Subject-specific Examination Regulations for the Master's Degree Programs Refinement and Sustainability of Polymer and Composite Products und Refinement and Sustainability of Polymer and Composite Products – Double Degree at the University of Applied Sciences Kaiserslautern from 10.11.2025

This translation is for informational purposes only. Only the German version is legally binding.

This unofficial reading version applies to all students of the Master's Degree Programs Refinement and Sustainability of Polymer and Composite Products and Refinement and Sustainability of Polymer and Composite Products – Double Degree who have enrolled in these programs since the summer semester 2026.

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 2019 is used.

Pursuant to Sec 7 (2) No. 2 and Sec 86 (2) No. 3 of the Higher Education Act (HochSchG) dated 23. September 2020 (GVBI., p. 461), last amended by Article 4 of the Act dated 18 June 2019 (GVBl, p. 101), BS 223-41, the Faculty Council of the Department of Applied Logistics and Polymer Science of the Kaiserslautern University of Applied Sciences has enacted the following Subject-specific Examination Regulations for the Master's degree programs Refinement and Sustainability of Polymer and Composite Products and Refinement and Sustainability of Polymer and Composite Products – Double Degree at the University of Applied Sciences Kaiserslautern on 29.10.2025. These Subject-specific Examination They are hereby publicly announced in accordance with Section 7 (6) of the Higher Education Act (HochSchG).

Inhalt

§ 1 Scope of the examination regulations
§ 2 Type of program and academic degree
§ 3 Start of studies, standard period of study, scope and structure of the study program
§ 4 Part-time studies
§ 5 Admission requirements for degree programs and special regulations for double degrees
§ 6 Board of Examiners
§ 7 Research orientation
§ 8 Admission requirements for examinations, registration deadlines
§ 9 Elective modules
§ 10 Types and forms of examinations, processing times
§ 11 Semester abroad
§ 12 Master's thesis and colloquium on the master's thesis
§ 13 Module grade, weighting of grades, and certificate
§ 14 Scope, entry into force, expiry, transitional provisions

Attachments:
Attachment 1 - Module und Prüfungen im Masterstudiengang Refinement and Sustainability of Polymer and Composite Products
Attachment 2 - Regulations governing admission to the Master's program Master's program in Refinement and Sustainability of Polymer and Composite Products
Attachment 3 - Modules and examinations, admission requirements for the Master's program in Refinement and Sustainability of Polymer and Composite Products – Double Degree
Attachment 4 - Special regulations for the Master's program in Refinement and Sustainability of Polymer and Composite Products – Double Degree

§ 1 Scope of the examination regulations

(1) This set of regulations (FPO) covers the subject-specific requirements for taking exams, the exam requirements, and the exam process for the master's programs in Refinement and Sustainability of Polymer and Composite Products and Refinement and Sustainability of Polymer and Composite Products - Double Degree. Cross-program examination regulations are specified in the current version of the General Master's Examination Regulations of the University of Kaiserslautern (AMPO). The AMPO applies unless otherwise specified in these regulations. In particular, it contains provisions on the following aspects:

- Purpose of the master's examination (§ 2 AMPO)
- Examination board (§ 3 AMPO)
- Examiners and assessors, supervisors of the master's thesis (§ 4 AMPO)
- General admission requirements and admission procedure (§ 5 AMPO)
- Types and forms of examinations, module examinations, deadlines, learning support measures (§ 6 to § 9b AMPO),
- Master's thesis and colloquium (§§ 10 and 11 AMPO)
- Assessment of examinations and module examinations (§12 AMPO)
- Examination procedures and recognition of achievements (§ 13 – 16 AMPO)
- Scope of the master's examination, calculation of the overall grade, certificate and diploma (§§ 17 and 19 AMPO)

(2) The appendices listed in the table of contents are an integral part of these examination regulations.

§ 2 Type of program and academic degree

(1) The master's programs are application-oriented, scientific programs that lead to a second professional academic degree.

(2) Upon passing the master's examination in the master's degree program Refinement and Sustainability of Polymer and Composite Products and Refinement and Sustainability of Polymer and Composite Products - Double Degree, the academic degree “Master of Science” (abbreviated: “M.Sc.”) is awarded.

§ 3 Start of studies, standard period of study, scope and structure of the study program

(1) Students may enroll in the Master's program in Refinement and Sustainability of Polymer and Composite Products in either the winter semester or the summer semester; enrollment in the Master's program in Refinement and Sustainability of Polymer and Composite Products - Double Degree is only possible in the winter semester.

