



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Master's degree



Transportation Economics

Dresden University of Technology • Dresden

Overview

Degree	Master of Science
Teaching language	<ul style="list-style-type: none">English
Languages	All required modules are taught in English. It may happen that single supplementary modules are taught in German.
Full-time / part-time	<ul style="list-style-type: none">full-timepart-time (study alongside work)
Programme duration	4 semesters, 8 semesters
Beginning	Winter semester
Application deadline	Non-EU applicants: 31 May for the following winter semester EU applicants: 15 July 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

Our Master's programme in Transportation Economics provides you with scientific methods and tools for understanding, processing and solving imminent transport-related issues.

Five specialisations are offered in the degree programme, of which you choose two. In these specialisations, you will gain expertise in transportation economics.

These are the five specialisations:

- **Computational Logistics:** The course content consists of analytical methods for solving problems and supporting decisions in transport and logistics companies as well as managing transport systems and services.
- **Transport Policy:** The course content consists of economic and econometric methods for the analysis of a variety of transport policy issues (e.g. emissions, congestion, noise, and safety) and the design and assessment of adequate transport policy measures.
- **Spatial and Environmental Economics:** Contents include economic and econometric

methods for analysing the spatial, economic and environmental impact of mobility in cities and regions as well as the evaluation and design of relevant policy interventions to improve the spatial allocation and reduce negative environmental impacts of transport.

- **Statistics:** This course deals with methods of multivariate statistics. The theoretical basics as well as the application of the methods to transport and economic data are covered.
- **Data Analytics in Transportation:** This course covers methods of data analytics and their application. These methods are relevant for preparing and analysing surveys and experiments and studying structured and unstructured data (Big Data) in the transport sector.

You can deepen and expand your knowledge of transport economics by choosing supplementary courses. You can choose not only transport economics modules but also certain economics and transport engineering courses. In addition, you can acquire skills in foreign languages or integrate a vocational internship into your studies. Therefore, the Master's programme provides a high level of flexibility. You can include your ideas, wishes and interests in your studies.

Course Details

Course organisation

The degree programme has a modular structure and runs over four semesters (eight semesters in part-time study). Modules worth at least 90 credit points (ECTS) have to be taken. The module examinations are taken during the course of study. A Master's thesis (fourth semester or seventh or eighth semester) including a disputation must be completed (30 ECTS).

Course of studies

First Semester (30 ECTS):

- 25 ECTS Compulsory modules (a total of five modules of 5 ECTS each: all five courses are compulsory):
 1. Operations Research and Logistics
 2. Methods in Transport Policy
 3. Spatial Economics and the Environment
 4. Theoretical Multivariate Statistics
 5. Methods in Data Analytics
- 5 ECTS Supplementary courses (usually one module)

Objective: Creating common methodological knowledge in addition to the admission requirements as preparation for the specialisations.

Second Semester (30 ECTS):

- 20 ECTS in two in-depth modules of two specialisations in transport economics (compulsory elective modules; a total of four modules à 5 ECTS).
- 10 ECTS Supplementary courses (compulsory elective modules; in-depth modules of non-selected specialisations in transportation economics: modules in economics, transport engineering, foreign language and selected modules of other degree programmes)

Third Semester (30 ECTS; mobility window):

- 15 ECTS Research work: You will take this in one of the two chosen specialisations (compulsory elective).
 - The aim of the research work is to deal in depth and in a research-oriented manner with a transport economics topic. This will usually be done as a preliminary work for the Master's thesis.
- In addition, you can choose one of the following:
 - 15 ECTS Supplementary courses (compulsory elective: modules from economics, transport engineering, foreign language communication and individual modules from other degree programmes) or
 - 15 ECTS Work experience (vocational internship) (compulsory elective module)

You can use the third semester (mobility window) for studying abroad or including a vocational internship in your studies.

- Students and supervisors can organise the research work to fit the plans for studying abroad or doing an vocational internship by individual agreements.
- You can transfer a further 15 ECTS from modules completed at a university abroad.
- The vocational internship (15 ECTS) can be national or international.

Fourth Semester (30 ECTS):

- 30 ECTS Master's thesis: You will write the Master's thesis in one of the chosen specialisations. Ideally, you should combine the research module and the Master's thesis. This allows you to work on a topic in depth in terms of content and methodology for two semesters. In case you are aiming for a doctorate, this already gives you an excellent impression of the procedure for writing a comprehensive scientific thesis.

