Subject-specific Examination Regulations for the Master's Degree Programmes Computer Science and Computer Science – Dual Study at Kaiserslautern University of Applied Sciences in the version of January 20, 2025

(published in the *Hochschulanzeiger* No. 1/2025 dated January 31, 2025, p. 15)

This English translation serves solely for information purposes. Please note that only the German version is legally binding.

This unofficial reading version applies to all students of the Master's degree programmes Computer Science and Computer Science – Dual Study who enrol in the programme starting in the summer semester 2025.

Students who began their studies at an earlier point in time can get information at the Examination Office about the version applicable to them and a possible transfer to this new version.

For information purposes: In the portal/QIS, the name PO 2025 is used (PO being the German abbreviation for *Prüfungsordnung* = Examination Regulations).

Pursuant to Sec 7 (2) No. 2 in conjunction with Sec 86 (2) No. 2 of the German Higher Education Act (HochSchG) in the version dated September 23, 2020 (GVBl. p. 461), last amended by the Act dated July 22, 2021 (GVBl. p. 453), BS 223-41, the Faculty Council of the Faculty of Computer Science and Microsystems Technology passed the following Subject-specific Examination Regulations for the Master's degree programmes Computer Science and Computer Science – Dual Study on December 11, 2024. The Senate of Kaiserslautern University of Applied Sciences commented on this on January 15, 2025, and the Presidential Board approved these Subject-specific Examination Regulations on January 16, 2025. They are hereby published in accordance with Sec 7 (6) HochSchG.

Content

Sec 1 Area of Applicability of these Subject-specific Examination Regulations

(1) These subject-specific examination regulations govern the subject-specific prerequisites for participation in examinations, the examination requirements and the examination procedure for the Master's degree programmes Computer Science and Computer Sciences – Dual Study at Kaiserslautern University of Applied Sciences. Examination regulations that apply across degree programmes are specified in the General Master's Examination Regulations of Kaiserslautern University of Applied Sciences (AMPO). The AMPO shall apply unless otherwise provided for in these Regulations. In particular, the AMPO contain provisions on the following aspects:

- Purpose of the Master's Examination (Sec 2 AMPO)
- Examination Board (Sec 3 AMPO)
- Examiners and Assessors, Master's Thesis Supervisors (Sec 4 AMPO)
- General Admission Conditions and Admission Procedure (Sec 5 AMPO)
- Types and Forms of Examinations, Module Examination, Deadlines, Learning Support Measures (Sec 6 to Sec 9b AMPO)
- Master's Thesis and Colloquium (Sec 10 and Sec 11 AMPO)
- Assessment of Exams and Module Examinations (Sec 12 AMPO)
- Examination Procedure and Credit for Graded Exams and Academic Achievements (Sections 13 – 16 AMPO)
- Scope of Master's Examination, Calculation of Overall Grade, Transcript of Records and Certificate (Sec 17 and Sec 19 AMPO)

(2) The Annexes listed in the Table of Content are an integral part of these Subject-specific Examination Regulations.

Sec 2 Type of Degree Programmes and Academic Degree

(1) These Master's degree programmes are application-oriented, scientific degree programmes leading to a second academic degree that qualifies the graduate for a profession.

(2) Upon successful completion of the Master's examination in the Master's degree programmes, the academic degree "Master of Science" (abbreviated as "M.Sc.") is awarded.

Sec 3 Start of Studies, Regular Duration of Studies, Scope and Structure of Courses Offered

(1) Studies can be started in the summer semester or in the winter semester.

(2) The time frame during which the studies in the Master's degree programmes can generally be completed (regular duration of studies) is three semesters (full-time degree programme). Overall, a total workload corresponding to 90 ECTS (European Credit Transfer System) credits is assigned to these degree programmes. Each ECTS credit represents a workload of 30 hours.

(3) The courses offered extend over two semesters. Within the scope of the Master's degree programme Computer Science, compulsory modules worth 66 ECTS credits and compulsory elective modules worth at least 24 ECTS credits must be completed. Within the scope of the Master's degree programme Computer Science – Dual Study, compulsory modules worth 78 ECTS credits and compulsory elective modules worth at least 12 ECTS credits must be completed. These modules and the graded exams and academic achievements required by Sec 14 (1) AMPO for passing the Master's examination are listed in Annex 1. Compulsory modules are compulsory for all students; compulsory elective modules are modules that students can select from the respective catalogue of compulsory elective modules in accordance with Sec 8.

(4) The degree programme is offered in the specialisations "Machine Learning and Software Engineering" and "Human Computer Interaction". The specialisation (focus) is chosen at the time of application. The specialisation can be changed once during the degree programme upon application no later than four weeks before the start of the semester. The chosen specialisation is shown on the Transcript of Records.

(5) The degree programme Computer Science – Dual Study is a dual study (career-integrated) degree programme in accordance with Sec 20 (3) HochSchG, which is characterised by the integration of study and practical work phases in terms of content, organisation and contract. The degree programme can be studied in an English-language version; the options with regard to compulsory elective modules are fewer in this case (Sec 8 (5)). Additional admission requirements apply in accordance with Sec 5 (7) and (8).

(6) Sufficient proficiency in the English language is a prerequisite for understanding course content and taking examinations in English. German and English are permitted as examination languages. The examination language is generally the language in which the corresponding courses are held. The examination language is announced at the beginning of the course.

Sec 4 Part-Time Degree Programme

(1) The Master's degree programme Computer Science can also be studied part-time with a study duration of five semesters. The workload per semester is between 12 and 15 ECTS credits, with the exception of the semester for the completion of the Master's thesis and the colloquium about the Master's thesis, which is worth 30 ECTS credits. The course of the part-time degree programme in the Master's degree programme Computer Science is shown in Annex 2 (Study Plan).

(2) Part-time students attend the same courses and take the same examinations as full-time students. The times for the completion of examinations remain unaffected unless otherwise regulated in these Subject-specific Examination Regulations.

(3) An application for part-time study must be submitted together with the application for the degree programme or once during the course of the study at the latest four weeks prior to the start of the semester in which part-time study is to be undertaken for the first time. Any further application for part-time study is only possible in particularly justified cases (for example, taking care of relatives in need of care, bringing up a child, job). Part-time study is excluded in the case of double degree programmes (enrolment in more than one degree programme, with the exception of the possibility pursuant to Sec 19 (3) HochSchG). A return to full-time study is possible upon application, with the corresponding notice period according to Sentence 1.

