TUD Dresden University of Technology
“Friedrich List” Faculty of Transport and Traffic Sciences

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

as of x. month 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. Together, 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 shall be 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:
1. Mobility System Planning and Research,
2. Human Behavior and Environmental Effects in Transportation,
3. Design and Operation in Public Transportation,
4. Road Design and Pavements,
5. Data and Models in Transport Planning, and
6. Research Task in Mobility Systems.

(3) Modules of the elective compulsory field are:
1. Urban Mobility Workshop Basics,
2. Urban Mobility Workshop Advanced,
3. Scenarios for Sustainable Mobility,
4. Basics in Psychology and Behavioral Economics,
5. Cost-Benefit Evaluation of Infrastructure Projects and Traffic Law,
6. Urbanism,
7. Management of Public Transport Systems and Services,
8. Railway Operation,

9. Urban Engineering and Road Drainage Systems,
10. Road Traffic Safety,
11. Road User Behavior and Safety,
12. Rail Design,
13. Fundamentals of Traffic System Dynamics and Control,
14. Advanced Traffic System Dynamics and Control,
15. Agent-based Modeling in Transportation,
16. Methods in Data Analytics,
17. Advanced Methods in Data Analytics,
18. Transport Network Optimization with Emerging Data for Ethical and Sustainable Applications,
19. Data Driven Statistics,
20. Fundamentals of Geoinformatics,
21. GIS and Geodata Bases,
22. Advanced Tools and Methods of Transportation Ecology,
23. Analysis of Vehicle Emissions and Air Pollution,
24. Data Collection and Evaluation Methods for Bicycle Planning,
25. Advanced Issues in Psychology and Behavioral Economics,
26. Light and Lighting in Transportation Systems,
27. Planning Process and Environmental Protection in Road Design,
28. Building Information Modeling for Transportation Infrastructure,
29. Theoretical Multivariate Statistics,
30. Applied Multivariate Statistics,
31. Algorithms and Traffic Networks,
32. Decision Support in Transportation Logistics,
33. Geodata Infrastructures,
34. Geoinformation Services,
35. Sensor Technology in Transport Systems and
36. 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 TU 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, X. month 2026

The Rector
of TUD Dresden University of Technology

Prof. Ursula Staudinger