HOCHSCHULE HEILBRONN

The following admission regulations were examined and adopted in the 459th meeting of the Senate on 15 October 2025.

Only the German version of this document is legally binding!

Prof. Dr. Ulrich Brecht
Vice-Rector for Learning and Teaching

Admission regulations of Heilbronn University regarding the selection procedure for the master's degree programmes

Automotive Systems Engineering

Electrical Systems Engineering

Mechanical Engineering

Mechatronics and Robotics

Artificial Intelligence and Industrial Digitalization

dated 29 September 2025

On the basis of Sections 59 (1) sentence 2, 63 (2) sentences 1 and 3, 19 (1) sentence 2 number 10 of the State Higher Education Act (LHG) in its currently valid version, as well as §§ 6 to 9 of the Higher Education Admission Act (HZG) of 15 September 2005 (GBl. p. 629) in its currently valid version, and §§ 19 et seq. of the Higher Education Admission Ordinance (HZVO) of 2 December 2019 (GBl. p. 489), the Senate of Heilbronn University adopted the following statutes on 15 October 2025.

§ 1 Scope

(1) These statutes apply to the selection procedure for the above-mentioned degree programmes in accordance with § 6 (4) HZG. Study places are allocated after deduction of the advance quotas in accordance with § 6 (4) sentence 6 in conjunction with paragraph 1 sentence 2 number 1 (hardship quota) and number 4 (local ties in the public interest) according to the results of the university's own selection procedure in accordance with the following provisions, in particular the criteria set out in Section 4.

(2) In all other respects, the provisions of the General Admission and Enrolment Regulations of Heilbronn University dated 5 May 2020, in its currently valid version, shall apply.

(3) The Faculty Council shall decide on the offer of English-language courses in the respective Master's programmes by 15 April at the latest for the winter semester and by 15 October at the latest for the summer semester.

§ 2 Selection procedure

(1) Only those who

a) have applied for a place at the university in due time and form,

b) meet the eligibility requirements pursuant to Section 59(1) LHG and

c) are not participating in the allocation procedure within the framework of a quota to be deducted in advance.

(2) If the number of qualified applications exceeds the total number of available study places, the selection committee shall draw up a ranking list in accordance with § 5.

§ 3 Selection committee

(1) A selection committee shall be appointed to prepare the selection decision.

(2) The faculty council of the faculty to which the relevant degree programme is assigned, shall appoint the selection committee. The selection committee shall consist of two members who are full-time academic staff of the faculty. At least one of the two members must belong to the group of professors. The faculty council shall additionally appoint two deputy members from the faculty. Membership of the selection committee shall end upon leaving the respective faculty; the faculty council shall appoint a successor.

§ 4 Admission requirements

To the above-mentioned courses can be admitted if the following requirements are met:

1. Proof of a domestic or foreign university degree, at least a bachelor's degree or equivalent degree within the meaning of Section 29 (2) sentence 3 LHG ("degree") with a workload of at least 210 ECTS credits. Applicants with degrees of at least 180 ECTS credits may only be admitted under the conditions specified in Section 7 (2) if study places are likely to remain available due to non-acceptance of admission in the cases referred to in sentence 1. In order to ensure that the competence objectives are achieved, the number of applicants admitted under sentence 2 shall not exceed 40% of the capacity of the first semester.
2. The first degree relevant for admission under number 1 shall comprise a professionally qualifying degree in engineering or a comparable degree with a predominant engineering component (at least 50% of the course content).
3. Proof of a degree with honours in the university course specified for admission under number 1. A degree with a grade of 2.5 or better is considered a degree with honours. In particularly justified cases, exceptions may be granted if the applicant's previous professional training, professional activities or other special prior knowledge give reason to expect that he or she is particularly suitable for the Master's programme. Exceptions may not exceed 20% of the admission capacity. The selection committee decides on exceptions in a selection interview scheduled for this purpose. The selection interview with at least two members of the selection committee lasts at least 30 minutes and is recorded in writing.

   In the case of a foreign university degree, the existence of a degree with honours may also be assumed if an ECTS grade of "B" or better, determined in accordance with the applicable rules of the European Commission, is provided.