(2) The standard period of study for the Master's program in Refinement and Sustainability of Polymer and Composite Products is three semesters. The program has a total workload equivalent to 90 ECTS credits (European Credit Transfer System credits). Each ECTS credit corresponds to a workload of 30 hours.

(3) The standard period of study for the Master's program in Refinement and Sustainability of Polymer and Composite Products – Double Degree is four semesters. In total, the program is assigned a workload corresponding to 120 ECTS credits (European Credit Transfer System credits). Each ECTS credit is equivalent to 30 hours of work.

(4) Compulsory modules and compulsory elective modules (§ 9) must be completed as part of the program. These modules, their scope, and the examinations and evidence required to pass the master's examination in accordance with § 15 (1) ABPO are listed in Appendices 1 and 3.

((5) The program is generally application-oriented (application orientation). It can be completed on a research-oriented basis (research orientation) under the conditions specified in § 7. Depending on the program completed, the certificate will indicate either “application orientation” or “research orientation” as the area of specialization.

(6) The courses and examinations of the compulsory and compulsory elective modules in Annexes 1 and 3 are held in English. The examination board decides on exceptions.

§ 4 Part-time studies

(1) The Master's program in Refinement and Sustainability of Polymer and Composite Products can also be studied part-time over a period of seven semesters. The workload per semester is 10 ECTS credits for a study period of 7 semesters, with the exception of the semester for the Master's thesis and the colloquium on the Master's thesis, which is worth 30 ECTS credits. The part-time study schedule is set out in Appendix 1.

(2) Part-time students attend the same courses and take the same exams as full-time students. The time allowed for exams remains unchanged, unless otherwise specified in these FPO.

(3) An application to study part-time must be submitted with the application for admission to the program or once during the course of study, no later than four weeks before the start of the semester in which the student wishes to begin studying part-time. Any further applications to study part-time are only possible in particularly justified cases (e.g., caring for relatives in need of care, raising a child, employment). Part-time study is not possible in the case of double studies (enrollment in more than one degree program, with the exception of the possibility under Section 19 (3) HochSchG). A return to full-time study is possible upon application with the appropriate notice period in accordance with sentence 1.

§ 5 Admission requirements for degree programs and special regulations for double degrees

Admission to the program is based on the “Regulations governing admission to the Master's program in Refinement and Sustainability of Polymer and Composite Products” in Appendix 2. Additional regulations governing admission to the Master's program in Refinement and Sustainability of Polymer and Composite Products – Double Degree and the examinations are set out in Appendix 4, “Special Regulations for the Master's Program in Refinement and Sustainability of Polymer and Composite Products – Double Degree.”

§ 6 Examination Board

(1) The examination board shall consist of:

1. three members from the group of university teachers in accordance with § 37 (2) No. 1 HochSchG,
2. one member from the group of students in accordance with § 37 (2) No. 2 HochSchG, and
3. one member from the joint group pursuant to § 37 (2) Nos. 3 and 4 HochSchG, provided that no use is made of the basic regulation of § 37 (2) sentence 5, second half-sentence.

(2) The examination board shall decide by majority vote. In the event of a tie, the chairperson shall have the casting vote.

§ 7
Research orientation

(1) Upon application to the examination board, students may complete their studies with a research focus.

(2) The following requirements must be met in order to apply for a research-oriented course of study:

- The student has independently found a research topic and a supervising professor.
- The student has passed the module examination “Research Management Skills and Processes.” Proof of passing must be provided no later than the start of the research work.

(3) The application must be accompanied by a statement of the student's research objectives (approx. 1-3 pages). The application must be submitted to the Examination Board four weeks after the start of the second semester. An extension of the deadline by a maximum of one semester may be granted by the examination board upon request in justified exceptional cases (study under certain conditions, clarification of project funds, extensive research work). The application must include a binding statement on how to proceed with elective modules that have already been passed or started with examination requirements in accordance with paragraph 4 no. 2. (

(4) The following regulations apply to research-oriented studies:

- A research thesis must be submitted. This replaces the project work and two additional elective modules, which must be completed by means of examinations (§ 9 (1) sentence 2).

- In cases where elective modules with included examinations have already been passed before the start of the research thesis, these can be counted as an elective module with coursework or as additional coursework. If the included examinations have not yet been passed, the relevant elective modules can be continued in order to pass them; it is possible to opt out.
- It is possible to opt out of the research thesis once, provided that the examination has not been definitively failed. When opting out, students must specify which elective modules with examinations they will choose in order to fulfill the elective requirements. If elective modules that have already been started are chosen again, the relevant examinations must be repeated within the applicable deadlines.
- Group work is not permitted for the research thesis.

