

The provisions of the General Study and Examination Regulations (ASPO) apply to these study and examination regulations.



**Official Gazette
of the Munich University of Applied Sciences**

Year	Serial
2024	3

**Study and examination
regulations for the bachelor's
degree program
International Management and Digital Engineering
at the Munich University of Applied Sciences dated January 17, 2024**

Based on Art. 9 sentence 1, Art. 80 para. 1, Art. 84 para. 2 and 3, and Art. 96 (1) of the Bavarian Higher Education Innovation Act (BayHIG) of August 5, 2022 (GVBl. p. 414, BayRS 2210-1-3-WK), the Munich University of Applied Sciences issues the following statutes:

**§ 1
Study objective**

The objective of the bachelor's program is to enable students to independently apply scientific knowledge and procedures in the international professional field of industrial engineering.

**§ 2
Start and structure of the program**

- (1) The bachelor's program (first semester) starts in the winter term of an academic year.
- (2) The practical study semester is conducted as the sixth semester.
- (3) Before starting the program, proof of English language proficiency at level B2 must be provided
- (4) ¹Before beginning the program, students must demonstrate language proficiency in German (language level B1). ²This proof may be submitted up until the end of the fifth semester.
- (5) ¹In the fifth semester, each student must take three subject-specific elective modules with a total of 12 credit points. ²The choice of subject-specific elective modules is determined by the study plan.

§ 3

Basic and orientation examinations

- (1) By the end of the second semester students must have taken the examinations in the modules "Introduction to Project and Time Management," "Mathematics – Basic Concepts and Applications," "Material Science and Chemistry," "Technical Drawing and CAD," "Advanced International Business English Skills," and "International Business Management" (basic and orientation examinations) for the first time.
- (2) To be admitted to the fourth semester, students must have successfully completed all modules of the first two semesters.

§ 4

Examination Committee

An examination committee consisting of five professors from the Faculty of Industrial Engineering will be formed for the Bachelor's program in International Management and Digital Engineering.

§ 5

Bachelorthesis

- (1) ¹The topic of the bachelor's thesis may be assigned at the earliest after successful completion of the practical training of the practical study semester; the module work for the practical study semester may also be completed after the start of the bachelor's thesis. ²The period for completing the Bachelor's thesis is six months.
- (2) Paragraph 1, sentence 2 applies accordingly to the repetition of a failed bachelor's thesis with a new topic.

§ 6

Assessment of examinations and overall examination result

- (1) ¹The final grades of the modules are weighted equally for the calculation of the overall examination result. ²The grade for the bachelor's thesis is weighted three times.
- (2) ¹Modules 6.2 Internship and 7.3 Thesis Seminar are assessed in accordance with § 32 (3) sentence 3 ASPO. ²The award of the grade "passed" in each of these modules is a prerequisite for passing the Bachelor's examination.

§ 7

Academic degree

Upon successful completion of the Bachelor's examination, the academic degree of a "Bachelor of Engineering," abbreviated as "B. Eng.," is awarded.

§ 8

Entry into force and transitional provisions

¹These study and examination regulations shall enter into force on October 1, 2024. ²They apply to students who commence their studies in the Bachelor's program in International Management and Digital Engineering in the first semester after the summer semester of 2024.

Appendix Overview of the modules and examinations in the Bachelor's degree program in International Management and Digital Engineering at the Munich University of Applied Sciences

First semester (Block I in accordance with §5 (2) ASPO)

Module number	Module title (English)	SWS	PERFORMANCE POINTS	Type of course	Examination
1.1	Introduction to Project and Time Management	4	5	SU	Written Exam or Module Work
1.2	Mathematics – Basic Concepts and Applications	6	5	SU, U	Written Exam or Module Work
1.3	Material Science and Chemistry	4	5	SU	Written Exam or Module Work
1.4	Technical Drawing and CAD	4	5	SU, U	Written Exam (50%) and Practical Exam (50%)
1.5	Advanced International Business English Skills	4	5	SU	Written Exam or Module Work
1.6	International Business Management	4	5	SU	Written Exam or Module Work

Second semester (Block II according to §5 (2) ASPO)

