



**Subject-specific study and examination regulations for the continuing education
English-taught master's programme in Artificial Intelligence for Connected
Industries offered by the Faculty of Engineering, Computer Science and
Psychology at Ulm University of 10 June 2025**

Based on § 32 (3) sentence 1 of the Federal State Higher Education Act Baden-Württemberg (*Landeshochschulgesetz*, LHG) in the version of 1 January 2005 (law gazette pages 1 ff, amended several times, last amended by article 24 of the ordinance of 17 December 2024 (law gazette p. 114) and upon approval by the Faculty of Engineering, Computer Science and Psychology, the Senate of the University of Ulm adopted the following subject-specific study and examination regulations for the continuing education English-taught master's programme in Artificial Intelligence for Connected Industries at the Faculty of Engineering, Computer Science and Psychology at its meeting on 21 May 2025.

The President of Ulm University gave his consent on 10 June 2025 in accordance with § 32 (3) sentence 1 of the LHG.

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I. General information

§ 1 Scope of application (§ 1 ASPO)

These subject-specific study and examination regulations for the continuing education English-taught master's programme in Artificial Intelligence for Connected Industries at the Faculty of Engineering, Computer Science and Psychology supplement and specify the provisions of the General Study and Examination Regulations of Ulm University (ASPO).

§ 2 Programme objectives (§ 2 ASPO)

The master's programme in Artificial Intelligence for Connected Industries is a continuing education programme that combines self-study phases with classroom-based phases (blended learning concept). It enables graduates to independently pursue issues in the field of artificial intelligence and networked systems at a high academic level. The study programme combines in-depth knowledge of computer science, engineering and robotics and enables individual specialisation in the development of intelligent systems and the design of networked technologies of the future. Students acquire skills in key areas such as machine learning, automation technology, network systems and sustainable technologies for networked industries. The programme is supplemented by practical project work dealing with current industrial applications and interdisciplinary issues. Particular emphasis is placed on the ability to develop complex technical solutions and present the results in a generally understandable form.

§ 3 Start of the programme (§ 3 ASPO)

Studies start in the winter and summer semesters.

II. Study organisation

§4 Structure and content of the continuing education master's programme in Artificial Intelligence for Connected Industries (§ 4 ASPO)

- (1) The following compulsory and compulsory elective modules must be completed:

No.	Area/module	CP
A	Compulsory Modules¹	36
A1	Thesis²	30
1	Master's thesis	30
A2	Mandatory area Artificial Intelligence	6
B	Compulsory Elective Modules³	min. 54
B1	Systems and Networks	min. 12
B2	Automatics and Robots	min. 12
B3	Processes and Data Management	min. 12
B4	Free Elective Modules	min. 6
	Total	90

- (2) Students must complete modules worth at least 12 CP each in the areas of "Systems and Networks" (B1), "Automatics and Robots" (B2) and "Processes and Data Management" (B3) in accordance with paragraph 1 from the module catalogue provided for this purpose. In the area of "Free Elective Modules" (B4) in accordance with paragraph 1, modules worth at least 6 CP each

¹ Corresponds to "Pflichtbereich" in German

² Corresponds to "Abschlussarbeit" in German

³ Corresponds to "Wahlpflichtbereich" in German

must be completed from the module catalogue provided for this purpose. The 12 CP missing for the completion of the "Compulsory Elective Modules"(B) area can be completed from areas B1 – B4 from the respective module catalogues provided for this purpose. Modules from the "Free Elective Modules" (B4) area are offered by the following partner universities: the Conservatoire National des Arts et Métiers and CNAM Grand Est (France), Avignon Université (France), the Universitat Politècnica de Catalunya (Spain), the National Technical University of Ukraine (Ukraine) and the Universitatea Babeş-Bolyai (Romania).

- (3) Modules from the compulsory elective area are recommended for a mobility window.

§ 5 Types of courses (§ 6 ASPO)

In addition to the types of courses listed in § 6 of the ASPO, course content is offered in the form of online courses in a combined or hybrid format at Ulm University and its partner universities.

§ 6 Deadlines (§ 8 (2) ASPO)

Students who have not completed all the requirements for graduation specified in § 4 (2) by the end of the examination period of the sixteenth semester (deadline: 1 December for the summer semester and deadline: 1 June for the winter semester), lose their right to examination, unless they are not responsible for exceeding the deadline.

III. Exams

§ 7 Practical examinations (§ 14 ASPO)

A practical examination is an examination in which the task is announced at the beginning of the examination. Each examination lasts a minimum of 10 minutes and a maximum of 180 minutes per student.

§ 8 Thesis (§ 18 ASPO)

- (1) Only those students who have passed area A2 in accordance with § 4 (1) and have earned a total of at least 48 CP, or whose application for admission to the master's thesis has been approved by the subject examination board after individual review, may be admitted to the master's thesis.
- (2) The master's thesis corresponds to 30 CP. The time from setting the topic to submitting the master's thesis is twelve months part-time or six months full-time.
- (3) The master's thesis is written in English. After consultation with the examiner, the master's thesis may also be written in German.
- (4) Master's theses are assessed by two examiners. If the master's thesis is graded "not sufficient" (5.0), the work must be assessed by a second examiner.

§ 9 Multiple use of modules

If modules are assigned to several areas, these modules can only be completed in one of the areas. Multiple use of modules within the master's programme is not permitted.

IV. Final provisions

§ 10 Effective date

These study and examination regulations apply with effect from the winter semester 2025/26. They apply to all students who enrol in the master's programme in Artificial Intelligence for Connected Industries in the winter semester 2025/26 or who continue their studies after changing universities or programmes in the winter semester 2025/26.

Ulm, this 10 June 2025

Prof. Dr.-Ing. Michael Weber
-President-

Courtesy translation