§ 8 Admission requirements for examinations, registration deadlines

(1) Modules may include learning-related measures or examinations that are prerequisites for admission to examinations. These are listed in Appendix 1, 3, or an elective catalog, as applicable.

(2) Admission to the examination for the “Project Work” module is contingent upon passing the “Research Management Skills and Processes” module examination.

(3) Only those who have earned at least 50 ECTS credits from coursework and examinations and have fulfilled all existing admission requirements in accordance with the admission regulations in Appendix 2 may be admitted to the master's thesis.

(4) Students must register for examinations and coursework in the semester in which they are scheduled in accordance with Appendix 1 or 3. If this registration deadline is missed by two semesters, the examinations and coursework are considered failed for the first time.

§ 9 Elective modules

(1) In the Master's program in Refinement and Sustainability of Polymer and Composite Products, elective modules worth at least 25 ECTS must be chosen. Of these, 15 ECTS must be earned through elective modules with examinations. Additional elective modules with examinations can also be included as elective modules with coursework; in these cases, the examinations taken are not included in the overall grade. In the Master's program in Refinement and Sustainability of Polymer and Composite Products – Double Degree, 23 ECTS credits must be earned through elective modules, 15 of which must be earned through elective modules with examinations.

(2) Students must complete either the “Project Work” module or the “Research Thesis” module as elective modules. The compulsory elective modules RSPCP 2.11 and 2.12 can only be chosen by students with language skills lower than the level specified in the module.

(3) An elective module is taken by registering for an examination assigned to that elective module. Elective modules may be changed during the course of study, provided that an examination associated with the module has not yet been definitively failed and elective modules are available for selection. The change must be notified to the Examination Office in writing and must be made at the latest before the last opportunity to repeat an examination within the withdrawal period. Additional elective modules completed may be included in an appendix to the transcript.

(4) The Examination Board may offer additional elective modules for one or two semesters. The elective modules must be announced in a timely and binding manner in terms of content, scope, and examinations, preliminary examination requirements, and examination forms; care must be taken to ensure a balanced ratio of the different examination forms. The courses of the elective modules available for selection are generally only held if at least five students have chosen an elective module at the beginning of the lecture period.

§ 10 Types and forms of examinations, processing times

(1) Examinations and coursework, as well as learning support measures, are identified as such in Appendices 1 and 3, which also specify the types of examinations. Possible types of examinations and coursework are those specified in the AMPO.

(2) Term papers are assigned, supervised, and graded by examiners. The type, scope, assignment date, and submission deadlines are announced at the latest at the beginning of the course. The processing time for term papers is up to six weeks, but at least four weeks. The examination board decides on exceptions.

(3) The examination in the “Project Work” module is taken in the form of a project. The processing time is three months for a scope of 150 hours. In individual cases, the examination board may extend the processing time by up to six weeks upon justified request. Students present their project work in a presentation that usually lasts 20 minutes. The presentation is followed by a 10-minute Q&A session on the topic of the project work. Students must pass both parts of the examination, i.e., the project work and the presentation including the Q&A session. If one part is not passed, all parts must be repeated.

§ 11 Semester abroad

If students intend to study abroad or study within the framework of a university cooperation with subsequent recognition of academic achievements and examinations, they must discuss the eligibility for recognition of academic achievements and examinations with the chair of the relevant examination board or a person appointed by him or her before the start of their external study period and conclude a learning agreement. After completing the stay abroad, the application for recognition of study and examination achievements must be submitted to the Examination Office.

§ 12 Master's thesis and colloquium on the master's thesis

Office will check the admission requirements for the master's thesis. Registration is complete when the Examination Office has confirmed that the admission requirements pursuant to § 8 (3) have been met and the topic has been assigned with the approval of the Examination Board. The processing time for the master's thesis from the date of registration is six months. In justified exceptional cases and upon request, the examination board may extend the deadline by up to six weeks, or in the case of dual, part-time, or other part-time study programs, by a maximum of nine months in addition to the extension option under § 10 (3) sentence 3 AMPO.

(2) Group work is not permitted for the master's thesis.

(3) The master's thesis must be submitted to the Examination Office in a single bound copy and in electronic form by the deadline. At the request of the examiners of the master's thesis, additional bound copies must be provided by the student.