Sec 5 Admission Requirements for the Master's Degree Programmes

(1) A special requirement for admission to the Master's degree programmes Computer Science and Computer Science – Dual Study is proof of completion of

a. a higher education degree qualifying the graduate for a profession, in a degree programme worth 210 ECTS credits, in one of the degree programmes Applied Computer Science, Media Informatics, Medical Informatics, Digital Media Marketing, Digital Engineering at Kaiserslautern University of Applied Sciences,
b. a subject-related degree programme of a corresponding scope

with a grade of at least 2.5 or better.

(2) The Head of the degree programme and another person appointed by the Examination Board in accordance with Sec 4 (2) AMPO shall jointly determine the subject-relatedness according to criteria relating to content.

(3) Programme applicants with a final grade of less than 2.5 can submit an application for an oral aptitude interview. The application must contain the reasons for why the student intends to take up the degree programme and an explanation of the objectives of their studies. The Head of the degree programme and the dean shall make the decision on whether to admit the applicant to the aptitude interview. The examiners in the aptitude interview are the Head of the degree programme and another person appointed by the Examination Board in accordance with Sec 4 (2) AMPO. The Head of the degree programme shall issue the invitation to the aptitude interview. Sec 7 and the regulations of the AMPO apply accordingly to the aptitude interview. If the aptitude interview is assessed as passed, admission shall be granted; if the aptitude interview is not passed, the requirements for admission are not met and admission will be refused.

(4) Programme applicants who provide proof of a degree in accordance with Para. (1) with fewer than 210 ECTS credits, but at least 180 ECTS credits, may be admitted on condition that they complete a further 30 ECTS credits. This can be fulfilled, for example, by acquiring additional ECTS credits from the catalogue of compulsory elective modules, through credit for qualified professional activities or through a mobility module amounting to 30 ECTS credits. The Head of the degree programme and another person appointed by the Examination Board in accordance with Sec 4 (2) AMPO shall jointly determine the condition; proposals from admitted students that are justified in terms of the subject matter may be taken into consideration. Upon admission, applicants shall be informed in writing that an additional 30 ECTS credits must be earned. The missing ECTS credits must be earned the latest by the time the Master's thesis is registered. If applicants so request, they can also complete the degree programme without meeting these conditions. By submitting such an application, applicants declare that they are aware that a waiver may result in disadvantages in their professional or academic career.

(5) Subject to the application of Sec 5 (1) Sentences 2 to 5 AMPO, admission to the degree programme is also possible before completion of a degree programme in accordance with Para. (1). The total amount of

graded exams and academic achievements not yet completed may amount to up to 10 ECTS credits. In addition, proof of passing the final thesis (e.g. Bachelor's thesis or German Diplom thesis) belonging to the relevant degree programme may still be outstanding, provided that it has been duly registered and started. For applicants who provide proof of a higher education degree qualifying them for a profession that is worth fewer than 210 ECTS credits in accordance with Para. (2), Sentences 1 to 3 shall only apply if the missing graded exams and academic achievements have already been completed and only the results are still pending.

(6) All applicants whose native language is not German and who have not completed the requirements for admission in a German-language degree programme must demonstrate the required proficiency in the German language in accordance with the Enrolment Regulations.

(7) Applicants for the English-language version of the Master's degree programme Computer Science – Dual Study whose native language is not German and who did not complete the requirements for admission in a German-language degree programme need to have German language skills of at least level B1 according to the "Common European Framework of Reference for Languages" (CEFR) at the time of the application in order to be admitted to the degree programme. Applicants whose native language is not English and who did not complete the requirements for admission in an English-language degree programme need to have good English language skills the latest at the time of application, at least at level B2 according to the "Common European Framework of Reference for Languages" (CEFR), TOEIC Listening 400 and Reading 385, TOEIC Speaking 160 and Writing 150, TOEFL iBT 87, TOEFL ITP 543, IELTS 6.0 or equivalent.

(8) As a special requirement for admission to the Master's degree programme Computer Science – Dual Study, programme applicants must provide evidence of an existing contractual relationship with a company cooperating with the Master's degree programme. This contractual relationship must exist for the duration of the degree programme. Students are obligated to inform the university immediately if their contractual relationship is terminated. Re-registration for the semester following the termination of the contractual relationship shall be refused. Continuation of studies in a non-dual degree programme shall remain possible, provided the admission requirements are met.

Sec 6 Examination Board

(1) The Examination Board comprises:

1. three professors,
2. one member from the group of students pursuant to Sec 37 (2) No. 2 of the German Higher Education Act (HochSchG) and
3. one member of the joint group of staff pursuant to Sec 37 (2) No. 3 and 4 of the HochSchG, insofar as the General Regulations do not make use of Sec 37 (2) Sentence 5 2nd Half-Sentence of the HochSchG.

(2) The Examination Board decides by majority vote. In the event of a tied vote, the presiding member shall cast the deciding vote.

Sec 7 Admission Conditions for Examinations

(1) Modules may contain learning support measures or exams that are prerequisites for admission to examinations. If such measures or exams exist, they are shown accordingly in Annex 1.

(2) Admission to the project theses in the modules "Project Machine Learning and Software Engineering" and "Project Human Computer Interaction" is only possible for students who have completed graded exams and academic achievements worth at least 15 ECTS credits in the Master's degree programme. In particularly justified cases, the Examination Board may authorise exceptions.

(3) Admission to the Master's thesis is only granted to students who have earned at least 45 ECTS credits in the Master's degree programme and who have fulfilled the condition specified in Sec 5 (4), if required. In particularly justified cases, the Examination Board may authorise exceptions.

Sec 8 Compulsory Elective Modules

(1) The degree programme contains compulsory elective profile modules and compulsory elective cross-profile modules. For the Master's degree programme Computer Science, a total of at least 24 ECTS credits must be earned through compulsory elective modules, and for the Master's degree programme Computer Science – Dual Study, a total of at least 12 ECTS credits. In each degree programme, at least 6 ECTS credits must be earned through compulsory elective profile modules in the chosen specialisation. The compulsory elective profile modules and compulsory elective cross-profile modules available for selection can be chosen by students from a catalogue.

(2) A compulsory elective module is taken by registering for an examination assigned to this compulsory elective module. The Examination Board may authorise a switch of a compulsory elective module if there is a justified case of hardship, as long as an examination in this module has not been failed without the possibility of appeal. Additionally completed compulsory elective modules can be included in an annex to the Transcript of Records.

