

Specific Examination Regulations for the consecutive Master's degree program in Mobility Systems

As of March 18, 2026

Pursuant to § 14 para. 4 sentence 1 and § 35 para. 1 sentence 1 of the Saxon Higher Education Act of May 31, 2023 (SächsGVBl. p.329), last amended by Article 2 of the Act of January 31, 2024 (SächsGVBl. p. 83), the Faculty Board of the Faculty of "Friedrich List" Faculty of Transport and Traffic Sciences, after consulting with the Study Commission for the Master's degree program in Mobility Systems issued the following Specific Examination Regulations as a statute, which has been approved by the University Executive Board:

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§ 1

Scope of application

These specific Examination Regulations apply in conjunction with the General Examination Regulations. Jointly, they comprise the Examination Regulations for the consecutive Master's degree program in Mobility Systems pursuant to § 1 para. 2 sentence 2 of the General Examination Regulations, as defined in § 35 of the Saxon Higher Education Act. These Examination Regulations apply in conjunction with the Study Regulations for the consecutive Master's degree program in Mobility Systems.

§ 2

Language of instruction, duration, of studies

(1) The Mobility Systems Master's degree program shall be conducted in English.

(2) The standard period of study is 4 semesters.

(3) By passing the Master's examination, a total of 120 credits are awarded for modules, the Master's thesis, and the colloquium.

§ 3

Subject-specific admission requirements for the Master's examination

Prior to the topic of the final Master's thesis being issued, students must have earned at least 75 credits.

§ 4 Subject, nature and scope of the Master's examination

(1) The Master's examination comprises all module examinations of the modules of the compulsory field and the module examinations of the selected modules of the elective compulsory field.

(2) Modules of the compulsory field are:

- 1st Mobility System Planning and Research,
- 2nd Human Behavior and Environmental Effects in Transportation,
- 3rd Design and Operation in Public Transportation,
- 4th Road Design and Pavements,
- 5th Data and Models in Transport Planning, and
- 6th Research Task in Mobility Systems.

(3) Modules of the elective compulsory field are:

- 1st Urban Mobility Workshop Basics,
- 2nd Urban Mobility Workshop Advanced,
- 3rd Scenarios for Sustainable Mobility,
- 4th Basics in Psychology and Behavioral Economics,
- 5th Cost-Benefit Evaluation of Infrastructure Projects and Traffic Law,
- 6th Urbanism,
- 7th Management of Public Transport Systems and Services,
- 8th Railway Operation,
- 9th Urban Engineering and Road Drainage Systems,

- 10th Road Traffic Safety,
- 11th Road User Behavior and Safety,
- 12th Rail Design,
- 13th Fundamentals of Traffic System Dynamics and Control,
- 14th Advanced Traffic System Dynamics and Control,
- 15th Agent-based Modeling in Transportation,
- 16th Methods in Data Analytics,
- 17th Advanced Methods in Data Analytics,
- 18th Transport Network Optimization with Emerging Data for Ethical and Sustainable Applications,
- 19th Data Driven Statistics,
- 20th Fundamentals of Geoinformatics,
- 21st GIS and Geodata Bases,
- 22nd Advanced Tools and Methods of Transportation Ecology,
- 23rd Analysis of Vehicle Emissions and Air Pollution,
- 24th Data Collection and Evaluation Methods for Bicycle Planning,
- 25th Advanced Issues in Psychology and Behavioral Economics,
- 26th Light and Lighting in Transportation Systems,
- 27th Planning Process and Environmental Protection in Road Design,
- 28th Building Information Modeling for Transportation Infrastructure,
- 29th Theoretical Multivariate Statistics,
- 30th Applied Multivariate Statistics,
- 31st Algorithms and Traffic Networks,
- 32nd Decision Support in Transportation Logistics,
- 33rd Geodata Infrastructures,
- 34th Geoinformation Services,
- 35th Sensor Technology in Transport Systems, and
- 36th Vocational Internship in Mobility Systems.

Students must select modules totaling 55 credit points, including modules totaling at least 30 credit points from the modules listed in sentence 1, items 1 through 21. With the approval of the Examination Committee, students may also choose modules from the entire range of modules offered by TUD Dresden University of Technology or a cooperating university.

§ 5

Free attempt

One free attempt is permitted.

§ 6

Allotted time, form and copies of the Master's thesis; colloquium

(1) The Master's thesis requires 660 hours of work and is worth 22 credit points. The allotted time to complete the thesis shall be 19 weeks. In individual cases, the Examination Committee may, upon justified request by the student, extend the allotted time by a maximum of 9 weeks.

(2) The Master's thesis shall be submitted in two typewritten and bound copies as well as in digital text form on a suitable storage device.

(3) The Master's examination shall include a colloquium. The colloquium shall run for 60 minutes. 8 credits are awarded.

§ 7

Weighting for the final and overall grades

(1) When calculating the final grade, the grade for the Master's thesis shall be weighted twice and the grade for the colloquium shall be weighted once.

(2) When calculating the overall grade, the final grade for the Master's thesis shall be weighted 30-fold.

§ 8 Additional information

The names of the examiners of the individual examined assessments are shown on a supplement to the examination certificate. At the student's request, the certificate shall also indicate the duration of study required to complete the final examination, the grades for additional modules, and the corresponding credit points; furthermore, the supplement to the certificate shall list the grades for examinations in additional modules.

§ 9 Master's degree

Once the Master's examination has been passed, the Master of Science (M.Sc.) degree shall be awarded.

§ 10

Entry into force

These specific Examination Regulations shall enter into force on April 1, 2026.

The foregoing statutes are hereby executed. They shall be published in the official announcements of TU Dresden.

Dresden, March 18, 2026

The Rector
of TUD Dresden University of Technology
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