(4) In the colloquium, students present their master's thesis in a 30-minute presentation. This is followed by a 30-minute question and answer session on the topic of the master's thesis.

§ 13 Module grade, weighting of grades, and certificate

(1) Module grades are calculated from the ECTS-weighted grades of all examination performances in a module, unless expressly specified otherwise in Appendix 1 or 3 or in these regulations. The weighting for calculating the overall grade in accordance with § 18 (1) AMPO is based on the ECTS credits of the modules in accordance with Appendices 1 and 3.

(2) A grade of “1.3” or better will result in the overall assessment “Passed with distinction” being awarded on the certificate.

§ 14 Scope, entry into force, expiry, transitional provisions

(1) These examination regulations apply to students who enroll in the master's programs Refinement and Sustainability of Polymer and Composite Products and Refinement and Sustainability of Polymer and Composite Products – Double Degree starting in the summer semester 2026. They shall enter into force on the day after their publication in the University Gazette of the University of Kaiserslautern.

(2) The examination regulations for the master's program in Refinement of Polymer and Composite Products at the University of Applied Sciences Kaiserslautern dated November 25, 2019 (University Gazette No. 53 of November 29, 2019, p. 16), last amended by the regulations dated July 13, 2023 (University Gazette No. 6/2023 dated July 31, 2023, p. 2), shall expire at the end of the 2027/2028 winter semester; enrollment in these subject examination regulations is no longer possible, notwithstanding the provision in paragraph 5, sentence 2.

(3) Students who are completing a degree program at the University of Kaiserslautern in accordance with the examination regulations specified in paragraph 2 have the option of completing their studies in accordance with their examination regulations up to and including the 2027/2028 winter semester; continuation of studies in the summer semester 2028 is possible upon timely application, provided that only the modules “Master's Thesis” or “Colloquium” or modules that are also required under these subject examination regulations are still outstanding. After the end of the semester referred to in sentence 1, the current subject examination regulations applicable to the following semester shall apply to the continuation of studies by re-registering in the relevant degree program, unless otherwise specified elsewhere. Notwithstanding the provisions of the existing examination regulations, the examination board may, in particularly justified exceptional cases, decide that a module for which no equivalent courses and, if applicable, examinations can be offered after the last regular course offering may be completed by another module; In addition, the examination board may decide on forms of examination for individual modules other than those provided for in the subject examination regulations; students must be informed of this at the beginning of the course.

(4) Upon application, students may switch to the current version of these subject examination regulations applicable to the relevant semester and continue and complete their studies in accordance with the provisions of these subject examination regulations. The application is irrevocable.

(5) The switch to these examination regulations and enrollment in the degree programs referred to in paragraph 1 in a higher semester can only be approved if the range of courses for the corresponding higher semester is guaranteed. In exceptional cases, the examination board may approve enrollment in accordance with the provisions of the examination regulations referred to in paragraph 2. When switching to these examination regulations, students' previous examination and study achievements will be recognized in accordance with § 16 AMPO; failed examination attempts will be counted as failed attempts in identical examinations under these examination regulations. Further details of the transition will be determined by the examination board.

Pirmasens, den 2.8.2026

Prof. Dr. Jörg Sebastian
Dekan des Fachbereichs
Name des Fachbereichs
Hochschule Kaiserslautern

Appendix 1: Modules and examinations in the Master´s program Refinement and Sustainability of Polymer and Composite Products

Syllabus of the Master´s Degree Program Refinement and Sustainability of Polymer and Composite Products – Full time

Start in winter semester (WS)