A Diploma supplement will be issued	Yes
International elements	<ul style="list-style-type: none"> • Language training provided • Opportunities for students to work abroad
Description of other international elements	<p>The programme includes a mobility window in the third semester. You can use this opportunity to study abroad or for a vocational internship. You can transfer up to 30 ECTS from modules completed at a university abroad.</p> <p>TU Dresden also offers numerous language courses for different languages and different levels. You can earn up to 10 ECTS for languages during your studies. Information on the language courses can be found here: https://www.sprachausbildung.tu-dresden.de/en/</p>
Integrated internships	Optionally, you can complete a vocational internship in the third semester.
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, students pay ~290 EUR per semester (i.e. for six months). This includes the Deutschland-Ticket, a ticket for most local public transport (bus, tram, ferry, S-Bahn) and regional trains in all of Germany incl. Dresden. Additionally, students can use a bike rental service all over the city of Dresden for free for 30 minutes. The contribution also assures concessions in the university cafeterias and offers benefits (e.g. price reductions) for many cultural and leisure activities.

Costs of living Dresden offers high quality of living at very moderate costs. Currently, students should expect to pay around 850 EUR per month including rent, food, insurance and basic expenses. This figure is

relatively low compared to other big German cities.

Funding opportunities within the university	Yes
Description of the above-mentioned funding opportunities within the university	Information on scholarships and funding for students is summarised on a dedicated web page of the TU Dresden .

Requirements / Registration

Academic admission requirements	<p>The prerequisites for admission to the programme are:</p> <ul style="list-style-type: none">• a first university degree recognised in Germany that qualifies you for a specific profession, or a degree from a state or state-recognised university of cooperative education in the field of economics, transportation economics, or from a STEM field (mathematics, information technology, natural sciences and technology) or a degree in another course of study with a strong quantitative orientation in terms of content• In addition, special knowledge in the fields of economics, business management, and quantitative methods (mathematics, statistics, econometrics, operations research, programming, data analytics) is required.* <p>*For more details, see: https://tu-dresden.de/studium/vor-dem-studium/studienangebot/sins/sins_eignungsfeststellung_detail?autoid=31374.</p>
Language requirements	English proficiency at level B2 of the Common European Framework of Reference for Languages is a prerequisite.
Application deadline	<p>Non-EU applicants: 31 May for the following winter semester</p> <p>EU applicants: 15 July for the following winter semester</p>
Submit application to	https://tu-dresden.de/studium/vor-dem-studium/bewerbung/online-bewerbung

Services

Possibility of finding part-time employment	In order to top up their budget, some students may want to look for temporary work in Dresden. If so, different regulations apply for students from EU member states, countries of the European Economic Area (EEA) and Switzerland, and students from outside the European Union and the EEA area. In addition, restrictions on the duration of employment may apply. Professors, lecturers and group leaders involved in the Master's programme may offer students the possibility of working as academic assistants. However, living expenses can be financed only partially through a job as an academic assistant.
Accommodation	It is still relatively easy to find affordable accommodation in Dresden. Accommodation is available either via the "Studentenwerk Dresden" or on the private market. Rent for a single room in a student residence is approx. 250 EUR per month. Private housing can be found online. We recommend that you move into a hall of residence at the beginning of your stay in Dresden. Subsequently, you can look for a place on the private market or

in a shared apartment, which is known as a "Wohngemeinschaft" in German.

Career advisory service

TU Dresden offers plenty of counselling and training within its Career Service to help students with finding professional orientation. They offer workshops to equip students with professional skills and help optimise their CVs.

Additionally, there are special workshops for international students to get to know the German and Saxon job market and network.

Support for international students and doctoral candidates

- Welcome event
- Specialist counselling
- Tutors

Contact

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🌐 Course website: <https://tu-dresden.de/sins/ma-tec/en>

📘 <https://www.facebook.com/TUDresden>

🐦 https://twitter.com/tudresden_de

🌐 <https://de.linkedin.com/school/tu-dresden/>

📷 <https://www.instagram.com/tudresden>

📺 <https://www.youtube.com/TUDresdenTV>

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International Programmes in Germany - Database

www.daad.de/international-programmes

www.daad.de/sommerkurse

Editor

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German Academic Exchange Service

Section K23 – Information on Studying in Germany

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www.daad.de

GATE-Germany

Consortium for International Higher Education Marketing

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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