

**Thematic Doctoral Programme
„Modeling, Simulation and Optimization in Business and Economics“
Founding Declaration**

Decision

According to this founding declaration and in accordance with **§ 19 paragraph 4c, part B** of the statutes of Alpen-Adria-Universität¹ the Thematic Doctoral Programme „Modeling, Simulation and Optimization in Business and Economics“ will be established as from the 2016/17 academic year.

Faculty members (potential supervisors)

- Univ.-Prof. Dr. **Reinhard Neck** (Institute for Economics, AAU)
- Univ.-Prof. Dr. **Gerald Reiner** (Institute for Production, Logistics and Environmental Management, AAU)
- Univ.-Prof. Dr. **Paul Schweinzer** (Institute for Economics, AAU)
- Univ.-Prof.ⁱⁿ Dr.ⁱⁿ **Friederike Wall** (Department of Controlling and Strategic Management, AAU)

Speaker

Univ.-Prof. Dr. **Reinhard Neck**

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Academic degree

Dr. rer. soc. oec.

Duration of studies

3 years

Language of instruction

English

Courses offered

- courses on modeling, simulation and optimization techniques and their applications to selected topics in business and economics

Profile

- focus on mathematical and computational techniques and their use in modeling systems in economics and management

Aims

- enabling participants to conduct research in the above-mentioned fields on a level equivalent to articles in good international refereed journals in business and economics;

Research areas

- static and dynamic optimization
- game theory
- agent-based modeling
- applications to operations management
- logistics
- supply chain management
- management control systems

¹ See the relevant statutory provision in: Mitteilungsblatt, 6. Stück, issued on 16.12.2015 (Beilage 3, <https://www.aau.at/universitaet/service-kontakt/mitteilungsblaetter/mitteilungsblaetter-2015-2016/>)

- microeconomics
- macroeconomics
- economic policy

Research perspectives

- learning to use mathematical and computational methods to produce new results for decisions on the level of the firm or a government agency;

Admission prerequisites

- master's degree in business/management, economics, mathematics or related fields or equivalent.
- admission to Doctoral Studies of Economics and Social Sciences at AAU
- confirmation of supervision by a member of the doctoral programme

Graduation requirements

The current curriculum requires doctoral students to obtain between 24 and 80 ECTS in courses (and publications, conference presentations, etc.) during a period of 6 semesters (3 years) in addition to their doctoral thesis. The specific course program is developed with the supervisor.

Admission procedure

For the admission to the doctoral programme the current curriculum for doctoral studies of Alpen-Adria-Universität Klagenfurt has to be taken into account.

Potential candidates are invited to apply by informal letter/email, including a CV with a list of courses taken so far and a description of the intended topic(s) of research (exposé of at least two pages).

Entry from previous doctoral studies is always possible. Promising candidates may be invited for an interview. The decision about an application will be made by consensus of the professors teaching and supervising in the programme.

Deadlines

There are no formal deadlines. Applications can be filed any time. The first round of the programme will start on October 1, 2016. Joining later will be possible after consultation with members of the teaching staff.

Contact

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