Module	Module details				LM VL	Information on examinations					Com-ments
	FS	CP Sem.	CP total	G			Art	Form	CP Exam	G	If applicable, specify alternative forms
Compulsory modules											
RSPCP 1.1 Research Management Skills and Processes	1	5	5	-	-	-	PL	M	5	-	Duration of the oral exam: 30 minutes
RSPCP 1.2 Advanced Mathematics for Engineers	2	5	5	-	-	-	PL	K	5	-	
RSPCP 1.3 Advanced Polymeric Material Science	1	5	5	-	-	-	PL	K	5		
RSPCP 1.4 Coating Technology and Functional Surfaces	2	5	5	-	-	-	PL	K	5	-	
RSPCP 1.5 Advanced Mechanics (Strength of Materials, Dynamics)	1	5	5	-	-	-	PL	K	5	-	
RSPCP 1.6 Material and Surface Characterization of Polymers and Composites	2	5	5	-	-	-	PL	K	5	-	
RSPCP 1.7 Circular Economy and Recycling of Polymers and Composites	1	5	5	-	-	-	PL	K	5	-	
RSPCP 4 Master´s Thesis and Colloquium	3	30	30	-	§ 8 Sec. 3	Master´s thesis	PL	MA	24	65 %	
						Colloquium	PL	KOL	6	35 %	
Compulsory elective modules [4)]											
RSPCP 2.1 Refinement of Polymer Compounds and Textiles	2	5	5	-	-		PL	K	5	-	
RSPCP 2.2 Chemical Means of the Refinement of Polymer and Composite Products	2	5	5	-	-		PL/ SL	K	5	-	1)
RSPCP 2.3 Refinement of Additively Manufactured Products	2	5	5	-	-		PL	K	5	-	
RSPCP 2.4 Colorimetry, Varnishing and Product Cleaning Technology	1	5	5	-	-		PL	K	5	-	
RSPCP 2.5 Fracture Mechanics and Tribology	1	5	5	-	-		PL	K	5	-	
RSPCP 2.6 Project Work	1	5	5	-	§ 8 Sec. 2		PL	PA	5	-	2)
RSPCP 2.7 Sustainability Management and Corporate Social Responsibility	1	5	5	-	-		SL	H	5	-	
RSPCP 2.8	1	5	5	-	-		SL	K	5	-	

Machine Learning and Artificial Intelligence											
RSPCP 2.9 Application Training and Presentation Techniques	2	5	5	-	-		SL	H	5	-	
RSPCP 2.10 3D-CAD and FEM	2	5	5	-	-		SL	H	5	-	
RSPCP 2.11 German A1	1	5	5	-	-		SL	M	5	-	§9 Sec. 2 sent. 2
RSPCP 2.12 German A2	2	5	5	-	-		SL	M	5	-	§9 Sec. 2 sent. 2
RSPCP 3.1 Research Thesis	2	15	15	-	-	Term paper	PL	PA	10	-	3)
						Colloquium	PL	M	5	-	

Legend

Type	Determination of whether it is an examination or coursework
CP	ECTS credits assigned to a module (total CP), the courses scheduled for the semester (CP semester), or an examination/examination element of the module in the respective semester (CP examination)
FS	Semester
Form	Specifies the form in which an examination is to be taken
G	Weighting for the overall grade when specified for the module, for the module grade when specified for the examination
H	Term paper
K	Written examination
KOL	Colloquium on the master's thesis
LM VL	Learning support measures and preliminary work required for admission to the examination are specified and defined here; further details are provided in the module handbook, if applicable
M	Oral examination
MA	Master's thesis
PA	Project work
PL	Examination performance
SL	Study performance
-	No entry
/	Alternative

Comments:

1) Module 2.2 is completed with a course assignment in the application orientation and with an examination in the research orientation.
2) The Project Work module (RPCP 2.6) must be selected in the application orientation. It cannot be selected if the student is studying in the research orientation. See § 9 (2) for more information.
3) The Research Thesis module must be chosen in the research orientation. See § 9 (2) for more information.
4) Elective modules can be chosen according to the respective semester offerings. Modules totaling 10 ECTS must be chosen in the first semester and 15 ECTS in the second semester.

Syllabus of the Master´s Degree Program Refinement and Sustainability of Polymer and Composite Products – Full time

Start in summer semester (SS)

