small Errors, Big Consequences: Lessons from Data Mismanagement in Business	400889526 TA
06/18/2025	10. R Control Flow Statements: Building Blocks for Automated Decision-Making	400963829 HH

3 Content of the presentation and handout

Your presentation should aim to enhance your fellow students' understanding of the assigned topic. Given the limited presentation time, it is essential to select your content carefully. One of your key challenges is to identify the most important elements of your topic and present them in a manner that can be communicated and understood within the allocated time. In some cases, your presentation may also ignite the audience's curiosity, encouraging them to explore the topic further on their own.

While you are responsible for the overall content, your submission must include R code and an exercise related to your topic. One option is to discuss an application of the R programming language. The exercise should be completed by the students during the class immediately following your presentation. This interactive component will enhance engagement and reinforce the material discussed.

4 Form of the presentation and the handout

Create a presentation and a handout using Quarto. The handout layout should adhere to the style guide of APA (2020). Therefore, I recommend using the Quarto extension, `apaquarto`, which you can find here: <https://github.com/wjschne/apaquarto>. Both your handout and presentation should be available online on the day of your presentation. Ensure the HTML file is a standalone website (HTML), and also provide a PDF version of your handout and presentation. The PDF of your handout should be formatted for A4 paper. For guidance on creating a standalone HTML file, refer to [Quarto HTML Publishing](#). Publish both the website and handout on GitHub, sharing the URLs with the audience for access during your presentation. Additionally, please submit at least the following files on ILIAS:

- Quarto file of your handout.
- Quarto file of your presentation.
- HTML file of your handout.
- HTML file of your presentation.
- PDF file of your handout.
- PDF file of your presentation.

The design and the layout of the presentation slides are your choice. However, please avoid trying to impress with elaborate layouts or extraneous details. This is an academic presentation, and distracting decorations are inappropriate. Your primary focus should be on effectively communicating information, facts, and insights to the reader. Feel free to include any elements that support this goal. In the presentation, tables and figures don't need to be numbered.

Also, consider additional requirements for your submission outlined below.

Add this affidavit to your handout

*Your report should contain the following **Affidavit**. Simply, fill it out and put it at the end of your report. You can check the box in Quarto like this:*

- `[x] I checked this box`

Affidavit

I hereby affirm that this submitted paper was authored unaided and solely by me. Additionally, no other sources than those in the reference list were used. Parts of this paper, including tables and figures, that have been taken either verbatim or analogously from other works have in each case been properly cited with regard to their origin and authorship. This paper either in parts or in its entirety, be it in the same or similar form, has not been submitted to any other examination board and has not been published.

I acknowledge that the university may use plagiarism detection software to check my thesis. I agree to cooperate with any investigation of suspected plagiarism and to provide any additional information or evidence requested by the university.

Checklist:

- ☐ The handout contains 3-5 pages of text.
- ☐ The submission contains the Quarto file of the handout.
- ☐ The submission contains the Quarto file of the presentation.
- ☐ The submission contains the HTML file of the handout.
- ☐ The submission contains the HTML file of the presentation.
- ☐ The submission contains the PDF file of the handout.
- ☐ The submission contains the PDF file of the presentation.
- ☐ The title page of the presentation and the handout contain personal details (name, email, matriculation number).
- ☐ The handout contains a abstract.
- ☐ The presentation and the handout contain a bibliography, created using BibTeX with APA citation style.
- ☐ Either the handout or the presentation contains R code that proof the expertise in coding.
- ☐ The handout includes an introduction to guide the reader and a conclusion summarizing the work and discussing potential further investigations and readings, respectively.

- ☐ All significant resources used in the report and R code development.
- ☐ The filled out Affidavit.
- ☐ A concise description of the successful use of Git and GitHub, as detailed here: https://github.com/hubchev/make_a_pull_request.
- ☐ The link to the presentation and the handout published on GitHub.

[Your Name,] [Date,] [Place]

5 General tips

I refrain from specific advice on good writing, structuring your work, or adhering to academic rules and conventions. Therefore, I recommend reading Huber (2024) and the literature cited therein.

Since this is an academic presentation and work, respectively, please choose your sources carefully and ensure that you cite them appropriately.

If anything is unclear, please let me know as soon as possible. It is your responsibility to be well prepared on the day of your presentation. If you encounter any problems, let me know immediately and I will do my best to help you. However, please understand that I may have limited availability in the days or weeks leading up to your presentation. Prioritise the essential tasks that are technically complex or where something is likely to go wrong.

6 References

- APA. (2020). *Publication manual of the American Psychological Association* (7th ed.). American Psychological Association.
- Huber, S. (2024). *My five cents on how to write a thesis: A guide for my students*. <https://hubchev.github.io/fivecents/fivecents.pdf>