(3) The Faculty Council shall approve a catalogue of possible compulsory elective profile modules and compulsory elective cross-profile modules. The compulsory elective modules shall be announced in good time and bindingly in terms of content, scope and examinations, prerequisites to admission to examinations as well as types of examinations; attention shall be paid to a balanced ratio of the different forms of examinations. Students shall have the opportunity to choose their priorities from these compulsory elective catalogues in good time for the following semester. Based on this choice, the Head of the degree programme shall then draw up the specific offering of compulsory elective modules for the following semester, taking into account a minimum number of votes for the selection of a module and organisational concerns of the faculty. The courses of the compulsory elective modules available for selection are generally only held if at least five students have selected a compulsory elective module by the start of the lecture period.

(4) In addition to the compulsory elective profile modules and compulsory elective cross-profile modules approved by the Faculty Council, further compulsory elective modules may be approved and offered by the Examination Board in individual cases at the suggestion of the Head of the degree programme.

(5) In the English-language version of the Master's degree programme Computer Science – Dual Study, the options with regard to compulsory elective modules taught in English are limited; at least two different compulsory elective profile modules and three different compulsory elective cross-profile modules shall be offered each semester. Compulsory elective modules taught in German may be selected, provided that prior to attending the course, students can provide the Head of the degree programme and the lecturer with evidence of proficiency in the German language at level B2 of the Common European Framework of Reference for Languages (CEFR) by means of a recognised language certificate (in particular, DSH-1, Goethe Certificate B2, DSD II, TestDaF TDN 3).

Sec 9 Mentor-Accompanied Practical Activity

(1) In the Master's degree programme Computer Science, compulsory elective cross-profile modules worth 12 ECTS credits can be completed once by taking the module "Mentor-Accompanied Practical Activity"; in the degree programme Computer Science – Dual Study, this module is compulsory. The module "Mentor-Accompanied Practical Activity" comprises a total of 12 ECTS credits. The requirements for the mentor-accompanied practical activity and the written or oral exam to be taken are set out in the module description. The mentor-accompanied practical activity is issued, supervised and assessed by examiners as supervisors in accordance with Sec 4 (2) AMPO. The mentor-accompanied practical activity has a duration of 9 weeks without days of absence due to illness or holidays. It must be registered prior to commencement.

(2) Selection of the module "Mentor-Accompanied Practical Activity" rules out selection of the mobility module in accordance with Sec 11 (1). This does not apply to the mobility module in accordance with Sec 11 (3), which is taken to fulfil conditions in accordance with Sec 5 (4).

Sec 8 Types and Forms of Examinations, Times for Completion, Deadlines for Withdrawal and Retakes

(1) Examinations and learning support measures are labelled as such in Annex 1, which also specifies the forms of graded exams. Possible forms of examinations are those regulated in the AMPO.

(2) As a rule, the time for completion of term papers and project theses is 5 to 16 weeks. It is announced when the topic is issued. Deviations from this require a resolution by the Examination Board. The time for completion is announced in the examination plan. The time for completion of the project thesis in the modules “Project Machine Learning and Software Engineering” and “Project Human Computer Interaction” is 16 weeks. By resolution of the Examination Board, the time for completion of a project thesis can be extended by up to 2 weeks.

(3) Term papers and project theses may be completed in groups, provided the contribution of the individual students that is to be graded can be clearly distinguished and assessed. The individual contributions of the students must be specially marked.

(4) Withdrawal from an examination is possible without the need to give reasons up to one working day before the examination date or the issue of the topic.

(5) The deadline pursuant to Sec 15 (4) Sentence 1 AMPO for retaking examinations shall not apply; this shall also pertain in the case of Sec 13 (2) Sentence 8 AMPO.

Sec 11 Mobility Module

(1) The degree programme includes the option of a mobility module once during the degree programme, from the second subject-specific semester onwards. The requirements for carrying out the mobility module can be found in the module description. The mobility module replaces the compulsory elective cross-profile modules. The mobility module comprises a total of 18 ECTS credits and is completed with a written or oral exam in accordance with the examination plan.

(2) Selection of the mobility module rules out selection of the module “Mentor-Accompanied Practical Activity” in accordance with Sec 9 (1).

(3) For students who have been admitted with 180 ECTS credits in accordance with Sec 5 (4), the mobility module may comprise up to 30 ECTS credits.

(4) For the mobility module, a “Learning Agreement” must be agreed in advance with the Examination Board; the Examination Board can also designate two university lecturers for this purpose.

(5) The grade of the mobility module shall be calculated from the grades weighted according to the ECTS credits allocated to the graded exams and academic achievements completed as part of the mobility module in accordance with Sec 12 (4) AMPO.

Sec 12 Master’s Thesis and Colloquium about the Master’s Thesis

(1) The Master’s thesis must be registered at the Dean’s Office of the Faculty. Upon registration, the admission requirements for the Master’s thesis are reviewed by the Examination Office. Registration is complete when the Examination Office has confirmed that the admission conditions have been fulfilled in accordance with Sec 7 (3) and the topic has been issued with the approval of the Examination Board. The time for completion is 6 months. In justified exceptional cases, the deadline may be extended by up to six weeks. In the case of part-time study, the time for completion may be increased upon application in accordance with Sec 10 (3) Sentence 4 AMPO to a maximum of nine months, in addition to the possibility of extension stipulated in Sec 10 (3) Sentence 3 AMPO. The application must be made before the start of the Master’s thesis once the justifying circumstances are known.

(2) Group work is not permitted for the Master’s thesis.

(3) The Master’s thesis must be submitted to the Dean’s Office by the deadline in a single written copy as well as electronically – usually as a PDF file with attachments. The written copy can be submitted up to one week after the electronic submission. If the written copy is submitted by post, the date of dispatch counts. The written copy and the electronic copy of the Master’s thesis must be identical in content and form. If requested by an examiner, an additional written copy must be submitted for him or her.

(4) The Master’s thesis can be written in English or German. If the Master’s thesis is written in German, an “Extended Summary” of at least 5000 words must be written in English for the appendix to the Master’s

thesis. Correspondingly, an “Extended Summary” of at least 5000 words must be written in German for an English-language Master’s thesis.

(5) In the colloquium, the students present their Master’s thesis in a presentation lasting 20 minutes. This is followed by questioning on the topic of the Master’s thesis lasting 20 minutes.

