

**Thematic Doctoral Programme
„Modelling, Simulation, and Optimization in Business and Economics“ (MSOBE)
Founding Declaration (revised)**

Decision

According to this founding declaration and in accordance with **§ 19 paragraph 4c, part B** of the statutes of University of Klagenfurt¹ (AAU) the Thematic Doctoral Programme „Modelling, Simulation, and Optimization in Business and Economics“ was established as from the 2016/17 academic year.

Faculty members (potential supervisors)

- Assoc.-Prof. Dr. **Dmitri Blüschke** (Department of Economics, AAU)
- Assoc.-Prof. Dr. **Alexander Brauneis** (Department of Finance and Accounting, AAU)
- Univ.-Prof. Dr. **Margaretha Gansterer** (Institute for Production, Logistics and Environmental Management, AAU)
- Univ.-Prof. Dr. **Martin Gebser** (Department of Applied Informatics, AAU)
- Assoc.-Prof. Dr. **Stephan Leitner** (Department of Management Control and Strategic Management, AAU)
- Em. o. Univ.-Prof. Dr. **Reinhard Neck** (Department of Economics, AAU)
- Univ.-Prof. Dr. **Paul Schweinzer** (Department of Economics, AAU)
- Univ.-Prof. Dr. **Martin Wagner** (Department of Economics, AAU)
- Univ.-Prof. Dr. **Friederike Wall** (Department of Management Control and Strategic Management, AAU)

Speaker

Assoc.-Prof. Dr. **Stephan Leitner**

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Academic degree

Dr. rer. soc. oec., Dr. techn.

Duration of studies

3 years

Language of instruction

English

Courses offered

- courses on modelling, 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 modelling 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

- agent-based modelling and simulation

¹ See the relevant statutory provision in: <https://www.aau.at/wp-content/uploads/2015/09/Satzung-der-AAU-Teil-B.pdf>

- applications to operations management
- complex systems and business complexity
- decision-making in complex environments
- econometrics
- economic policy
- game theory
- logistics
- management control systems
- macroeconomics
- microeconomics
- static and dynamic optimization
- supply chain management

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 Social Sciences and Economics or Technical Sciences at AAU
- confirmation of supervision by at least one member of the doctoral programme

Admission procedure

For the admission to the doctoral programme, the current curriculum for doctoral studies of AAU 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.

Graduation requirements

Graduation requirements can be found in the current curriculum for doctoral studies of AAU. The specific course program is developed with the supervisor. Participants in the MSOBE Doctoral Programme are required to attend and present regularly in the Joint Doctoral Seminar MSOBE and to pass at least two courses in the Programme.

Deadlines

There are no formal deadlines. Applications can be filed any time. The first round of the programme started on October 1, 2016.

Contact

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