Module	Module details				LM VL	Information on examinations					Com-ments
	FS	CP Sem.	CP total	G			Art	Form	CP Exam	G	If applicable, specify alternative forms
Compulsory modules											
RSPCP 1.1 Research Management Skills and Processes	1	5	5	-	-		PL	M	5	-	Duration of the oral exam: 30 minutes
RSPCP 1.2 Advanced Mathematics for Engineers	1	5	5	-	-		PL	K	5	-	
RSPCP 1.3 Advanced Polymeric Material Science	2	5	5	-	-		PL	K	5		
RSPCP 1.4 Coating Technology and Functional Surfaces	1	5	5	-	-		PL	K	5	-	
RSPCP 1.5 Advanced Mechanics (Strength of Materials, Dynamics)	2	5	5	-	-		PL	K	5	-	
RSPCP 1.6 Material and Surface Characterization of Polymers and Composites	1	5	5	-	-		PL	K	5	-	
RSPCP 1.7 Circular Economy and Recycling of Polymers and Composites	2	5	5	-	-		PL	K	5	-	
RSPCP 4 Master´s Thesis and Colloquium	3	30	30	-	§ 8 Sec. 3	Master´s thesis	PL	MA	24	65 %	
						Colloquium	PL	KOL	6	35 %	
Compulsory elective modules [4)]											
RSPCP 2.1 Refinement of Polymer Compounds and Textiles	1	5	5	-	-		PL	K	5	-	
RSPCP 2.2 Chemical Means of the Refinement of Polymer and Composite Products	1	5	5	-	-		PL/ SL	K	5	-	1)
RSPCP 2.3 Refinement of Additively Manufactured Products	1	5	5	-	-		PL	K	5	-	
RSPCP 2.4 Colorimetry, Varnishing and Product Cleaning Technology	2	5	5	-	-		PL	K	5	-	
RSPCP 2.5 Fracture Mechanics and Tribology	2	5	5	-	-		PL	K	5	-	
RSPCP 2.6 Project Work	2	5	5	-	§ 8 Sec. 2		PL	PA	5	-	2)
RSPCP 2.7 Sustainability Management and Corporate Social Responsibility	2	5	5	-	-		SL	H	5	-	
RSPCP 2.8 Machine Learning and Artificial Intelligence	2	5	5	-	-		SL	K	5	-	
RSPCP 2.9 Application Training and Presentation	1	5	5	-	-		SL	H	5	-	

Techniques											
RSPCP 2.10 3D-CAD and FEM	1	5	5	-	-		SL	H	5	-	
RSPCP 2.11 German A1	1	5	5	-	-		SL	M	5	-	§9 Sec. 2 sent. 2
RSPCP 2.12 German A2	2	5	5	-	-		SL	M	5	-	§9 Sec. 2 sent. 2
RSPCP 3.1 Research Thesis	2	15	15	15%	-	Term paper	PL	H	10	-	3)
						Colloquium	PL	M	5	-	

Legend

Type	Determination of whether it is an examination or coursework
CP	ECTS credits assigned to a module (total CP), the courses scheduled for the semester (CP semester), or an examination/examination element of the module in the respective semester (CP examination)
FS	Semester
Form	Specifies the form in which an examination is to be taken
G	Weighting for the overall grade when specified for the module, for the module grade when specified for the examination
H	Term paper
K	Written examination
KOL	Colloquium on the master's thesis
LM VL	Learning support measures and preliminary work required for admission to the examination are specified and defined here; further details are provided in the module handbook, if applicable
M	Oral examination
MA	Master's thesis
PA	Project work
PL	Examination performance
SL	Study performance
-	No entry
/	Alternative

Comments:

1) Module 2.2 is completed with a course assignment in the application orientation and with an examination in the research orientation.
2) The Project Work module (RPCP 2.6) must be selected in the application orientation. It cannot be selected if the student is studying in the research orientation. See § 9 (2) for more information.
3) The Research Thesis module must be chosen in the research orientation. See § 9 (2) for more information.
4) Elective modules can be chosen according to the respective semester offerings. Modules totaling 10 ECTS must be chosen in the first semester and 15 ECTS in the second semester.

Syllabus of the Master´s Degree Program Refinement and Sustainability of Polymer and Composite Products – Part time

Start in winter semester (WS)

Module	Module details				LM VL	Information on examinations					Com-ments
	FS	CP Sem.	CP total	G			Art	Form	CP Exam	G	If applicable, specify alternative forms
Compulsory modules											
RSPCP 1.1 Research Management Skills and Processes	1	5	5	-	-		PL	M	5	-	Duration of the oral exam: 30 minutes
RSPCP 1.2 Advanced Mathematics for Engineers	2	5	5	-	-		PL	K	5	-	
RSPCP 1.3 Advanced Polymeric Material Science	1	5	5	-	-		PL	K	5		
RSPCP 1.4 Coating Technology and Functional Surfaces	4	5	5	-	-		PL	K	5	-	
RSPCP 1.5 Advanced Mechanics (Strength of Materials, Dynamics)	3	5	5	-	-		PL	K	5	-	
RSPCP 1.6 Material and Surface Characterization of Polymers and Composites	6	5	5	-	-		PL	K	5	-	
RSPCP 1.7 Circular Economy and Recycling of Polymers and Composites	5	5	5	-	-		PL	K	5	-	
RSPCP 4 Master´s Thesis and Colloquium	7	30	30	-	§ 8 Sec. 3	Master´s thesis	PL	MA	24	65 %	
						Colloquium	PL	KOL	6	35 %	
Compulsory elective modules [4)]											
RSPCP 2.1 Refinement of Polymer Compounds and Textiles	[4)]	5	5	-	-		PL	K	5	-	
RSPCP 2.2 Chemical Means of the Refinement of Polymer and Composite Products	[4)]	5	5	-	-		PL/ SL	K	5	-	[1)]
RSPCP 2.3 Refinement of Additively Manufactured Products	[4)]	5	5	-	-		PL	K	5	-	
RSPCP 2.4 Colorimetry, Varnishing and Product Cleaning Technology	[4)]	5	5	-	-		PL	K	5	-	
RSPCP 2.5 Fracture Mechanics and Tribology	[4)]	5	5	-	-		PL	K	5	-	
RSPCP 2.6 Project Work	[4)]	5	5	-	§ 8 Sec. 2		PL	PA	5	-	[2)]
RSPCP 2.7 Sustainability Management and Corporate Social Responsibility	[4)]	5	5	-	-		SL	H	5	-	
RSPCP 2.8 Machine Learning and Artificial Intelligence	[4)]	5	5	-	-		SL	K	5	-	
RSPCP 2.9 Application Training and	[4)]	5	5	-	-		SL	H	5	-	

