

Subject-specific study and examination regulations for the English-taught master's programme in Communication and Information Technology offered by the Faculty of Engineering, Computer Science and Psychology at Ulm University dated 17 December 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 law of 17 December 2024 (law gazette p. 114), the Senate of Ulm University, upon the approval of the Faculty of Engineering, Computer Science and Psychology at Ulm University, adopted the following Subject-specific study and examination regulations (FSPO) for the English-taught master's programme in Communication and Information Technology in its meeting on 10 December 2025.

The President of Ulm University gave his consent on 17 December 2025 in accordance with § 32 (3) sentence 1 of the *LHG*.

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I. General

§ 1 Scope of application (§ 1 ASPO)

This FSPO for the English-taught master's programme in Communication and Information Technology supplements and specifies regulations of the General Study and Examination Regulations of Ulm University (ASPO).

§ 2 Study objectives (§ 2 ASPO)

- 1) ¹The master's programme in Communication and Information Technology focuses on topics from solid fundamentals and state-of-the-art methods to current content in the fields of integrated mixed-signal and RF circuits, RF engineering and radar design, wireless communication, signal processing, optical communication devices and machine learning. ²The aim is to enable graduates to work independently in scientific research, plan research processes and develop solution strategies. ³This qualifies graduates for scientific work and responsible behaviour in their professional activities and in society.
- 2) Successful completion of this programme enables graduates to
 - a abstract and formulate complex problems from a new or developing field,
 - b apply innovative methods in basic problem solving and develop new scientific methods,
 - c develop concepts and solutions to complex and sometimes unusual problems,
 - d create and develop new works, products, processes and methods,
 - e apply their scientific judgement to work with complex and possibly incomplete information, recognise contradictions and deal with them.

§ 3 Start of the programme (§ 3 ASPO)

Studies in the master's programme in Communication and Information Technology begin in the summer semester.

II. Study organisation

§ 4 Language of instruction and examinations (§ 4 ASPO)

The language of instruction and examinations is English.

§ 5 Organisation and content of the master's programme in Communication and Information Technology (§ 4 ASPO)

- 1) The following compulsory, compulsory elective and complementary modules must be completed in the master's programme in Communication and Information Technology:

No.	Area/module	CP
A	Compulsory area¹	30
A1	Thesis²	30
1	Master's thesis	30
B	Compulsory elective area³	min. 68
B1	Core Modules Communication and Information Technology	min. 22
B2	Specialisation Modules Communication and Information Technology	min. 33
B3	Seminar	min. 3
B4	Practical Modules	min. 10
C	Complementary area⁴	min. 16
C1	Language skills and elective key competences	min. 8
C2	Interdisciplinary competences	min. 8
	Total ECTS	min. 120

- 2) In the compulsory elective area B, at least 68 ECTS credits must be completed from areas B1 - B4 from the module catalogues provided for this purpose.
- 3) ¹In the area of Core Modules Communication and Information Technology (B1), at least 22 CP must be completed from the module catalogue provided for this purpose. ²In the area of Specialisation Modules Communication and Information Technology (B2), at least 33 CP must be completed from the module catalogue provided for this purpose. ³In the compulsory elective area Seminar (B3), modules amounting to at least 3 CP and, in the compulsory elective area Practical Modules (B4), modules amounting to at least 10 CP each must be completed from the module catalogues provided for this purpose.
- 4) In the complementary area (C1), modules from the Humboldt Study Centre for Philosophy and Humanities and the Centre for Languages and Philology amounting to at least 8 CP must be completed. ²English language courses below language level C2 cannot be selected. ³In addition, modules from the entire range of courses offered at Ulm University (excluding those offered by the Humboldt Study Centre for Philosophy and Humanities and the Centre for Languages and Philology) amounting to at least 8 CP must be completed in the complementary area (C2). ⁴Only modules at master's level may be selected from the engineering sciences.
- 5) The 6 CP missing for the degree can be chosen from the areas B1, B2, B4 as well as C1 and C2.
- 6) The compulsory elective areas and the complementary area are recommended for a mobility window.

¹Corresponds to "Pflichtbereich" in German

²Corresponds to "Abschlussarbeit" in German

³Corresponds to "Wahlpflichtbereich" in German

⁴Corresponds to "Ergänzungsbereich" in German

§ 6 Multiple use of modules

If modules are assigned to several areas, these modules can only be completed in one of the areas.