   Applicants who have not yet been issued with a bachelor's degree certificate by the application deadline in accordance with § 2, must enclose with their application the certificate "Provisional bachelor's degree certificate for application for a place in a master's degree programme" in accordance with § 3 No. 11 of the General Admission and Enrolment Regulations of Heilbronn University.

4. Good command of the German language. Notwithstanding § 3 (4) No. 2 of the General Admission and Enrolment Regulations of Heilbronn University, foreign or stateless applicants with a foreign university entrance qualification may submit their application for admission to study with proof of a German language examination for university admission with a minimum overall result of DSH-1 or with a certificate in accordance with the ‘Framework Regulations for German Language Examinations for Studies at German Universities’ (resolution of the HRK of 8 June 2004 and the KMK of 25 June 2004, in its currently valid version) at the GER B1.2/B2 level of the European Qualifications Framework. Excluded from this are applicants who have a German-language school leaving certificate or another German-language university entrance qualification equivalent or a professionally qualifying degree from at least three years of university study with German-language coursework and examinations amounting to at least 180 ECTS or equivalent. The evidence must be submitted in German or English.

5. In the case of an English-language degree programme, the selection committee may,

in justified exceptional cases and subject to the decision of the faculty council pursuant to § 1 (3), decide to deviate from this rule in favour of the applicant if the applicant can demonstrate a good knowledge of the English language. The required English language skills are deemed to have been demonstrated if an English-language school leaving certificate or another English-language university entrance qualification equivalent or a professionally qualifying degree from at least three years of university study with English-language coursework and examinations amounting to at least 180 ECTS or equivalent has been obtained. Proof must be provided in German or English. Furthermore, English language skills can be demonstrated by means of a recognised certification procedure. The certification procedures are listed in Appendix 1 "Certification procedures in English". In addition, § 3 (7) of the general admission and enrolment regulations of 24 April 2024 applies.
In addition, in these cases, written confirmation from two professors from the Faculty of Mechanics and Electronics is required, agreeing to supervise the applicant in the research project and thus enabling the applicant to complete their studies with a focus on research in English.

§ 4a Admission requirements

Admission requirement is the professional aptitude for the respective degree programme.

Applicants are considered to be professionally qualified if, as part of their degree, they have acquired knowledge and skills in accordance with § 4 No. 2 that are equivalent in scope and level to those of the respective undergraduate Bachelor's programme at Heilbronn University and meet the professional requirements for the Master's programme for which admission is being sought. In order to assess their professional suitability, applicants must enclose the application form for the respective degree programme listed in the appendix with their application documents.

The selection committee pursuant to § 3 determines the required competencies based on the information provided in the application form. To this end, a comparison is made between the module catalogue of the first-degree programme or other relevant documents enclosed with the application and the module catalogue of the respective undergraduate Bachelor's degree programme at Heilbronn University.

§ 5 Selection procedure and selection criteria

(1) Study places are allocated based on the results of a selection procedure.

(2) In the selection procedure, the application documents submitted by the applicants are evaluated according to the following criteria:

1. Academic performance (final grade) in the degree relevant for admission under § 4.
2. For every tenth of a grade above 2.5 in the bachelor's degree, the applicant receives ten admission points. The maximum number of points that can be achieved in this way is 150 admission points.
3. The selection committee awards 0 to 70 admission points for the subject-specific skills demonstrated in the application form for the respective degree programme in accordance with the appendix.

(3) The admission points from paragraph 2 no. 2 and paragraph 2 no. 3 are added together.

(4) When allocating study places, applicants with the highest number of admission points are given priority. In the event of a tie, the applicant with the better final grade in accordance with paragraph 2 no. 1 is selected.

§ 6 Application documents

To apply for a study place, a special application for admission must be submitted online. The following documents in German or English must be enclosed with this application:

1. Copies of the original documents of the university degree referred to in § 4 No. 1 and an overview of the subjects with individual grades (transcript of records). If the originals were issued in a language other than German or English, translations into German must be enclosed.

2. Proof of the required language skills by submitting language certificates. The language certificate must be submitted as a copy of the original document.

3. Application form for the respective degree programme for which admission is being sought. The subjects listed herein, including ECTS credits, must correspond to the information provided in the copies.

