

Case Studies

Master Econometrics (ME3)

Master Data Science (MD4)

Wed, 14:00 (c.t.) – 17:00, location: CDI/121

start: April 05, 2023

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Case Studies

In **Case Studies** you learn how to use raw data to address statistical or econometric problems.

Group work, discussions, cooperation:

- 1 Understand the problem in the context of a statistical consulting task.
- 2 Describe the data.
- 3 Independently choose and adapt appropriate methods.
- 4 Carry out a comprehensive analysis.
- 5 Interpret the results.
- 6 Present the methodological approaches and results in form of oral presentations, discussions, and reports.

Projects: Group Work and Individual Work

- Two projects (each 7 weeks).
- Working in groups of 3–5 students.
- Ideally, each group contains students of both the Econometrics and the Data Science master.
- Each week a short presentation from each *group*, one student of each group documenting the group's progress.
- One *individually* written report for each project, i.e. two reports from each student.
- No more than 30 pages each, excluding a potential appendix.

Software

- Reports should be written in \LaTeX .
- Presentations should be created in \LaTeX as well.
- Data analyses and programming tasks should be written in R or comparable languages.
- You will have to hand in your own code to confirm your results in the reports.

Requirements

M.Sc. study program Econometrics / Data Analysis:

- All requirements obtained in case of conditional admission have to be fulfilled (ME Req1 to ME Req7 / MD Req1 to ME Req8).
- All conditions must be fulfilled **before** the beginning of “Case Studies”.

Highly recommended:

- Successful pass of “Statistical Theory” (ME1 / MD2).
- You really understood linear models and know how to write code in your preferred statistical language.

(Binding) Registration

- 1 Please self subscribe on Moodle:
<https://moodle.tu-dortmund.de/course/view.php?id=39091>
- 2 Then register via the additional registration form on the course page by February 28:
 - The registration is binding as we will allocate staff accordingly.
 - We also need the extra registration to ask you to confirm that all requirements for attending case studies are fulfilled.
 - In case of an unconditional admission there are no requirements.
 - In case of a conditional admission you will know which requirements (modules Req1 to Req8) apply in your case. All of these have to be fulfilled. This will be checked with the central examination administration.