Presentation Techniques											
RSPCP 2.10 3D-CAD and FEM	4)	5	5	-	-		SL	H	5	-	
RSPCP 2.11 German A1	4)	5	5	-	-		SL	M	5	-	§9 Sec. 2 sent. 2
RSPCP 2.12 German A2	4)	5	5	-	-		SL	M	5	-	§9 Sec. 2 sent. 2
RSPCP 3.1 Research Thesis	4)	15	15	15%	-	Term paper	PL	H	10	-	3)
						Colloquium	PL	M	5	-	

Legend

Type	Determination of whether it is an examination or coursework
CP	ECTS credits assigned to a module (total CP), the courses scheduled for the semester (CP semester), or an examination/examination element of the module in the respective semester (CP examination)
FS	Semester
Form	Specifies the form in which an examination is to be taken
G	Weighting for the overall grade when specified for the module, for the module grade when specified for the examination
H	Term paper
K	Written examination
KOL	Colloquium on the master's thesis
LM VL	Learning support measures and preliminary work required for admission to the examination are specified and defined here; further details are provided in the module handbook, if applicable
M	Oral examination
MA	Master's thesis
PA	Project work
PL	Examination performance
SL	Study performance
-	No entry
/	Alternative

Comments:

1) Module 2.2 is completed with a course assignment in the application orientation and with an examination in the research orientation.
2) The Project Work module (RPCP 2.6) must be selected in the application orientation. It cannot be selected if the student is studying in the research orientation. See § 9 (2) for more information.
3) The Research Thesis module must be chosen in the research orientation. See § 9 (2) for more information.
4) Elective modules can be chosen according to the respective semester offerings. Modules totaling 10 ECTS must be chosen in the first semester and 15 ECTS in the second semester.

Syllabus of the Master´s Degree Program Refinement and Sustainability of Polymer and Composite Products – Part time

Start in summer semester (SS)

Module	Module details				LM VL	Information on examinations					Com-ments
	FS	CP Sem.	CP total	G			Art	Form	CP Exam	G	If applicable, specify alternative forms
Compulsory modules											
RSPCP 1.1 Research Management Skills and Processes	1	5	5	-	-		PL	M	5	-	Duration of the oral exam: 30 minutes
RSPCP 1.2 Advanced Mathematics for Engineers	1	5	5	-	-		PL	K	5	-	
Advanced Polymeric Material Science	2	5	5	-	-		PL	K	5		
RSPCP 1.4 Coating Technology and Functional Surfaces	3	5	5	-	-		PL	K	5	-	
RSPCP 1.5 Advanced Mechanics (Strength of Materials, Dynamics)	4	5	5	-	-		PL	K	5	-	
RSPCP 1.6 Material and Surface Characterization of Polymers and Composites	5	5	5	-	-		PL	K	5	-	
RSPCP 1.7 Circular Economy and Recycling of Polymers and Composites	6	5	5	-	-		PL	K	5	-	
RSPCP 4 Master´s Thesis and Colloquium	7	30	30	-	§ 8 Sec. 3	Master´s thesis	PL	MA	24	65 %	
						Colloquium	PL	KOL	6	35 %	
Compulsory elective modules [4)]											
RSPCP 2.1 Refinement of Polymer Compounds and Textiles	[4)]	5	5	-	-		PL	K	5	-	
RSPCP 2.2 Chemical Means of the Refinement of Polymer and Composite Products	[4)]	5	5	-	-		PL/ SL	K	5	-	[1)]
RSPCP 2.3 Refinement of Additively Manufactured Products	[4)]	5	5	-	-		PL	K	5	-	
RSPCP 2.4 Colorimetry, Varnishing and Product Cleaning Technology	[4)]	5	5	-	-		PL	K	5	-	
RSPCP 2.5 Fracture Mechanics and Tribology	[4)]	5	5	-	-		PL	K	5	-	
RSPCP 2.6 Project Work	[4)]	5	5	-	§ 8 Sec. 2		PL	PA	5	-	[2)]
RSPCP 2.7 Sustainability Management and Corporate Social Responsibility	[4)]	5	5	-	-		SL	H	5	-	
RSPCP 2.8 Machine Learning and Artificial Intelligence	[4)]	5	5	-	-		SL	K	5	-	
RSPCP 2.9 Application Training and Presentation	[4)]	5	5	-	-		SL	H	5	-	

