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Technische Universität Dresden  
Faculty of Physics

## **Regulations for assessing the aptitude for the consecutive Master's degree program Physics (Aptitude Assessment Regulations Physics)**

As of February 13, 2025  
(translated version)

On the basis of § 18 para. 11 of the Saxon Higher Education Act (SächsHSG) in the version published on May 31, 2023 (SächsGVBl. p. 329), last amended by Article 2 of the Act of January 31, 2024 (SächsGVBl. p. 83) Technische Universität Dresden issues the following aptitude assessment regulations as statutes,

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## **§ 1**

### **Scope of application**

This regulation governs the assessment of the admission requirements (aptitude test) for the consecutive Master's degree program in Physics at Technische Universität Dresden on the basis of the provisions of the applicable Saxon Higher Education Act.

## **§ 2**

### **Admission requirements**

According to § 3 of the study regulations for the Master's degree program in Physics, applicants are qualified for the program and thus eligible for admission if they can demonstrate that they meet the following requirements:

1. a first professionally qualifying university degree that is recognized in Germany or a degree from a state or state-recognized university of cooperative education in the field of physics or a degree program with a closely related subject area,
2. proficiency in English at level B2 of the Common European Framework of Reference for Languages (CEFR) and,
3. the special aptitude for studying in the consecutive Master's degree program in Physics in accordance with § 5 through a sound knowledge of the basics in experimental physics and theoretical physics, the associated mathematical principles, and experience in practical physics work.

## **§ 3**

### **Admissions Committee**

(1) An Admissions Committee shall be set up to assess the admission requirements in accordance with § 2. The Dean of the Faculty of Physics shall appoint the Admissions Committee for the respective application period at the suggestion of the Studies Commission. As a rule, it consists of three university professors or persons authorized to teach independently, as well as a student representative of the Faculty of Physics.

The Admissions Committee shall decide on whether the admission requirements pursuant to § 2 have been fulfilled, invite applicants to an assessment interview if necessary, and decide on appeals against decisions made as part of this procedure. In addition, the Admissions Committee is responsible for the development and publication of the application form in accordance with § 4 para. 2 no. 1.

## **§ 4**

### **Application and deadlines**

(1) The formal application for the aptitude test, together with all documents in accordance with para. 2, must be submitted within the following deadlines and in the following form:

1. Applicants with a university degree obtained in Germany (entrance qualification for a Master's degree) are required to upload the application for the aptitude assessment procedure and all documents listed in para. 2 to the portal for registering for the aptitude assessment procedure at the Faculty of Physics after completing the online application for the degree program.

Applicants with a university degree obtained abroad (entrance qualification for a Master's degree) are required to apply to uni-assist e.V. and to upload the application for the aptitude test and the documents in accordance with para. 2 in the portal for registration for the aptitude test of the Faculty of Physics.

2. The following deadlines apply to applicants with German citizenship and applicants with citizenship of another EU member state for registration for the aptitude assessment procedure:
  - a) for the winter semester: June 1 to July 15
  - b) for the summer semester: December 1 to January 15
3. The following deadlines apply to applicants with citizenship of a non-EU country for registration for the aptitude assessment procedure:
  - a) for the winter semester: April 1 to May 31
  - b) for the summer semester: October 1 to November 30

(2) The formal application for admission to the consecutive Master's degree program in Physics in English shall include the following documents:

1. Copy of the first degree certificate (including Transcript of Records and Diploma Supplement) or a summary of credits issued by the relevant Examination Office with all academic and examination credits completed so far; If these documents are not available in English or German, an official German or English translation must also be submitted;
2. Copies of the module descriptions (or comparable tables of contents) with a clear assignment to the academic achievements that demonstrate aptitude in accordance with § 5; If these documents are not available in English or German, a German or English translation must be submitted;
3. Proof of English language skills at the advanced B2 level of the Common European Framework of Reference for Languages in accordance with § 2 para. 2 no. 2. Proof of English language skills is deemed to have been provided if
  - a) sufficient English language acquisition can be proven as part of the acquired university entrance qualification (for example, basic or advanced course in English or comparable levels),  
or
  - b) the previous degree program is/was entirely in English, or
  - c) the Test of English as a Foreign Language (TOEFL online) has been passed with a total score of at least 72 points and at least 17 points in each section, or
  - d) the IELTS test has been passed with at least level 5.5 in all sections, or
  - e) the UNiCert test has been passed with at least Level II;
4. a curriculum vitae in tabular form in English with a list of previous education.

(3) Applications that are not received in full, in due form or on time will be excluded from any further proceedings.

