



PhD Course

Advanced Modelling and Optimization

block course: December 17th – 21st 2018

(Room & time tbd)

Course Instructor: Prof. Fliedner/Prof. Haase

Course Value: 2 SWS or 5 LP

Course Objectives:

This course introduces students to the fundamentals of linear and combinatorial optimization and equips them with a set of advanced modeling tools. Students learn to formulate optimization models as mixed-integer linear programs, how to solve them with standard software and how to construct heuristic solution algorithms. Successful participants will be able to deal with the complexity of real-world decision problems via aggregation, relaxation, and decomposition techniques.

This course aims at Ph.D. students in information systems, business administration, and computer science. It provides an advanced understanding of algebraic optimization models and solution methods.

Student evaluation:

A successful completion of work assignments.

Teaching language: English

Registration: via Email to ana-jelena.peric@uni-hamburg.de