Sec 13 Module Grade, Calculation of Overall Grade and Transcript of Records

(1) Depending on the degree programme selected, the module grades are calculated from the weighted grades of all graded exams of a module in accordance with Annexes 1 and 2. The weighting of the grades of the module examinations for the calculation of the overall grade in accordance with Sec 18 (1) AMPO is determined by the information on the modules in Annexes 1 and 2.

(2) For grades of “1.1” or better, the overall grade “passed with distinction” is awarded with the degree certificate.

(3) If the Master’s degree programme Computer Science - Dual Study was completed in the English-language version in accordance with Sec 3 (5) Sentence 2, the Transcript of Records will be issued in English. A German translation will be issued upon request.

Sec 14 Area of Applicability, Effective Date, Expiration Date, Transitional Regulations

(1) These Subject-specific Examination Regulations shall apply to students enrolled in the Master’s degree programmes Computer and Science and Computer Science – Dual Study starting from the summer semester 2025. They shall become effective the day following their publication in the *Hochschulanzeiger* of Kaiserslautern University of Applied Sciences.

(2) The Subject-specific Examination Regulations for the Master’s degree programmes Computer Science and Computer Science – Dual Study at Kaiserslautern University of Applied Sciences in the version dated July 23, 2018 (Hochschulanzeiger dated July 31, 2018, No. 44, p. 61), last amended by the Regulations dated December 17, 2018 (Hochschulanzeiger No. 47 dated December 31, 2018), shall expire at the end of the summer semester 2027; enrolment in these Subject-specific Examination Regulations is no longer possible, notwithstanding the provision in Para. (5) Sentence 2.

(3) Students who are pursuing their studies at Kaiserslautern University of Applied Sciences in a degree programme pursuant to the Subject-specific Examination Regulations named in Para. (2) shall have the opportunity to finish their studies in accordance with their Subject-specific Examination Regulations up to and including the summer semester 2027; an extension up to and including the winter semester 2027/2028 is possible upon application, provided that only the Master’s thesis and the module Colloquium about the Master’s Thesis, which must also be completed withing the framework of these Subject-specific Examination Regulations, remain to be completed. After the end of the semester referred to in Sentence 1, the current Subject-specific Examination Regulations applicable for the following semester shall apply for the continuation of the studies by re-enrolment in the relevant degree programme, unless otherwise specified elsewhere. In deviation from the regulations of the existing Subject-specific Examination Regulations, the Examination Board can, in particularly justified exceptions, decide that a module for which no equivalent courses and, if applicable, no equivalent examinations can be offered after the last regular course offering can be fulfilled by completing another module; in addition, the Examination Office can decide on forms of examination that deviate from the Subject-specific Examination Regulations, of which the students shall be informed at the beginning of the course.

(4) Upon application, students may transfer to these Subject-specific Examination Regulations in the most recent version applicable for the respective semester and continue and complete their studies according to the stipulations of these Subject-specific Examination Regulations. The application is irrevocable.

(5) Transfer to these Subject-specific Examination Regulations and enrolment in the degree programme named in Para. (1) in a higher subject-specific semester can only be approved if the course offer for the corresponding higher subject-specific semester is guaranteed. In exceptional cases, the Examination Board may approve enrolment in accordance with the regulations of the Subject-specific Examination Regulations specified in Para. (2). In the case of a transfer to these Subject-specific Examination Regulations, students shall be given credit for graded exams and academic achievements already completed in accordance with Sec 16 AMPO; failed examination attempts shall be counted as failed

attempts on identical examinations of these Subject-specific Examination Regulations. Further details of the transition shall be determined by the Examination Board.

Zweibrücken, January 20, 2025

Prof. Dr. rer. nat. Bernd Bufe
Dean of the Faculty of
Computer Science and Microsystems Technology
Kaiserslautern University of Applied Sciences

Anlage 1 Module und Prüfungen in den Masterstudiengängen Informatik und Informatik – dual im Vollzeitstudium einschließlich der englischsprachigen Variante

Informatik (Vollzeit Variante)

Es ist zwischen den beiden Schwerpunkten „Machine Learning & Software Engineering (MLSE)“ und „Human-Computer-Interaction (HCI)“ zu wählen. Die Pflichtmodule Advanced Software Engineering (ASE) und Automaten, Berechenbarkeit und Komplexität (ABK) sind in beiden Schwerpunkten zu besuchen. Zusätzlich sind die Profilfächer „Machine Learning (ML)“ und „Data Science (DS)“ im Schwerpunkt MLSE bzw. „Frameworkbasierte UI-Entwicklung (UI)“ und „Interaktionsdesign (ID)“ im Schwerpunkt HCI zu belegen. Beide Schwerpunkte haben zusätzlich ein spezifisches Projekt MLSE beziehungsweise HCI im zweiten Semester.

Schwerpunkt *Human Computer Interaction*

Modul	**Angaben zum Modul**				**LM VL**	**Angaben zu Prüfungen**					**Bemerk.**
	FS	**CP** Sem.	**CP** gesamt	**G**			**Art**	**Form**	**CP** Prüfung	**G**	Ggf. Angabe alternativer Formen
1. Fachsemester											
Advanced Software Engineering (ASE) *	1	6	6	6,7%	-		PL	M	6		
Profilübergreifendes Wahlpflichtmodul 1	1	6	6	6,7%	-		PL	DF	6		Wahl aus Katalog gemäß §8
Profilübergreifendes Wahlpflichtmodul 2	1	6	6	6,7%	-		PL	DF	6		Wahl aus Katalog gemäß §8
Profil-Wahlpflichtmodul 1	1	6	6	6,7%	-		PL	DF	6		Wahl aus Katalog gemäß §8
Frameworkbasierte UI-Entwicklung (UI) *	1	6	6	6,7%	-		PL	PA	6		
2. Fachsemester											
Automaten, Berechenbarkeit und Komplexität (ABK) *	2	6	6	6,7%	-		PL	K	6		
Profilübergreifendes Wahlpflichtmodul 3	2	6	6	6,7%	-		PL	DF	6		Wahl aus Katalog gemäß §8
Mobilitätsmodul	-	-	-	-	-		-	-	-		Siehe §11
Interaktionsdesign (ID) *	2	6	6	6,7%	-		PL	K	6		
Projekt Mensch-Technik Interaktion (PMTI) *	2	12	12	13,4%	-	Projekt	PL	PA	9	75%	
						Social Skills	PL	PS	3	25%	
3. Fachsemester											
Master-Abschlussarbeit	3	30	30	33,0%	-	Masterarbeit	PL	MA	27	50%	
						Kolloquium	PL	KO	3	50%	
Gesamt-CP			90						90		

