



Universität Hamburg

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Seminar „Airport and Airline Operations Planning“: Kick-Off





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Contact Info

Prof. Dr. Malte Fliedner

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- Office hours: by appointment



Case Seminar

- In this seminar there is a “background project” that ties the seminar theses together
- You will take up the role of consultants who instruct companies or institutional decision makers with the implementation of quantitative planning approaches for decision support
- Use the framework as a source of inspiration to develop illustrative examples and approaches which convince decision makers of your expertise



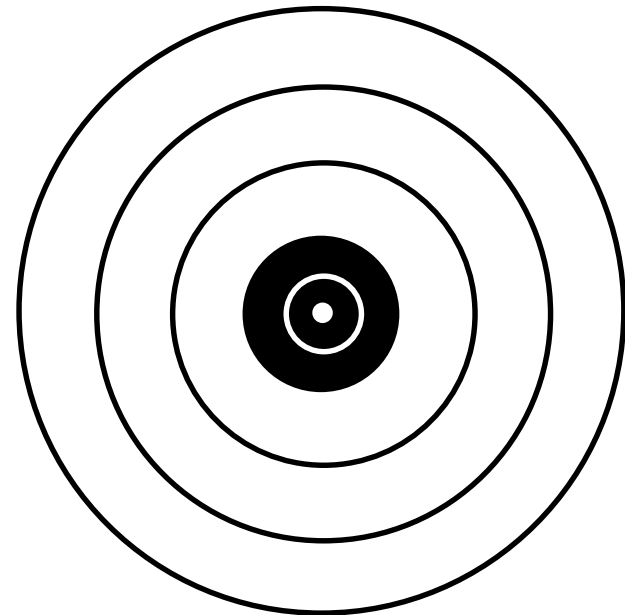
Overview over the Case: „Planning of Airport and Airline Operations“

- Cermedes AG is a consulting agency for airlines and airport operators with a special focus on optimization approaches and quantitative planning
- Your task is to analyse a relevant planning problem and to deduce management insights for your client
- You will develop a quantitative planning approach and evaluate its usefulness considering the requirements of your client



Learning Outcomes

- Critical engagement with scientific literature
- Practicing of scientific writing
- Team work
- Presentation skills
- Quantitative Planning





Module Requirements

Students work in groups of 3-4 participants and are required to complete the following:

Written Seminar thesis (50% of final grade)

- 30-40 pages
- Written during term break and during the semester

Presentation of results and discussion (50% of final grade)

- 60 Minutes Presentation + 10-15 Minutes Discussion
- Presentations as part of blocked weekend (04.-06.07.2025)

Both requirements need to be passed to successfully complete the seminar



Finding a seminar group

- Seminar groups consist of 3-4 Master-Students
- Each group nominates a “group leader”
- Group leader organizes appointments and communicates with supervisor
- If there are any problems in the group, please contact supervisor as soon as possible



Written Thesis

Deadline: Tue. 24.06.2025 until 11:00 Uhr as PDF via email to supervisor

30-40 Pages without attachments

Hints for thesis:

- Explain the relevance of your topic and systemize its role in quantitative planning
- Sources: Use at least 30 scientific sources (Journal articles, text books, dissertations, etc.)
- Explain formal or abstract topics with own illustrative examples as much as possible



Presentations

Midterm Presentation

- 11.04.2025 16:00 Uhr
- Room will be announced
- Max. 15 minutes overview of project, current state and challenges

Final Presentation

- Weekend between 04.07. and 06.07.2025
- Room and Dates will be announced
- Presentation is to be electronically submitted to supervisor on Thursday, 03.07.2025, 16:00 Uhr
- 60 Minutes + 10-15 Minutes moderated discussion
- Make sure every group member contributes equally
- Use illustrative examples for explanations (!)



Seminar Topics (Examples):

1. Planning of Aircraft Towing at Airports
2. Planning of Gate Assignments at Airports
3. Planning of Baggage Handling Systems at Airports
4. Planning of Flight Network for Airlines
5. Crew Scheduling for Airlines
6. Pricing and Revenue Management at Airlines



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