

### Legal note

This document constitutes a non-official translation of the admission regulations for the Master's program "Industrial Mathematics and Data Analysis".

Only the German version (German: Aufnahmeordnung für den Masterstudiengang "Industrial Mathematics and Data Analysis" an der Universität Bremen) dated June 23, 2021 (including all changes as well as corrections) is binding.

Translation: Academic Advisory Office – Mathematics ([www.szmathe.uni-bremen.de](http://www.szmathe.uni-bremen.de))

## **Admission Regulations for the Master's program "Industrial Mathematics and Data Analysis" at the University of Bremen**

From June 23, 2021\*

### § 1

#### **Admission requirements and procedures**

(1) Requirements for admission to the Master's program "Industrial Mathematics and Data Analysis" are:

- a. A first higher education degree qualifying for entry to a profession that was awarded in mathematics, natural sciences, engineering or in another program that does not differ significantly in terms of content, scope and requirements from the above, with course credits of at least 180 credit points (CP) in accordance with the European Credit Transfer and Accumulation System (ECTS), or credits that do not differ significantly in terms of content, scope and requirements.
- b. Proof of at least 90 CP in the area of mathematics.
- c. Proof of at least 24 CP in a technical application subject or in the subject Computer Science.
- d. English language abilities that meet at least the B2 level of the Common European Framework of Reference for Languages (CEFR). This requirement is met if applicants obtained their university entrance qualification or last higher education degree in English.
- e. German language abilities that meet at least the A1 level of the Common European Framework of Reference for Languages (CEFR). This requirement is met if applicants obtained their university entrance qualification or last higher education degree in German.
- f. A letter of motivation in English, which should contain details on the following points:
  - Reasons for the special interests in the Master's program "Industrial Mathematics and Data Analysis" (motivation for the application),
  - Specification of a technical application subject that is intended to be studied.

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\* including corrections dated September 14, 2021 as well as March 14, 2022.

(2) The selection committee decides on the recognition of course credits and/or study programs in § 1 (1) letter a, on the recognition of qualifications in § 1 (1) letter b and letter c, and on the evaluation § 1 (1) letter f.

(3) Students may also apply if the preceding study has not yet been completed by the application deadline, provided that course and examination credits totaling at least 135 CP have been acquired. If the application meets all other admission requirements in § 1 (1) letter a, b, and e, admission can proceed on condition that all course and examination credits for the first higher education degree qualifying for entry to a profession and the proof of language abilities according to § 1 (1) letter c and letter d are completed no later than two weeks after lectures begin for the Master's program. In this case, the corresponding certificates and transcripts, which must also certify that the applicant passed the final examination, must be submitted no later than December 31 (for start of study in the winter semester) or June 30 (for start of study in the summer semester) of the same year.

(4) The Student Office reviews whether the formal admission requirements are met. If the admission requirements necessary for studying are met, the applicant will be admitted to the study program, provided that the number of applications does not exceed the enrollment cap according to § 4 (1).

## § 2

### **Start of the semester**

Applicants for the Master's program "Industrial Mathematics and Data Analysis" will be admitted for either the winter semester or the summer semester at the University of Bremen. Advanced students will be admitted for the respective winter semester or summer semester. The semester starts on October 1 (winter semester) and on April 1 (summer semester), respectively.

## § 3

### **Form and deadline for applications**

(1) The application and the proof according to § 1 are to be submitted electronically by the application deadline. Details can be found on the University of Bremen website at:

[www.uni-bremen.de/master](http://www.uni-bremen.de/master)

(2) The proof referred to in § 3 (3) must be submitted in paper form and, if this involves copies of official documents, in officially certified form upon enrollment, but not later than two weeks after lectures begin for the Master's program. Documents that are not written in German or English must be accompanied by officially certified translations. Only certifications by German authorities can be accepted. The translations must be rendered or verified by a sworn translation agency.

(3) The following proof must be submitted:

- Declaration of acceptance,
- Proof of all admission requirements specified in § 1,
- Proof of English language abilities in accordance with § 1 (1) letter d,
- Proof of German language abilities in accordance with § 1 (1) letter e,
- Curriculum vitae in tabular form,
- Description of study progress to date (course and examination credits in CP, transcript of records or comparable document),

- A letter of motivation in accordance with § 1 (1) letter f.

(4) In the case of an advanced student, the application must also be accompanied by proof of course credits of at least 10 CP that can count toward the Master's program. For an application as advanced student for the summer semester, this proof is to be submitted by October 15 of the previous year if the program has an enrollment cap, and no later than two weeks after the start of the lecture period for programs with no enrollment cap. For an application as advanced student for the winter semester, this proof is to be submitted by April 30 if the program has an enrollment cap, and no later than two weeks after the start of the lecture period for programs with no enrollment cap.

(5) The application deadline is April 30 for the winter semester and October 15 of the previous year for the summer semester. The application deadlines apply for both beginning students and advanced students. The indicated deadlines are final deadlines.

## § 4

### Selection of applicants

(1) The number of students admitted to the program can be limited and will be reset annually where necessary. If the number of applicants who meet the admission requirements in § 1 exceeds the available capacities, a ranking will be created pursuant to § 4 (2) according to which the applicants will be granted admission.

(2) A selection committee according to § 5 evaluates the application documents on the basis of the evaluation table shown in § 4 (3).

(3) The evaluation table for creating the ranking is generated as follows; a total of up to 100 points are awarded, which are divided among the selection criteria as follows:

- A maximum of 80 points for the overall grade of the previous degree or the average grade achieved at the time of application (at least 135 CP). In this regard, the grades are rounded to one digit after the decimal point, according to customary rounding rules, and converted into points as follows:

Grade	Points
up to 1.0	80
1.1 – 1.2	75
1.3 – 1.4	70
1.5 – 1.6	65
1.7 – 1.8	60
1.9 – 2.0	55
2.1 – 2.2	50
2.3 – 2.4	45
2.5 – 2.6	40
2.7 – 2.8	35
2.9 – 3.0	30
3.1 – 3.2	25
3.3 – 3.4	20
3.5 – 3.6	15
3.7 – 3.8	10
3.9 – 4.0	5
from 4.1	0

- A maximum of 20 points for the letter of motivation according to § 1 (1) letter e, with:
  - 20 points if there is a clear and regarding the qualification goal unambiguous explanation,
  - 15 points, if there is a reasonable explanation regarding the qualification goal,
  - 5 points, if the explanation comprehensible discusses the qualification goal.

(4) The selection committee creates a ranking for admission on the basis of the evaluation of the application documents undertaken in accordance with § 4 (3).

(5) A selection with consideration of aspects is possible. Up to five percent of admissions are awarded upon request to applicants for whom non-admission would mean an extraordinary hardship. An extraordinary hardship is considered to exist where the applicant's special social or family circumstances require immediate commencement of study for compelling reasons. The ranking is determined by the degree of extraordinary hardship.

(6) The president of the University of Bremen decides on admission to the study program as well as appeals to admission decisions.

## § 5

### **Selection committee**

A selection committee shall be appointed to perform the duties assigned by these regulations. The members of the selection committee are appointed by the Faculty Council. The Admission Committee consists of

- 3 professors active in the study program,
- 1 member of the non-professorial academic staff and
- 1 student.

The term of office is 2 years for professors and non-professorial academic staff and 1 year for students. All members of the committee have voting rights.

## § 6

### **Effective Date**

These regulations take effect on the day after approval by the president of the University of Bremen. They will be published in the Official Bulletin of the University of Bremen and are valid for admissions starting with the Winter Semester 2022/23.