§ 7 Admission and conditional admission

(1) Applicants with degrees worth 210 ECTS credits will be admitted to the programme after submitting a valid application in accordance with §§ 1 and 6, provided they meet the requirements of § 4 and are selected in accordance with §§ 3 and 5.

(2) Applicants with degrees worth less than 210 ECTS credits, but at least 180 ECTS credits, will receive a conditional admission to the programme after submitting a proper application in accordance with §§ 1 and 6, fulfilling the requirements of § 4 and following the selection decision in accordance with §§ 3 and 5. Conditional admission requires the applicant to acquire the ECTS credits missing to meet the entry requirements (210 ECTS credits) before completing the Master's programme. The missing credits are to be obtained in the Bachelor's programme at Heilbronn University on which the Master's programme is based, in accordance with the decision of the examination board responsible for this programme and in accordance with the provisions of the study and examination regulations.

§ 8 Entry into force

(1) These statutes shall enter into force on the day after their publication in the official announcements of Heilbronn University. Upon entry into force, the statutes of Heilbronn University dated 1 March 2021 shall be repealed.

(2) These admission regulations apply to the degree programmes in Automotive Systems Engineering, Electrical Systems Engineering, Mechanical Engineering, Mechatronics and Robotics for the first time for the admission procedure for the summer semester 2026.
The admission procedure for the Artificial Intelligence and Industrial Digitalization degree programme will commence for the first time after the degree programme has been finalised.

Heilbronn, 15 October 2025

Signed:

Prof. Dr Oliver Lenzen
Rector

The statutes are hereby publicly announced in accordance with the Heilbronn University of Applied Sciences' publication statutes dated 28 June 2017.

Heilbronn, 15 October 2025

On behalf of the Vice-Rectorate for Learning and Teaching

Signed:

Prof. Dr Ulrich Brecht

Appendix to the Admission Regulations of Heilbronn University on the selection process for the Master's programmes

Automotive Systems Engineering

Electrical Systems Engineering

Mechanical Engineering

Mechatronics and Robotics

Artificial Intelligence and Industrial Digitalization

Appendix 1:

Certification procedure in English

Unless English is the applicant's native language, English language proficiency must be demonstrated by achieving a minimum score of 79 on the TOEFL test. The following are recognised as equivalent: First Certificate in English (FCE) with a minimum grade of C (passed), TOEIC test with a minimum score of 730 points or IELTS test level 6.0. or Oxford Test of English with a total score of at least 120 and level B2 in all modules or a minimum of one year's continuous residence in an English-speaking country, as evidenced by studies at an English-speaking university, work certificates or similar documents.

Appendix 2: Application forms

HOCHSCHULE HEILBRONN

Applicant sheet for the
Master's programme
Automotive Systems Engineering

Name	Email	Signature

First degree / Bachelor	University	Final mark

Items 1) or 2) below must be completed by the applicant and will be included in the application process.

1) The Bachelor's degree was obtained at Heilbronn University in the degree programme (please tick the box)

Automotive Systems Engineering	☐	Electrical Systems Engineering	☐	Elektronik und Informationstechnik	☐		
Maschinenbau	☐	Mechatronik und Robotik	☐	Mechatronik und Mikrosystemtechnik	☐		
Robotik und Automation	☐	Intelligent Mechatronic Systems	☐	Künstl. Intelligenz u. ind. Digitalisierung	☐		

2) If no information is given under 1), the following competence information is required.

ToDo 1: Indicate your subjects according to the competencies in the table below.
ToDo 2: Write the number from the "No." column in red next to the respective subject on your enclosed transcripts/grades. We use this information to track your entries in the table.

You must have carefully completed ToDo1 and 2 in order to participate in the place allocation process. Duplicate entries are not permitted.

Fundamentals of Engineering from the main study	**No.**	**Please fill in subjects**	**ECTS**
Measurement and Control engineering (e.g. measurement tech. and sensor tech., signals and systems, control engineering including laboratory work)	**1**		
	2		
	3		
Information technology (e.g. software engineering, microcontroller, signal transmission technology)	**4**		
	5		
	6		
Simulation tech-nology / modelling (e.g. simulation techniques incl. lab, modelling of technical systems incl. lab, dynamic of systems)	**7**		
	8		
	9		
		Total	
Specializations from the main study	**No.**	**Please fill in subjects**	**ECTS**
Electronic Systems (e.g. embedded systems, distributed systems, circuit design)	**10**		
	11		
	12		
Mechanical Systems (e.g. drive train, multi-body dynamics simulation, chassis systems)	**13**		
	14		
	15		
		Total	

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Applicant sheet for the
Master's programme
Electrical Systems Engineering

HOCHSCHULE HEILBRONN

Name	Email	Signature

First degree / Bachelor	University	Final mark

Items 1) or 2) below must be completed by the applicant and will be included in the application process.

