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Technische Universität Dresden
Faculty of Physics

Specific Examination Regulations for the consecutive Master's degree program in Sustainable Electronics and Photonics

as of April 24, 2026
(translated version)

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 Physics, after consulting with the Study Commission for the Master's degree program in Sustainable Electronics and Photonics 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 Sustainable Electronics and Photonics 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 Sustainable Electronics and Photonics.

§ 2

Language of instruction, duration, and scope of studies

(1) The Master's degree program in Sustainable Electronics and Photonics is taught in English.

(2) The standard period of study is four semesters. In addition, under the Erasmus Mundus program in Nanoscience and Nanotechnology, and in accordance with the cooperation agreement, students have the option of beginning their studies at the Katholieke Universiteit Leuven (KU Leuven, Belgium) and continuing and completing them at the TU Dresden after the first year.

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

§ 3

Subject-specific admission requirements for the Master's examination

Prior to the assignment of the topic of the Master's thesis, students must have passed the exams for the required modules in accordance with § 4 para. 2, and earned at least 70 credit points.

§ 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. Concepts of Molecular Modeling,
2. Semiconductor Technology,
3. Organic Semiconductors,
4. Basics – Solid State Science,
5. Basics – Aspects of Sustainability in Device Design, Fabrication, and Post-Use,
6. Materials for Nanoelectronics,
7. Printing Technology,
8. Physical Characterization of Organic and Organic-Inorganic Thin Films, and
9. Work Experience Project.

(3) The elective compulsory field comprises the two focus areas: Electronics and Photonics - one of which must be chosen. The focus area Electronics comprises the compulsory modules Major Electronics and Minor Photonics and Nanotechnology. The focus area Photonics comprises the

compulsory modules Major Photonics and Minor Electronics and Nanotechnology. In addition, students must select one of the following elective compulsory modules for each focus area:

1. German as a foreign language - Beginners,
2. Current Topics in Materials Science,
3. Career Paths, and
4. General Studies.

§ 5

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

(1) The Master's thesis requires 750 hours of work, takes 19 weeks to complete, and is worth 25 credit points. In individual cases, the Examination Committee may, upon a justified request by the student, extend the processing time by a total of no more than eight weeks as an exception.

(2) The student must submit two typed and bound copies of the Master's thesis as well as a digital version on a suitable storage device.

(3) The Master's examination shall include a colloquium. The colloquium shall run for 45 minutes. 5 credit points are awarded.

§ 6

Weighting for the final and overall grades

(1) When calculating the final grade, the grade for the Master's thesis shall be weighted four-fold 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.

§ 7

Additional information

The chosen focus area shall be indicated on the examination certificate. At the student's request, the examination certificate shall also indicate the grades for additional modules, as well as the corresponding credit points; furthermore, the supplement to the certificate shall list the grades for examinations in additional modules.

§ 8

Master's degree

Once the Master's examination has been passed, the Master of Science (M.Sc.) degree shall be awarded. Students who have made use of the option under § 2 para. 2, sentence 2 shall be awarded the Master's degree jointly with the partner institutions.

§ 9

Transitional provisions

(1) This version of the Specific Examination Regulations shall apply for the first time to students newly enrolled in the Master's degree program in Sustainable Electronics and Photonics in the 2026/2027 winter semester.

(2) For students who were enrolled in the Master's program in Organic and Molecular Electronics prior to the 2026/2027 winter semester, the version of the examination regulations for the consecutive Master's program in Organic and Molecular Electronics dated April 28, 2019 (Official Announcements of TU Dresden No. 9/2019 of May 23, 2019, p. 540), as amended by the Statute of April 24, 2026 (Official Announcements of TU Dresden No. 4/2026 dated May 29, 2026, p. 161 of the First Statute Amending the Examination Regulations for the Consecutive Master's Program in Organic and Molecular Electronics, shall continue to apply.

(3) In deviation from the first sentence of paragraph 2, § 23 of the General Examination Regulations shall apply with effect from the 2026/2027 winter semester.

§ 10

Entry into force

These Examination Regulations entered into force on June 1, 2026.

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

Dresden, as of April 24, 2026

The Rector
of Technische Universität Dresden

Prof. Ursula M. Staudinger