(4) If proof of the first professionally qualifying university degree (degree certificate) in accordance with para. 2 no. 1 is not yet available at the time of application, the applicant will also be included in the aptitude assessment procedure in accordance with these regulations if 80% of the credit points required for the university degree have already been proven by certification from the home university. As proof of this, the applicant must submit a corresponding certificate from their university. If this document is not available in English or German, a German or English translation must also be submitted. The necessity of submitting all other evidence mentioned in para. 2 alongside the application and para. 3 remain unaffected by this.

## § 5

### **Proof and determination of special aptitude**

(1) The special qualification for the consecutive Master's degree program in Physics according to § 2 para. 2 no. 3 is given if the proof has been provided in relevant modules that a sound specialized knowledge

1. in the basics of experimental physics in the subject areas of mechanics, thermodynamics, electromagnetism, optics, quantum physics, atomic and molecular physics, as well as in the subject areas of solid-state physics or nuclear physics or particle physics or biophysics,
2. in the basics of theoretical physics in the subject areas of theoretical mechanics, theoretical electrodynamics, theoretical quantum mechanics, as well as in the subject areas of statistical physics or theoretical thermodynamics,
3. in the associated mathematical basics and
4. experiences in physics lab courses, including programming/coding skills,

has been acquired that corresponds to the respective contents of the Bachelor's degree program in Physics at TU Dresden.

(2) The Admissions Committee will first examine whether proof of aptitude has been provided on the basis of the documents enclosed with the application, in particular, the documents pursuant to § 4 para. 2, but only if the admission requirements pursuant to § 2 para. 2 no. 1 and 2 have been fulfilled. If the aptitude has not already been established from the applicant's documents, an assessment interview will be held by the Admissions Committee in accordance with § 6.

## § 6

### **Assessment interview**

(1) The aim of the assessment interview is to determine whether the applicant possesses the required knowledge and skills in accordance with § 5 para. 1, confirming to the applicant's aptitude.

(2) The assessment interview shall take place in a uniformly structured form and shall not last longer than 30 minutes.

(3) The aptitude interview shall be conducted in person or in a suitable online format. At least two members of the Admissions Committee shall participate in the interview, whereby one of the members of the Admissions Committee must be a university professor or a qualified lecturer.

(4) The invitation to the interview shall be issued in good time in written form by the Admissions Committee in accordance with § 3, but at least two weeks before the date of the assessment interview. Costs that the applicant incurs cannot be reimbursed.

(5) A written record of the main content of the aptitude interview shall be prepared, which shall also state the participants, the duration and the result of the interview. The identity of the applicant is verified in the interview by official photo identification.

(6) If the applicants do not attend the assessment interview on the agreed date, they are not entitled to an alternative date. If the applicant has participated in the assessment interview but has not been able to provide proof of special aptitude pursuant to § 2 no. 3, the assessment interview may be repeated the following semester upon request by the applicant. The application must be submitted within the period specified in § 4 para. 1. § 4 para. 2 shall not apply in such cases.

(7) If the applicant can credibly demonstrate that they are not in a position to participate in the assessment interview in the intended form due to a long-term or permanent physical disability or chronic illness, the Admissions Committee shall offer them an alternative form for determining aptitude. For this purpose, the student may be required to submit a medical certificate and, in cases of doubt, an official medical certificate by a public health officer (*Amtsarzt*).

## **§ 7**

### **Notification of aptitude**

(1) If the applicant demonstrates the required aptitude according to § 2, they will receive a notification of aptitude from the Admissions Committee. Applicants shall receive the notification of eligibility in electronic form (e.g. by email as a PDF document attachment). At the applicant's request, written notification will be issued simultaneously. In both cases, this notification of aptitude is to be presented to the Admissions Office or the Unit International Affairs of TU Dresden and is the required form of proof to be admitted to the Master's degree program. It is a prerequisite for enrollment in the consecutive Master's degree program in Physics.

(2) If the applicant is unable to demonstrate the required aptitude in accordance with § 2, the Admissions Committee will also issue a notification to that effect, which must be accompanied by instructions on the right of appeal and sent in electronic form (e.g. by email as a PDF document in the attachment).

(3) If the applicant is unable to present the successful completion of the university degree required in accordance with § 2 para. 1 no. 1 to the Admissions Office or the International Office by the end of the enrollment period, only temporary enrollment will be granted. The duration of this temporary enrollment will be determined by the Admissions Office or the Unit International Affairs. It is usually for one semester.

## **§ 8**

### **Entry into force and publication**

These Aptitude Assessment Regulations shall enter into force one day after their publication in the Official Announcements of Technische Universität Dresden.

Issued based on the resolution of the Faculty Board of the Faculty of Physics as of January 15, 2025, and the approval of the University Executive Board as of January 28, 2025.

Dresden, February 13, 2025

The Rector  
of Technische Universität Dresden

Prof. Dr. Ursula Staudinger