1) The Bachelor's degree was obtained at Heilbronn University in the degree programme (please tick the box)

Automotive Systems Engineering	☐	Electrical Systems Engineering	☐	Elektronik und Informationstechnik	☐		
Maschinenbau	☐	Mechatronik und Robotik	☐	Mechatronik und Mikrosystemtechnik	☐		
Robotik und Automation	☐	Intelligent Mechatronic Systems	☐	Künstl. Intelligenz u. ind. Digitalisierung	☐		

2) If no information is given under 1), the following competence information is required.

ToDo 1: Indicate your subjects according to the competencies in the table below.
ToDo 2: Write the number from the "No." column in red next to the respective subject on your enclosed transcripts/grades. We use this information to track your entries in the table.

You must have carefully completed ToDo1 and 2 in order to participate in the place allocation process. Duplicate entries are not permitted.

Fundamentals of Engineering from the main study	**No.**	**Please fill in subjects**	**ECTS**
Circuit technology and development (e.g. circuit development, circuit simulation, simulation technology)	**1**		
	2		
	3		
Advanced electrical engineering (e.g. high frequency technology, signal transmission, digital signal processing)	**4**		
	5		
	6		
Measurement and Control engineering (e.g. signals and systems, control engineering incl. laboratory, measurement technology and sensor technology)	**7**		
	8		
	9		
		Total	
Specializations from the main study	**No.**	**Please fill in subjects**	**ECTS**
Information technology (e.g. image processing, digital technology, software-supported measurement)	**10**		
	11		
	12		
Electrical drives / Power electronics (e.g electrical drives, power electronics, power converters and components)	**13**		
	14		
	15		
		Total	

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Applicant sheet for the Master's Programme Mechanical Engineering

HOCHSCHULE HEILBRONN

Name	Email	Signature

First degree / Bachelor	University	Final mark

Items 1), 2) or 3) below must be completed by the applicant and will be included in the application process.

1) The Bachelor's degree was obtained at Heilbronn University in the degree programme (please tick the box)

Automotive Systems Engineering	☐	Electrical Systems Engineering	☐	Elektronik und Informationstechnik	☐		
Maschinenbau	☐	Mechatronik und Robotik	☐	Mechatronik und Mikrosystemtechnik	☐		
Robotik und Automation	☐	Intelligent Mechatronic Systems	☐	Künstl. Intelligenz u. ind. Digitalisierung	☐		

2) The bachelor's degree was obtained at a German university or University of Applied Sciences or DHBW in the study program Mechatronics ☐

3) If no information is given under 1) or 2), the following competence information is required.

ToDo 1: Indicate your subjects according to the competencies in the table below.
ToDo 2: Write the number from the "No." column in red next to the respective subject on your enclosed transcripts/grades. We use this information to track your entries in the table.

You must have carefully completed ToDo1 and 2 in order to participate in the place allocation process. Duplicate entries are not permitted.

Fundamentals of Engineering from the main study	**No.**	**Please fill in subjects**	**ECTS**
Design (e.g. design engineering, strength of materials, CAD)	**1**		
	2		
	3		
Thermal and fluid dynamics (e.g. fluid mechanics, thermodynamics, fluid technology)	**4**		
	5		
	6		
Measurement and control technology (e.g. measurement tech. and sensor tech., signals and systems, control engineering)	**7**		
	8		
	9		
		Total	
Specialisations from the main course of study	**No.**	**Please fill in subjects**	**ECTS**
Materials Processing and Engineering (e.g. materials engineering, machine tools, finite elements)	**10**		
	11		
	12		
Robotics and automation (e.g. automation technology, robotics, advanced control engineering)	**13**		
	14		
	15		
Automotive Engineering (e.g. combustion engines, electric drive systems, computational fluid dynamics)	**16**		
	17		
	18		
		Total	

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Applicant sheet for the Master' Programme Mechatronics and Robotics

HOCHSCHULE HEILBRONN

Name	Email	Signature

First degree / Bachelor	University	Final mark

Items 1), 2) or 3) below must be completed by the applicant and will be included in the application process.

