



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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# Master's degree



## Operations Research and Business Analytics (ORBA)

Otto von Guericke University Magdeburg • Magdeburg



## Overview

Degree	Master of Science in Operations Research and Business Analytics
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	Courses and examinations are <b>exclusively in English</b> . Up to 20 ECTS can be recognised from modules taught in German.
Full-time / part-time	<ul style="list-style-type: none"><li>full-time</li></ul>
Programme duration	4 semesters
Beginning	Winter semester
Additional information on beginning, duration and mode of study	The study programme <b>will start on 1 October</b> . Newly enrolled students have to take part in the <b>mandatory introduction week</b> . During this week, students will learn how to organise their class schedules by following the programme structure and e-learning portals. They will also receive important information about the school's class and exam registration rules as well as discover options for networking activities, etc.
Application deadline	International degree holders: 15 June for the following winter semester
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	This Master's programme in Operations Research and Business Analytics is part of the <a href="#">International Study Programme (ISP Page Flow)</a> of our school and is designed to equip students with the knowledge, quantitative tools, and skills necessary for <b>analysing and monitoring the performance of public and private enterprises</b> . Graduates of this <b>interdisciplinary programme</b> will acquire skills

in business and management, data management, and data analysis to provide managers with quantitative information for strategic, tactical, and operational decisions. In particular, students will learn to solve challenging problems in supply chain management and financial management.

This programme **builds upon a very strong foundation in data analysis, quantitative modelling, and algorithms**. It qualifies students for challenging positions in the private and public sectors worldwide as well as for future doctoral research.

This study programme has a **partnership with the Schools of Mathematics, Computer Science, and Economics and Management**. If you would like to learn more about our English Master's study programmes, check out our website: [www.isp.ovgu.de](http://www.isp.ovgu.de).

#### Current information

Our school **mostly** offers **in-person classes**. Some online modules may be offered, depending on the lecture style of the professor. **On-campus presence is required** in order to successfully complete the programme.

The ORBA programme is a **limited places study programme** (NC – numerus clausus). Admission will be offered after a selection procedure, and enrolment cannot be postponed.

## Course Details

#### Course organisation

The programme includes an offer of compulsory elective modules in Quantitative Methods and in Methods of Computer Science. Afterwards, a **specialisation in Supply Chain Management or Financial Management** is required.

Students are required to successfully complete compulsory elective seminars and a scientific project. A written Master's thesis and a corresponding seminar will complete the graduate study programme.

Students have to expect a weekly workload of approx. 20 hours of classroom studies and a minimum of 20 hours of independent studies.

Classroom studies include lectures to learn new concepts, tutorials to foster discussions and practice techniques, and seminars to apply theories and methods to an assigned project. The scientific project includes an academic paper and a final presentation.

Candidates must demonstrate an advanced ability to work independently on research topics using scientific methods. This study programme is **strongly related to mathematics and computer science**. Profound undergraduate knowledge in **computer languages** and **advanced mathematical techniques** is **necessary** to successfully complete this study programme.

[Module Descriptions](#)

[» PDF Download](#)

#### A Diploma supplement will be issued

Yes

#### International elements

- International guest lecturers
- International comparisons and thematic reference to the international context

#### Integrated internships

There are **no compulsory internship** requirements. However, students are encouraged to **complete a voluntary internship** during the course of their studies. The faculty believes it is valuable to gain professional experience within German and international workplaces. Internships must be organised independently. Furthermore, the AIESEC and ERASMUS organisations and the University Career Service Centre provide opportunities and assistance to both German and international

	students.
Course-specific, integrated German language courses	No
Course-specific, integrated English language courses	No

## Costs / Funding

Tuition fees per semester in EUR	None
Semester contribution	Currently, the semester fee is 155.20 EUR. It covers services offered by the "Studentenwerk" (student union) and the student representatives. Enrolled students receive a semester ticket for free use of public transport, student discounts in the campus cafeteria, etc.
Costs of living	A minimum of 861 EUR per month must be budgeted for accommodation, cost of living, health insurance, books, and miscellaneous expenses. In comparison with many other towns and cities, the rental prices in Magdeburg are still relatively low. There are no tuition fees for the majority of programmes, and the semester fee already includes the cost of bus and tram travel within Magdeburg. The following link provides a fair picture of the cost of living in Magdeburg: <a href="#">Finance</a> .
Funding opportunities within the university	No