Module number	Module title (English)	SWS	CREDIT	Type of course	Examination format
2.1	Data Structures and Algorithms	4	5	SU	Written Exam or Module Work
2.2	Advanced Applied Mathematics	4	5	SU	Written Exam or Module Work
2.3	Fundamentals of Electricity	4	5	SU	Written Exam or Module Work
2.4	Basics of Technical Mechanics	4	5	SU	Written Exam or Module Work
2.5	Intercultural and Interpersonal Competences	4	5	SU	Written Exam or Module Work
2.6	International Markets and Circular Economy	4	5	SU	Written Exam or Module Work

Third semester

Module number	Module title (English)	SWS	CREDITS	Type of course	Examination
3.1	Software Engineering	4	5	SU	Written Exam or Module Work
3.2	Physics	4	5	SU	Written Exam (50%) and Module Work (50%)
3.3	Machine Components and Devices	4	5	SU	Written Exam or Module Work
3.4	Integrated Product Design	4	5	SU, U	Written Exam (50%) and Practical Exam (50%)
3.5	International Marketing and Strategy	4	5	SU	Written Exam or Module Work
3.6	International Accounting	4	5	SU	Written Exam or Module Work

Fourth semester

Module number	Module title (English)	SWS	CREDITS	Type of course	Examination
4.1	Data and Process Engineering	4	5	SU	Written Exam or Module Work
4.2	Procurement and Sustainability	4	5	SU	Written Exam or Module Work
4.3	Control Technology and Smart Grids	4	5	SU	Oral Exam (80%) and Module Work (20%)
4.4	Human factors engineering	4	5	SU	Written Exam or Module Work
4.5	Production Technologies and Applications	4	5	SU	Written Exam or Module Work
4.6	Production Logistics and Quality Management	4	5	SU	Written Exam or Module Work

Fifth semester

Module number	Module title (English)	SWS	CREDITS	Type of course	Examination
5.1	Distributed Systems	4	5	SU	Written Exam or Module Work
5.2	General Studies	4	4	§ 7 para. 2 ASPO	§ 7 (2) ASPO
5.3	Departmental Elective I	3 or 4	4	SU	Written and/or Oral Exam and/or Module Work and/or Presentation
5.4	Departmental Elective II	3 or 4	4	SU	Written and/or Oral Exam and/or Module Work and/or Presentation
5.5	Departmental Elective III	3 or 4	4	SU	Written and/or Oral Exam and/or Module Work and/or Presentation
5.6	International Finance	4	5	SU	Written Exam or Module Work
5.7	Production Management and Logistics	4	5	SU	Written Exam or Module Work

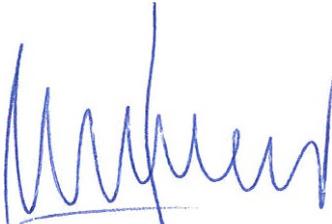
Sixth semester

Module number	Module title (English)	SWS	CREDITS	Type of course	Examination
6.1	Machine Learning in Python	4	5	SU	Written Exam or Module Work
6.2	Internship (20 weeks, 4 days each)		20		Module Work
6.3	Industry Project and Research Skills	4	5	Practical	Module Work

Seventh semester

Module number	Module title (English)	SWS	CREDITS	Type of course	Examination
7.1	Industrial Internet of Things	4	5	SU	Written Exam or Module Work
7.2	Bachelor thesis		12		Module Work
7.3	Thesis Seminar	2	2	S	Module Work
7.4	Entrepreneurial Thinking	4	5	SU	Written Exam or Module Work
7.5	Organizational Behaviour within International Companies	4	5	SU	Written Exam or Module Work

Issued on the basis of the resolution of the Senate of the Munich University of Applied Sciences on December 13, 2023, and the approval of the President of the Munich University of Applied Sciences on January 16, 2024.



Prof. Dr. Martin Leitner
President

The study and examination regulations for the Bachelor's degree program in International Management and Digital Engineering at Munich University of Applied Sciences were published on January 17, 2024, in the Munich University of Applied Sciences Official Gazette for the year 2024 under serial number 3.

The date of publication is therefore January 17, 2024.

Munich University of Applied Sciences
Lohstraße 34
80335 Munich

Munich, January 17,
2024

Gri/MH

ANNOUNCEMENT

The study and examination regulations for the bachelor's degree program in International Management and Digital Engineering at the Munich University of Applied Sciences, dated January 17, 2024, and executed on January 17, 2024, are hereby announced.

The study and examination regulations for the Bachelor's degree program in International Management and Digital Engineering at the Munich University of Applied Sciences were published in the Official Gazette 2024 of the Munich University of Applied Sciences, serial no. 3.

On behalf of


Grieser