Legende

Art Festlegung, ob es sich um eine Prüfungs- oder Studienleistung handelt
AT Aktive Teilnahme
AT* Aktive Teilnahme als Zulassungsvoraussetzung zur Prüfung
CP Credit-Points (ECTS-Punkte), die einem Modul (CP gesamt), den in den Semestern anstehenden Veranstaltungen (CP Semester) oder einer Prüfung/einem Prüfungselement des Moduls im jeweiligen Fachsemester (CP Prüfung) zugeordnet ist
Form Festlegung, in welcher Form eine Prüfung abzulegen ist
FS Fachsemester
G Gewichtung für die Gesamtnote bei Angabe zum Modul, für die Modulnote bei Angabe bei der Prüfung
K Klausur
KO Kolloquium über die Masterarbeit
LM VL Lernbegleitende Maßnahme und Vorleistungen als Zulassung zur Prüfung werden hier als erforderlich angegeben und festgelegt, nähere Angaben werden im gegebenenfalls Modulhandbuch getroffen
M Mündliche Prüfung
MA Masterarbeit
PA Projektarbeit
PF (E-)Lernportfolio
PL Prüfungsleistung
PS Präsentation
SL Studienleistung
DF Diverse Formen = Die Prüfungsform ist vom spezifisch vom konkret gewählten Modul abhängig.

* Die Zuordnung dieses Pflichtmoduls zu den Fachsemestern 1 und 2 gilt für einen Studienbeginn in einem Sommersemester. Beim Studienbeginn in einem Wintersemester gilt dies entsprechend umgekehrt.

Schwerpunkt *Machine Learning and Software Engineering*

Modul	Angaben zum Modul				LM VL	Angaben zu Prüfungen					Bemerk.
	FS	CP Sem.	CP gesamt	G			Art	Form	CP Prüfung	G	Ggf. Angabe alternativer Formen
1. Fachsemester											
Advanced Software Engineering (ASE) *	1	6	6	6,7%	-		PL	M	6		
Profilübergreifendes Wahlpflichtmodul 1	1	6	6	6,7%	-		PL	DF	6		Wahl aus Katalog gemäß §8
Profilübergreifendes Wahlpflichtmodul 2	1	6	6	6,7%	-		PL	DF	6		Wahl aus Katalog gemäß §8
Profil-Wahlpflichtmodul 1	1	6	6	6,7%	-		PL	DF	6		Wahl aus Katalog gemäß §8
Machine Learning (ML) *	1	6	6	6,7%	-		PL	K	6		
2. Fachsemester											
Automaten, Berechenbarkeit und Komplexität (ABK) *	2	6	6	6,7%	-		PL	K	6		
Profilübergreifendes Wahlpflichtmodul 3	2	6	6	6,7%	-		PL	DF	6		Wahl aus Katalog gemäß §8
Mobilitätsmodul	-	-	-	-	-		-	-	-		Siehe §11
Data Science (DS) *	2	6	6	6,7%	-		PL	K	6		
Projekt Machine Learning & Software Engineering (PMLSE) *	2	12	12	13,4%	-	Projekt	PL	PA	9	75%	
						Social Skills	PL	PS	3	25%	
3. Fachsemester											
Master-Abschlussarbeit	3	30	30	33,0%	-	Masterarbeit	PL	MA	27	50%	
						Kolloquium	PL	KO	3	50%	
Gesamt-CP			90						90		

Legende

Art	Festlegung, ob es sich um eine Prüfungs- oder Studienleistung handelt
AT	Aktive Teilnahme
AT*	Aktive Teilnahme als Zulassungsvoraussetzung zur Prüfung
CP	Credit-Points (ECTS-Punkte), die einem Modul (CP gesamt), den in den Semestern anstehenden Veranstaltungen (CP Semester) oder einer Prüfung/einem Prüfungselement des Moduls im jeweiligen Fachsemester (CP Prüfung) zugeordnet ist
Form	Festlegung, in welcher Form eine Prüfung abzulegen ist
FS	Fachsemester
G	Gewichtung für die Gesamtnote bei Angabe zum Modul, für die Modulnote bei Angabe bei der Prüfung
K	Klausur
KO	Kolloquium über die Masterarbeit
LM VL	Lernbegleitende Maßnahme und Vorleistungen als Zulassung zur Prüfung werden hier als erforderlich angegeben und festgelegt, nähere Angaben werden im gegebenenfalls Modulhandbuch getroffen
M	Mündliche Prüfung
MA	Masterarbeit
PA	Projekt
PF	(E-)Lernportfolio
PL	Prüfungsleistung
PS	Präsentation
SL	Studienleistung
DF	Diverse Formen = Die Prüfungsform ist vom spezifisch vom konkret gewählten Modul abhängig.

* Die Zuordnung dieses Pflichtmoduls zu den Fachsemestern 1 und 2 gilt für einen Studienbeginn in einem Sommersemester. Beim Studienbeginn in einem Wintersemester gilt dies entsprechend umgekehrt.

Informatik - dual

Es ist zwischen den beiden Schwerpunkten „Machine Learning & Software Engineering (MLSE)“ und „Human-Computer-Interaction (HCI)“ zu wählen. Die Pflichtmodule Advanced Software Engineering (ASE) und Automaten, Berechenbarkeit und Komplexität (ABK) sind in beiden Schwerpunkten zu besuchen. Zusätzlich sind die Profilfächer „Machine Learning (ML)“ und „Data Science (DS)“ im Schwerpunkt MLSE bzw. „Frameworkbasierte UI-Entwicklung (UI)“ und „Interaktionsdesign (ID)“ im Schwerpunkt HCI zu belegen. Beide Schwerpunkte haben zusätzlich ein spezifisches Projekt MLSE beziehungsweise HCI im zweiten Semester.