## Requirements / Registration

Academic admission requirements	<p>Applicants must provide proof of a Bachelor's degree, diploma, or another equivalent degree in a relevant subject from a recognised university with a <b>GPA from 1.0 up to 2.9, according to the German grading system</b>. A degree is considered relevant if a minimum number of credits were gained in modules covering subjects such as economics, business administration, and related quantitative methods modules (mathematics, statistics, econometrics, etc.).</p> <p>Detailed information about admission requirements, including relevant degrees, a letter of motivation written on the <a href="#">standardised "Letter of Motivation" form</a> as well as recognised, valid English skills levels and tests are available on the study programme's website: <a href="#">ORBA programme and admission details</a>.</p> <p><b>Previous advanced knowledge in computer science</b>, such as programming and previous job experience, as well as the <b>motivation letter</b> are important for the <b>selection process</b>. Selected candidates will be invited to an <b>interview</b> (end of August / beginning of September).</p>
Language requirements	Proof of advanced and <b>fluent English skills</b> with a minimum language level of C1 is strictly required. A detailed and updated list of recognised test options and scores is available on the study programme's website: <a href="#">ORBA admission and language requirements</a>
Application deadline	International degree holders: 15 June for the following winter semester

Submit application to	Otto-von-Guericke-Universität Magdeburg c/o uni-assist e.V. 11507 Berlin, Germany  <a href="http://www.uni-assist.de">www.uni-assist.de</a>
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## Services

### Possibility of finding part-time employment

It is possible to find a part-time job as a research or student assistant at one of the faculties or in the university administration (maximum: 80 hours per month). Other opportunities are student jobs at different companies, restaurants, and shops. Information on how to find a job can be found on our website: [Career Service](#).

### Accommodation

The "Studentenwerk" (student union) in Magdeburg manages the on-campus halls of residence (mostly one- to four-room apartments). Currently, the monthly rent ranges from 200 to 370 EUR per room (approx. 12 to 35 square meters), depending on the size and furnishing. Rooms in the halls of residence are limited in number. The accommodation application can be found on the website of the Studentenwerk.

The Studentenwerk assists all new students in finding adequate accommodation, either on or off campus. Private accommodation is available on the Magdeburg accommodation market. However, fully furnished units are in somewhat short supply.

### Career advisory service

Our Career Service Centre provides workshops as well as job and internship search assistance for students. A yearly job fair that is exclusively for students is held on campus.

### Support for international students and doctoral candidates

- Welcome event
- Buddy programme
- Specialist counselling
- Tutors
- Visa matters
- Help with finding accommodation
- Support with registration procedures

### General services and support for international students and doctoral candidates

Our school provides a **buddy programme (SIMP-SON)**, a **website**, and a **student advisory service office (ISP Office)** exclusively for students enrolled in study programmes conducted in English. A year-round integration programme is part of the mentoring and includes **intercultural workshops**, weekly counselling hours, English-guided tours and trips, and networking events with fellow students. To participate in the mentoring programme, students need to apply ahead of time to be paired with a student in a more advanced semester.

[SIMP-SON](#)



## Study and Research at the Otto von Guericke University Magdeburg

The Otto von Guericke University Magdeburg, founded in 1993, is a young university with nine faculties and about 14,000 students from all around the world. In terms of research and teaching, the focus of the dynamic and cosmopolitan university is on meeting the challenges of the modern knowledge society. The campus is modern and compact, and it is located in the centre of Magdeburg.

