Seminar Organization

Seminar Timetable (might change)

Seminar	Topic
Seminar 1	Discussion about seminar organization
Seminar 2	Optional exercises / Work to prepare report
Seminar 3	Optional exercises / Work to prepare report
Seminar 4	Optional exercises / Work to prepare report
Seminar 5	Optional exercises / Work to prepare report
Seminar 6	Optional exercises / Work to prepare report
Seminar 7	Experimental Report presentation – 08th of January 2025

Optional Exercises

- For Seminars 2 – 6 I will prepare a document with some exercises related to what was discussed during the lectures. Solving these exercises is entirely optional, they are not graded, and they do not have to be presented. Students wanting to solve them can do this during the seminar (and we can discuss the solutions and results during the seminar) or at home at any time (and if they need help, they can contact me through mail or chat).
- Alternatively, students can use the time allocated for the seminar to work on their report (as well), to discuss different issues or ideas.

Experimental Report – ER

- Each student will pick one (or more) existing time series data set(s) and perform a full analysis on it, including all steps that will be discussed during the course (analysis of data, visualizations, model definition, fitting, evaluation, etc.).
- The focus of the analysis can be the comparison of several forecasting approaches on one data set, or the comparison of one approach over several data sets.
- Students are expected to do their own analysis, not take results from state-of-the-art papers, however, they can use any data set from the literature.
- The focus of the report is how students can apply the learnt techniques and how they can draw conclusions from the results. The report should contain textual information (description of the data sets, interpretation of results, etc.), figures (visualizations) and the code used in the analysis.
- Any programming language can be used for the report.
- Students are encouraged to add some relevant analysis which was not discussed during the lectures but was studied individually by the student.
- There is no requirement regarding the length of the report, but it should be as complete as possible.

Deadlines

- The data set(s) for the Experimental Report must be selected and uploaded in the corresponding Microsoft Teams assignment by the end of the day when we have Seminar 5 (27.11.2024).
- The final version of the Experimental Report must be uploaded in the Microsoft Teams at least one week prior to the presentation date (01.01.2025).

Requirements

- The report can be submitted as a Microsoft Word or PDF file.
- The report must represent the student's own effort, the content must be written by the student, the ideas, opinions, conclusions must be the student's own.
- Guidelines for writing scientific papers will be followed in the reports as well: Tables, Figures, etc. must be numbered and referenced in text. Bibliography entries (if exist) have to be correct and complete and all of them have to be cited in text.
- Presentation of the report does not necessarily imply a PowerPoint presentation, you can simply go through the pages / code. However, if a student wants to, he/she can prepare a presentation, can project figures, or can draw on the whiteboard. During the presentation of the Experimental report, students will be required to show Figures, Tables, and any other relevant visualizations. These can be done in a PowerPoint presentation or simply by projecting the needed Figures.

The use of generative AI (ex. ChatGPT) during the writing of the reports.

(Adapted from Elsevier's "Declaration of generative AI in scientific process" policy)

- Where students use generative artificial intelligence (AI) and AI-assisted technologies in the writing process, they should only use these technologies to improve readability and language.
- Students must disclose the use of generative AI and AI-assisted technologies in the writing process by adding a statement at the end of their report, before the References list. The statement should be placed in a new section entitled 'Declaration of Generative AI and AI-assisted technologies in the writing process'.
- Statement: *During the preparation of this work the author used [NAME TOOL / SERVICE] in order to [REASON]. After using this tool/service, the author reviewed and edited the content as needed and takes full responsibility for the content of the report.*
- Any text that is the output of such a technology must be clearly marked in the report (ex. different background or font color).
- This declaration does not apply to the use of basic tools for checking grammar, spelling, references etc. If there is nothing to disclose, there is no need to add a statement.

Grading & Penalties

Each report will be graded as follows:

- 0.5p – Title, introduction

- 3.5p – Main sections, critical analysis, structure
- 1p – Conclusions
- 1p – Extra analysis (for the Experimental Report)
- 4p – Oral presentation, discussion, question answering.

The following penalties will be applied in case of missed deadlines:

- Not uploading the topic of the Experimental report on time – **2% penalty** of the report grade for every missed day.
- Not uploading the Experimental report on time – **5% penalty** of the report grade for every day.
- Reports that were not uploaded at least 24 hours before the scheduled presentation date cannot be presented.
- A delay of at least 7 days in uploading the Experimental report will lead to a final grade of 0 for that report. Reports not uploaded at all will also have a grade of 0.
- Reports where generative AI was used for other tasks besides the allowed ones, will have a grade of 0.
- Reports where the TurnItIn similarity is over 30% will have a grade of 0.

The final grade for the Forecasting and Predictive Modelling will be determined as:

- 50% - Written Exam
- 50% - Applicative (Experimental) Report

Minimum requirements:

- The written exam grade needs to be at least 5.
- The final grade needs to be at least 5.

Important Notes

- Class attendance is neither formally required nor observed. All grades will be awarded based on the quality of the work, independent of any attendance at the lectures or seminars.
- Students can decide to not present their reports (which will lead to the loss of the points given for presentation), but they still need to respect all the deadlines and missing them will lead to the same penalties as in case of students that are presenting their work.
- The reports are considered to be part of the seminar activity and have to be submitted and presented during the seminar. No report can be submitted and no activity can be redone for grade increase during the exam session or the retake session.
- In both exam sessions (regular and retake) only the written exam will be organized.
- Reports not presented when their presentation was scheduled, will not be presented at another seminar (unless students agree to swap presentation dates, in which case they need to announce me as soon as possible, and both students will need to respect the deadline according to the new schedule).