§ 7 Compulsory attendance at courses (§ 7 ASPO)

¹For all courses, especially those with practical components, compulsory attendance may be required as part of the study achievement. ²At the beginning of the respective course, the person responsible for teaching will announce publicly within the faculty (learning platform) on which dates compulsory attendance is essential to achieve learning success. ³Students who are not 100% present on these dates will not be admitted to the corresponding module examination or will not have fulfilled the study achievement. ⁴If there are reasons for absences for which the student is not responsible, then

- a. the absence can be compensated for by a competency-based substitute achievement,
- b. individual classes can be made up for,
- c. parts already completed from previous courses can be credited.

⁵The course responsible will check whether compensation is possible in accordance with sentence 3.

⁶If no substitute performance is offered/individual event is made up for or not fulfilled or if crediting is excluded, the achievement is deemed to not be completed.

§ 8 Deadlines (§ 8 (1) and (2) ASPO)

Students who have not earned 30 credit points in the master's degree programme in Communication and Information Technology by the end of the second examination period of the second semester (deadline is 1 December for the summer semester and 1 June for the winter semester) lose the right to examination, unless the student is not responsible for missing the deadline.

§ 9 Related study programmes (§ 10 (4) ASPO)

Degree programmes related to the Communication and Information Technology programme are those in which the subject areas of electronics, communications engineering and high-frequency engineering cover at least 75% of the content and scope.

III. Exams

§ 10 Thesis (§ 18 ASPO)

- 1) Students may only be admitted to the master's thesis if they have earned at least 75 CP from the modules listed in § 5.
- 2) The master's thesis corresponds to 30 CP. This includes a graded presentation (2 CP) including a discussion on the topic of the master's thesis. The presentation is held in the presence of the examiners of the master's thesis. The time from the admission to the submission of the master's thesis is six months.
- 3) One of the examiners of the master's thesis must be assigned to the engineering discipline.
- 4) The master's thesis can only be completed outside the University in justified individual cases with the approval (prior consent) of the subject examination board of the engineering degree programmes (Communication and Information Technology). For this purpose, the student must submit a plan of the thesis for approval. The subject examination board must check, in particular, whether the planned external thesis project complies with the scientific principles of the study course in Communication and Information Technology.
- 5) The master's thesis is written in German or English in consultation with the examiners.

§ 11 Final grade (§ 24 (6) ASPO)

The thesis module (30 CP) and the best module grades from the compulsory elective areas B1 (22 CP) and B2 (33 CP) count towards the overall grade of the master's programme in accordance with § 5 (1), each with the minimum number of credit points (55 CP in total). The module with which the respective limit is exceeded is weighted proportionately.

§ 12 Specialisations

Modules can be assigned to specialisations. Individual modules can be assigned to specialisations. Students who successfully complete the modules assigned to a specialisation will receive proof of this with their final degree documents.

IV. Final provisions

§ 13 Effective date

- 1) These study and examination regulations apply with effect from the start of the summer semester 2026. The subject-specific study and examination regulations for the English-taught master's programme in Communication and Information Technology at the Faculty of Engineering, Computer Science and Psychology at Ulm University dated 18 January 2021, published in the Official Bulletin of Ulm University No. 3 dated 25 January 2021, pages 16 - 22, shall expire at the same time, subject to paragraph 2.
- 2) ¹For students who are enrolled in their master's programme in Communication and Information Technology in the winter semester 2025/26, the subject-specific study and examination regulations for the master's programme in Communication and Information Technology dated 18 January 2021 will continue to apply on a transitional basis. ²At the end of the second examination period of the winter semester 2029/30 (effective date: 1 June 2030), the subject-specific study and examination regulations for the master's programme in Communication and Information Technology of the Faculty of Engineering, Computer Science and Psychology at Ulm University dated 18 January 2021, published in the Official Bulletin of Ulm University No. 3 dated 25 January 2021, pages 16 - 22, will finally expire. ³The students referred to in sentence 1 will then continue the programme pursuant to paragraph 1 sentence 1 of these study and examination regulations. ⁴The subject examination board shall decide on the recognition of achievements already completed by then.

Ulm, 17 December 2025

signed

Prof. Dr.-Ing. Michael Weber

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