» more:

<https://www.youtube.com/watch?v=6nbfAExH6B0>

# — Otto von Guericke University Magdeburg —



The School of Economics and Management at the Otto von Guericke University Magdeburg

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Otto von Guericke University Magdeburg (OVGU) was founded in 1993 and is one of Germany's youngest universities. It was formed by a merger of the existing technical university, the teacher training college, and the medical school. The university now comprises nine faculties and about 14,000 students and is becoming increasingly more important as a centre for education and research. It plays an important role in the regional capital of Magdeburg, which is developing into a centre for business, scholarship, and culture. The university is a member of many organisations and committees. It is named after Otto von Guericke (1602-1686), Magdeburg's famous citizen, whose

pioneering research into the vacuum brought him renown well beyond Germany's borders. The university aspires to teach and research in the tradition of this great scientist, philosopher, and engineer and to continue with his humanist work.

At the Otto von Guericke University Magdeburg, students can choose from more than 90 degree courses in various areas of study and specialisation. In addition to these, a range of postgraduate courses are offered. There are also many possibilities to combine different subjects across faculties. The conditions for students are ideal, with modern laboratories, experimental workshops, and clinics equipped with high-performance computers and an excellent staff-student ratio. The offer of a sound, thorough education, combining a high level of theoretical expertise with practical experience, makes Magdeburg an attractive choice.

In recent years, research at the university has gone through a decisive change, from applied research to innovative, fundamental research. Among the many areas represented, the neurosciences, immunology, non-linear systems, new materials, processes and products, computational visualistics, social transformation, communication, and culture deserve a special mention. The university hopes to make a significant contribution to economic and social development in Magdeburg and the surrounding area through its research. Equally, disciplines such as humanities, economics, and management, which have been established more recently at the university, have already made their mark on our research profile. Special emphasis is placed on close cooperation between teaching staff and students.

Magdeburg also attracts students because it offers accommodation with either a single bed or twin beds in its halls of residence.

[Take a virtual trip through our international campus!](#)



## University location

As the capital of the federal state of Saxony-Anhalt, Magdeburg is the seat of the state parliament and administration. The town is more than 1,200 years old and has about 234,000 inhabitants. Its excellent location on the River Elbe and its proximity to Berlin, Hanover, and Leipzig have proven to be a significant asset to the city. In the 19th century, the town developed into an important industrial and trade centre. Nowadays, another quite distinctive feature of Magdeburg is its considerable research and innovation potential at the university, the Max Planck and Fraunhofer research institutes, and the university of applied sciences, which are all located in close proximity to each other. Magdeburg offers an extensive park and garden landscape, a rich cultural and sports life, and an ideal atmosphere for being a student. Please visit the website: [www.magdeburg.de](http://www.magdeburg.de).

## Contact

### **Otto von Guericke University Magdeburg**

Faculty of Economics and Management  
Dekanat, Office for International Affairs + ISP

PO box: 4120  
Universitätsplatz 2  
39106 Magdeburg

✉ [isp@ovgu.de](mailto:isp@ovgu.de)  
🌐 Course website: <https://www.isp.ovgu.de/>

📘 <http://www.facebook.com/OVGU.Magdeburg>

🐦 <http://www.twitter.com/OVGUpresse>

🌐 <https://www.linkedin.com/school/otto-von-guericke-university-magdeburg/>

📷 [http://www.instagram.com/uni\\_magdeburg](http://www.instagram.com/uni_magdeburg)

📺 <https://www.youtube.com/channel/UCX7seJ01ntgujN3NilAUkUw>

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# International Programmes in Germany - Database

[www.daad.de/international-programmes](http://www.daad.de/international-programmes)  
[www.daad.de/sommerkurse](http://www.daad.de/sommerkurse)

## Editor

DAAD - Deutscher Akademischer Austauschdienst e.V.  
German Academic Exchange Service  
Section K23 – Information on Studying in Germany  
Kennedyallee 50  
D-53175 Bonn  
[www.daad.de](http://www.daad.de)

## GATE-Germany

Consortium for International Higher Education Marketing  
[www.gate-germany.de](http://www.gate-germany.de)

## Disclaimer

The data used for this database was collected and analysed in good faith and with due diligence. The DAAD and the Content5 AG accept no liability for the correctness of the data contained in the "International Programmes in Germany" and "Language and Short Courses in Germany".

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