Schwerpunkt *Human Computer Interaction*

Modul	**Angaben zum Modul**				**LM VL**	**Angaben zu Prüfungen**					**Bemerk.**
	FS	**CP** Sem.	**CP** gesamt	**G**			**Art**	**Form**	**CP** Prüfung	**G**	Ggf. Angabe alternativer Formen
1. Fachsemester											
Advanced Software Engineering (ASE) *	1	6	6	6,7%			PL	M	6		
Profilübergreifendes Wahlpflichtmodul	1	6	6	6,7%			PL	DF	6		Wahl aus Katalog gemäß §8
Mentorbegleitete praktische Tätigkeit (MPT-Dual) *Beginn im 1. und Fortführung im 2. Semester*	1 2	6 6	12	13,4%			PL	PA	12		Prüfung am Ende des zweiten Semesters
Profil-Wahlpflichtmodul	1	6	6	6,7%			PL	DF	6		Wahl aus Katalog gemäß §8
Frameworkbasierte UI-Entwicklung (UI) *	1	6	6	6,7%			PL	PA	6		
2. Fachsemester											
Automaten, Berechenbarkeit und Komplexität (ABK) *	2	6	6	6,7%			PL	K	6		
Interaktionsdesign (ID) *	2	6	6	6,7%			PL	K	6		
Projekt Mensch-Technik Interaktion (PMTI-Dual) *	2	12	12	13,4%		Projekt	PL	PA	9	75%	
						Seminar Praxistransfer	PL	PS	3	25%	
3. Fachsemester											
Master-Abschlussarbeit	3	30	30	33,0%		Masterarbeit	PL	MA	27	50%	
						Kolloquium	PL	KO	3	50%	
Gesamt-CP			90						90		

Legende

Art	Festlegung, ob es sich um eine Prüfungs- oder Studienleistung handelt
AT	Aktive Teilnahme
AT*	Aktive Teilnahme als Zulassungsvoraussetzung zur Prüfung
CP	Credit-Points (ECTS-Punkte), die einem Modul (CP gesamt), den in den Semestern anstehenden Veranstaltungen (CP Semester) oder einer Prüfung/einem Prüfungselement des Moduls im jeweiligen Fachsemester (CP Prüfung) zugeordnet ist
Form	Festlegung, in welcher Form eine Prüfung abzulegen ist
FS	Fachsemester
G	Gewichtung für die Gesamtnote bei Angabe zum Modul, für die Modulnote bei Angabe bei der Prüfung
K	Klausur
KO	Kolloquium über die Masterarbeit
LM VL	Lernbegleitende Maßnahme und Vorleistungen als Zulassung zur Prüfung werden hier als erforderlich angegeben und festgelegt, nähere Angaben werden im gegebenenfalls Modulhandbuch getroffen
M	Mündliche Prüfung
MA	Masterarbeit
PA	Projekt
PF	(E-)Lernportfolio
PL	Prüfungsleistung
PS	Präsentation
SL	Studienleistung
DF	Diverse Formen = Die Prüfungsform ist vom spezifisch vom konkret gewählten Modul abhängig.

* Die Zuordnung dieses Pflichtmoduls zu den Fachsemestern 1 und 2 gilt für einen Studienbeginn in einem Sommersemester. Beim Studienbeginn in einem Wintersemester gilt dies entsprechend umgekehrt.

Schwerpunkt *Machine Learning and Software Engineering*

Modul	Angaben zum Modul				LM VL	Angaben zu Prüfungen					Bemerk.
	FS	CP Sem.	CP gesamt	G			Art	Form	CP Prüfung	G	Ggf. Angabe alternativer Formen
1. Fachsemester											
Advanced Software Engineering (ASE) *	1	6	6	6,7%			PL	M	6		
Profilübergreifendes Wahlpflichtmodul	1	6	6	6,7%			PL	DF	6		Wahl aus Katalog gemäß §8
Mentorbegleitete praktische Tätigkeit (MPT-Dual) *Beginn im 1. und Fortführung im 2. Semester*	1 2	6 6	12	13,4%			PL	PA	12		Prüfung am Ende des zweiten Semesters
Profil-Wahlpflichtmodul	1	6	6	6,7%			PL	DF	6		Wahl aus Katalog gemäß §8
Machine Learning (ML) *	1	6	6	6,7%			PL	K	6		
2. Fachsemester											
Automaten, Berechenbarkeit und Komplexität (ABK) *	2	6	6	6,7%			PL	K	6		
Data Science (DS) *	2	6	6	6,7%			PL	K	6		
Projekt Software-Entwicklung (PSE-Dual)Machine Learning & Software Engineering (PMLSE) *	2	12	12	13,4%		Project	PL	PA	9	75%	
						Seminar Praxistransfer	PL	PS	3	25%	
3. Fachsemester											
Master-Abschlussarbeit	3	30	30	33,0%		Masterarbeit	PL	MA	27	50%	
						Kolloquium	PL	KO	3	50%	
Gesamt-CP			90						90		

Legende

Art	Festlegung, ob es sich um eine Prüfungs- oder Studienleistung handelt
AT	Aktive Teilnahme
AT*	Aktive Teilnahme als Zulassungsvoraussetzung zur Prüfung
CP	Credit-Points (ECTS-Punkte), die einem Modul (CP gesamt), den in den Semestern anstehenden Veranstaltungen (CP Semester) oder einer Prüfung/einem Prüfungselement des Moduls im jeweiligen Fachsemester (CP Prüfung) zugeordnet ist
Form	Festlegung, in welcher Form eine Prüfung abzulegen ist
FS	Fachsemester
G	Gewichtung für die Gesamtnote bei Angabe zum Modul, für die Modulnote bei Angabe bei der Prüfung
K	Klausur
KO	Kolloquium über die Masterarbeit
LM VL	Lernbegleitende Maßnahme und Vorleistungen als Zulassung zur Prüfung werden hier als erforderlich angegeben und festgelegt, nähere Angaben werden im gegebenenfalls Modulhandbuch getroffen
M	Mündliche Prüfung
MA	Masterarbeit
PA	Projekt
PF	(E-)Lernportfolio
PL	Prüfungsleistung
PS	Präsentation
SL	Studienleistung
DF	Diverse Formen = Die Prüfungsform ist vom spezifisch vom konkret gewählten Modul abhängig.

* Die Zuordnung dieses Pflichtmoduls zu den Fachsemestern 1 und 2 gilt für einen Studienbeginn in einem Sommersemester. Beim Studienbeginn in einem Wintersemester gilt dies entsprechend umgekehrt.