1) The Bachelor's degree was obtained at Heilbronn University in the degree programme (please tick the box)

Automotive Systems Engineering	☐	Electrical Systems Engineering	☐	Elektronik und Informationstechnik	☐
Maschinenbau	☐	Mechatronik und Robotik	☐	Mechatronik und Mikrosystemtechnik	☐
Robotik und Automation	☐	Intelligent Mechatronic Systems	☐	Künstl. Intelligenz u. ind. Digitalisierung	☐

2) The bachelor's degree was obtained at a German university or University of Applied Sciences or DHBW in the study program Mechatronics ☐

3) If no information is given under 1) or 2), the following competence information is required.

ToDo 1: Indicate your subjects according to the competencies in the table below.
ToDo 2: Write the number from the "No." column in red next to the respective subject on your enclosed transcripts/grades. We use this information to track your entries in the table.

You must have carefully completed ToDo1 and 2 in order to participate in the place allocation process. Duplicate entries are not permitted.

Fundamentals of Engineering from the main study	**No.**	**Please fill in subjects**	**ECTS**
Design and technical mechanics (e.g. machine elements, strength of materials)	**1**		
	2		
	3		
Information technology (e.g. software engineering, microcontrollers, network technology)	**4**		
	5		
	6		
Sensors and actuators (e.g. . measurement technology and sensor technology, electrical drive systems, control engineering including laboratory)	**7**		
	8		
	9		
		Total	
Specializations from the main study	**No.**	**Please fill in subjects**	**ECTS**
Mechanical systems in mechatronics (e.g. plastics engineering, mechatronic systems, mechanisms and gearboxes)	**10**		
	11		
	12		
Electronic systems in mechatronics (e.g. electronic systems, advanced control engineering, networked systems)	**13**		
	14		
	15		
Robotics (e.g. kinematics and kinetics of robots, handling and assembly technology, robot technology)	**16**		
	17		
	18		
		Total	

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Application sheet for the
Master's programme
Artificial Intelligence and Industrial Digitalisation

HOCHSCHULE HEILBRONN

Name	Email	Signature
First degree / Bachelor	University	Final mark

Items 1) or 2) below must be completed by the applicant and will be included in the application process.

1) The Bachelor's degree was obtained at Heilbronn University in the degree programme (please tick the box)

Automotive Systems Engineering	☐	Electrical Systems Engineering	☐	Elektronik und Informationstechnik	☐		
Maschinenbau	☐	Mechatronik und Robotik	☐	Mechatronik und Mikrosystemtechnik	☐		
Robotik und Automation	☐	Intelligent Mechatronic Systems	☐	Künstl. Intelligenz u. ind. Digitalisierung	☐		

2) If no information is given under 1), the following competence information is required.

ToDo 1: Indicate your subjects according to the competencies in the table below.
ToDo 2: Write the number from the "No." column in red next to the respective subject on your enclosed transcripts/grades. We use this information to track your entries in the table.

You must have carefully completed ToDo1 and 2 in order to participate in the place allocation process. Duplicate entries are not permitted.

Engineering Fundamentals from the main course of study	**No.**	**Please enter subjects**	**ECTS**
Automation technology (motion control, integrated robotics, etc.)	**1**		
	2		
	3		
Measurement and Control Engineering (e.g. signals and systems, control engineering including laboratory, measurement technology and sensor technology)	**4**		
	5		
	6		
		TOTAL	
Advanced studies from the main course of study	**No**	**Please enter subjects**	**ECTS**
AI (e.g. Introduction to AI, Neural Networks and Deep Learning, Computer Vision, AI in Industrial applications, etc.)	**10**		
	11		
	12		
Smart Factory (e.g. networked machines, digital twins, data science, industrial digitalisation, etc.)	**13**		
	14		
	15		
		TOTAL	

Version dated 7 July 2025