Computer Science - dual, English variant

Students must choose between the two study focus “Machine Learning & Software Engineering (MLSE)” and “Human-Computer Interaction (HCI)”. The compulsory modules Advanced “Software Engineering (ASE-E)” and “Automata theory, Computability and Complexity (ACC-E)” must be attended in both specializations. In addition, the profile subjects “Machine Learning (ML-E)” and “Data Science (DS-E)” must be taken in the MLSE specialization and “Framework-based UI development (UI-E)” and “Interaction Design (ID-E)” in the HCI specialization. Both specializations also have a specific MLSE or HCI project in the second semester.

Focus on *Human Computer Interaction*

Module	**Module details**				**LM VL**	**Information on tests**					**Remarks**
	FS	**CP** Sem.	**CP** total	**G**			**Type**	**Form**	**CP** Test	**G**	Indication of alternative forms, if applicable
1. Semester											
Advanced Software Engineering (ASE-E) *	1	6	6	6,7%			PL	M	6		
Cross-profile compulsory electives	1	6	6	6,7%			PL	DF	6		Election from catalog according to §8
Internship (MPT-Dual-E) *Start in the 1st semester and continuation in the 2nd semester*	1	6	12	13,4%			PL	PA	12		Exam at the end of the second semester
	2	6									
Profile elective subject	1	6	6	6,7%			PL	DF	6		Election from catalog according to §8
Framework-based UI development (UI-E) *	1	6	6	6,7%			PL	K	6		
2. Semester											
Automata theory, Computability and Complexity (ACC-E) *	2	6	6	6,7%			PL	K	6		
Interaction Design (ID-E) *	2	6	6	6,7%			PL	K	6		
Human-Technology Interaction Project (PMTI-Dual-E) *	2	12	12	13,4%		Project	PL	PA	9	75%	
						Practical transfer seminar	PL	PS	3	25%	
3. Semester											
Master's Thesis with colloquium	3	30	30	33,0%		Master thesis	PL	MA	27	50%	
						Colloquium	PL	KO	3	50%	
Total CP			90						90		

Legend

Type	Determination of whether it is an examination or academic achievement
AT	Active participation
AT*	Active participation as a prerequisite for admission to the examination
CP	Credit points (ECTS points) assigned to a module (CP total), the courses scheduled in the semesters (CP semester) or an examination/examination element of the module in the respective semester (CP examination)
Form	Determination of the form in which an examination is to be taken
FS	Subject semester
G	Weighting for the overall grade when stated for the module, for the module grade when stated for the examination
K	Written exam
KO	Colloquium on the Master thesis
LM VL	Learning support measures and preliminary work as admission to the examination are specified and defined here as required; further details are provided in the module handbook, if applicable
M	Oral examination
MA	Master thesis
PA	Project
PF	(E-)learning portfolio
PL	Graded exams
PS	Presentation
SL	Academic achievement
DF	Diverse forms = The form of examination depends on the specific module selected

* The assignment of this compulsory module to semesters 1 and 2 applies to students commencing their studies in a summer semester. The reverse is also true for students starting in a winter semester.

Focus on *Machine Learning and Software Engineering*

Module	Module details				LM VL	Information on tests					Remarks
	FS	CP Sem.	CP total	G			Type	Form	CP Test	G	Indication of alternative forms, if applicable
1. Semester											
Advanced Software Engineering (ASE-E) *	1	6	6	6,7%			PL	M	6		
Cross-profile compulsory electives	1	6	6	6,7%			PL	DF	6		Election from catalog according to §8
Internship (MPT-Dual-E) *Start in the 1st semester and continuation in the 2nd semester*	1 2	6 6	12	13,4%			PL	PA	12		Exam at the end of the second semester
Profile elective subject	1	6	6	6,7%			PL	DF	6		Election from catalog according to §8
Machine Learning (ML-E) *	1	6	6	6,7%			PL	K	6		
2. Semester											
Automata theory, Computability and Complexity (ACC-E) *	2	6	6	6,7%			PL	K	6		
Data Science (DS-E) *	2	6	6	6,7%			PL	K	6		
Project ML and software development (PMLSE-E) *	2	12	12	13,4%		Project	PL	PA	9	75%	
						Practical transfer seminar	PL	PS	3	25%	
3. Semester											
Master's Thesis with colloquium	3	30	30	33,0%		Master thesis	PL	MA	27	50%	
						Colloquium	PL	KO	3	50%	
Total CP			90						90		

Legend

Type	Determination of whether it is an examination or academic achievement
AT	Active participation
AT*	Active participation as a prerequisite for admission to the examination
CP	Credit points (ECTS points) assigned to a module (CP total), the courses scheduled in the semesters (CP semester) or an examination/examination element of the module in the respective semester (CP examination)
Form	Determination of the form in which an examination is to be taken
FS	Subject semester
G	Weighting for the overall grade when stated for the module, for the module grade when stated for the examination
K	Written exam
KO	Colloquium on the Master thesis
LM VL	Learning support measures and preliminary work as admission to the examination are specified and defined here as required; further details are provided in the module handbook, if applicable
M	Oral examination
MA	Master thesis
PA	Project
PF	(E-)learning portfolio
PL	Graded exams
PS	Presentation
SL	Academic achievement
DF	Diverse forms = The form of examination depends on the specific module selected

* The assignment of this compulsory module to semesters 1 and 2 applies to students commencing their studies in a summer semester. The reverse is also true for students starting in a winter semester.

Anlage 2 Studienverlauf im Teilzeitstudium

Informatik (Teilzeit Variante)

Es ist zwischen den beiden Schwerpunkten „Machine Learning & Software Engineering (MLSE)“ und „Human-Computer-Interaction (HCI)“ zu wählen. Die Pflichtmodule Advanced Software Engineering (ASE) und Automaten, Berechenbarkeit und Komplexität (ABK) sind in beiden Schwerpunkten zu besuchen. Zusätzlich sind die Profilfächer „Machine Learning (ML)“ und „Data Science (DS)“ im Schwerpunkt MLSE bzw. „Frameworkbasierte UI-Entwicklung (UI)“ und „Interaktionsdesign (ID)“ im Schwerpunkt HCI zu belegen. Beide Schwerpunkte haben zusätzlich ein spezifisches Projekt MLSE beziehungsweise HCI im dritten Semester.

Schwerpunkt *Human Computer Interaction*

Modul	**Angaben zum Modul**				**LM VL**	**Angaben zu Prüfungen**					**Bemerk.**
	FS	**CP** Sem.	**CP** gesamt	**G**			**Art**	**Form**	**CP** Prüfung	**G**	Ggf. Angabe alternativer Formen
1. Fachsemester											
Advanced Software Engineering (ASE) *	1	6	6	6,7%	-		PL	M	6		
Profil-Wahlpflichtmodul 1	1	6	6	6,7%	-		PL	DF	6		Wahl aus Katalog gemäß §8
2. Fachsemester											
Automaten, Berechenbarkeit und Komplexität (ABK) *	2	6	6	6,7%	-		PL	K	6		
Interaktionsdesign (ID) *	2	6	6	6,7	-		PL	K	6		
Profilübergreifendes Wahlpflichtmodul 1	2	6	6	6,7	-		PL	DF	6		Wahl aus Katalog gemäß §8
3. Fachsemester											
Projekt Mensch-Technik Interaktion (PMTI) *	3	12	12	13,4	-	Projekt	PL	PA	9	75%	
						Social Skills	PL	PS	3	25%	
Frameworkbasierte UI-Entwicklung (UI) *	3	6	6	6,7	-		PL	PA	6		
4. Fachsemester											
Profilübergreifendes Wahlpflichtmodul 2	4	6	6	6,7	-		PL	DF	6		Wahl aus Katalog gemäß §8
Profilübergreifendes Wahlpflichtmodul 3	4	6	6	6,7	-		PL	DF	6		Wahl aus Katalog gemäß §8
5. Fachsemester											
Master-Abschlussarbeit	5	30	30	33,0%	-	Masterarbeit	PL	MA	27	50%	
						Kolloquium	PL	KO	3	50%	
Gesamt-CP			90						90		

Legende

Art	Festlegung, ob es sich um eine Prüfungs- oder Studienleistung handelt
AT	Aktive Teilnahme
AT*	Aktive Teilnahme als Zulassungsvoraussetzung zur Prüfung
CP	Credit-Points (ECTS-Punkte), die einem Modul (CP gesamt), den in den Semestern anstehenden Veranstaltungen (CP Semester) oder einer Prüfung/einem Prüfungselement des Moduls im jeweiligen Fachsemester (CP Prüfung) zugeordnet ist
Form	Festlegung, in welcher Form eine Prüfung abzulegen ist
FS	Fachsemester
G	Gewichtung für die Gesamtnote bei Angabe zum Modul, für die Modulnote bei Angabe bei der Prüfung
K	Klausur
KO	Kolloquium über die Masterarbeit
LM VL	Lernbegleitende Maßnahme und Vorleistungen als Zulassung zur Prüfung werden hier als erforderlich angegeben und festgelegt, nähere Angaben werden im gegebenenfalls Modulhandbuch getroffen
M	Mündliche Prüfung
MA	Masterarbeit
PA	Projektarbeit
PF	(E-)Lernportfolio
PL	Prüfungsleistung
PS	Präsentation
SL	Studienleistung
DF	Diverse Formen = Die Prüfungsform ist vom spezifisch vom konkret gewählten Modul abhängig

* Die Zuordnung dieses Pflichtmoduls zu den Fachsemestern 1 und 2 gilt für einen Studienbeginn in einem Sommersemester. Beim Studienbeginn in einem Wintersemester gilt dies entsprechend umgekehrt.

Schwerpunkt *Machine Learning and Software Engineering*

Modul	Angaben zum Modul				LM VL	Angaben zu Prüfungen					Bemerk.
	FS	CP Sem.	CP gesamt	G			Art	Form	CP Prüfung	G	Ggf. Angabe alternativer Formen
1. Fachsemester											
Advanced Software Engineering (ASE) *	1	6	6	6,7%	-		PL	M	6		
Profil-Wahlpflichtmodul 1	1	6	6	6,7%	-		PL	DF	6		Wahl aus Katalog gemäß §8
2. Fachsemester											
Automaten, Berechenbarkeit und Komplexität (ABK) *	2	6	6	6,7%	-		PL	K	6		
Data Science (DS) *	2	6	6	6,7	-		PL	K	6		
Profilübergreifendes Wahlpflichtmodul 1	2	6	6	6,7	-		PL	DF	6		Wahl aus Katalog gemäß §8
3. Fachsemester											
Projekt Mensch-Technik Interaktion (PMTI) *	3	12	12	13,4	-	Projekt	PL	PA	9	75%	
						Social Skills	PL	PS	3	25%	
Machine Learning (ML) *	3	6	6	6,7	-		PL	PA	6		
4. Fachsemester											
Profilübergreifendes Wahlpflichtmodul 2	4	6	6	6,7	-		PL	DF	6		Wahl aus Katalog gemäß §8
Profilübergreifendes Wahlpflichtmodul 3	4	6	6	6,7	-		PL	DF	6		Wahl aus Katalog gemäß §8
5. Fachsemester											
Master-Abschlussarbeit	5	30	30	33,0%	-	Masterarbeit	PL	MA	27	50%	
						Kolloquium	PL	KO	3	50%	
Gesamt-CP			90						90		

Legende

Art	Festlegung, ob es sich um eine Prüfungs- oder Studienleistung handelt
AT	Aktive Teilnahme
AT*	Aktive Teilnahme als Zulassungsvoraussetzung zur Prüfung
CP	Credit-Points (ECTS-Punkte), die einem Modul (CP gesamt), den in den Semestern anstehenden Veranstaltungen (CP Semester) oder einer Prüfung/einem Prüfungselement des Moduls im jeweiligen Fachsemester (CP Prüfung) zugeordnet ist
Form	Festlegung, in welcher Form eine Prüfung abzulegen ist
FS	Fachsemester
G	Gewichtung für die Gesamtnote bei Angabe zum Modul, für die Modulnote bei Angabe bei der Prüfung
K	Klausur
KO	Kolloquium über die Masterarbeit
LM VL	Lernbegleitende Maßnahme und Vorleistungen als Zulassung zur Prüfung werden hier als erforderlich angegeben und festgelegt, nähere Angaben werden im gegebenenfalls Modulhandbuch getroffen
M	Mündliche Prüfung
MA	Masterarbeit
PA	Projektarbeit
PF	(E-)Lernportfolio
PL	Prüfungsleistung
PS	Präsentation
SL	Studienleistung
DF	Diverse Formen = Die Prüfungsform ist vom spezifisch vom konkret gewählten Modul abhängig

* Die Zuordnung dieses Pflichtmoduls zu den Fachsemestern 1 und 2 gilt für einen Studienbeginn in einem Sommersemester. Beim Studienbeginn in einem Wintersemester gilt dies entsprechend umgekehrt.