Techniques											
RSPCP 2.10 3D-CAD and FEM	[4]	5	5	-	-		SL	H	5	-	
RSPCP 2.11 German A1	[4]	5	5	-	-		SL	M	5	-	§9 Sec. 2 sent. 2
RSPCP 2.12 German A2	[4]	5	5	-	-		SL	M	5	-	§9 Sec. 2 sent. 2
RSPCP 3.1 Research Thesis	[4]	15	15	15%	-	Term paper	PL	H	10	-	[3]
						Colloquium	PL	M	5	-	

Legend

Type	Determination of whether it is an examination or coursework
CP	ECTS credits assigned to a module (total CP), the courses scheduled for the semester (CP semester), or an examination/examination element of the module in the respective semester (CP examination)
FS	Semester
Form	Specifies the form in which an examination is to be taken
G	Weighting for the overall grade when specified for the module, for the module grade when specified for the examination
H	Term paper
K	Written examination
KOL	Colloquium on the master's thesis
LM VL	Learning support measures and preliminary work required for admission to the examination are specified and defined here; further details are provided in the module handbook, if applicable
M	Oral examination
MA	Master's thesis
PA	Project work
PL	Examination performance
SL	Study performance
-	No entry
/	Alternative

Comments:

1) Module 2.2 is completed with a course assignment in the application orientation and with an examination in the research orientation.
2) The Project Work module (RPCP 2.6) must be selected in the application orientation. It cannot be selected if the student is studying in the research orientation. See § 9 (2) for more information.
3) The Research Thesis module must be chosen in the research orientation. See § 9 (2) for more information.
4) Elective modules can be chosen according to the respective semester offerings. Modules totaling 10 ECTS must be chosen in the first semester and 15 ECTS in the second semester.

Appendix 2: Regulations governing admission to the Master's program in Refinement and Sustainability of Polymer and Composite Products

§ 1
Special admission requirements

(1) The master's program is a consecutive program and requires a first professionally qualifying university degree. Admission to the master's program requires proof of a professionally qualifying university degree in an engineering or natural sciences program comprising 210 ECTS credits with a grade of at least 2.5 and evidence of professional and personal suitability. Admission in accordance with § 5 (1) sentences 2-5 AMPO is also possible in justified exceptional cases with the approval of the examination board if up to 30 ECTS credits are missing.

(2) The examination board may admit applicants who have earned fewer than 210 but at least 180 ECTS credits, subject to certain conditions. These conditions may be fulfilled, for example, by the recognition of additional bachelor's modules, by relevant extracurricular studies abroad, or by relevant and qualified professional experience. With the prior approval of the examination board, modules from bachelor's degree programs at the University of Kaiserslautern may also be taken to fulfill the conditions. The examination board shall inform the applicant of the conditions before the start of the master's program. The conditions must be fulfilled by the time of registration for the master's thesis.

(3) Admission may also be conditional upon a university degree in another degree program, provided that the examination board has determined that it is equivalent; in all other respects, the provisions of these admission regulations apply accordingly. If equivalence is established, the examination board may admit the student to the program subject to conditions that, together with the existing university degree, fulfill the equivalence requirement. Admission is not possible if conditions totaling more than 30 ECTS would be required to fulfill the equivalence. The conditions must be fulfilled by the time the master's thesis is registered.

(4) Professional aptitude must be demonstrated by means of relevant, sound technical knowledge and skills. Professional aptitude is taken into account in the assessment procedure in accordance with § 3. If no degree certificate is available at the time of application, an unweighted average is calculated from the grades on the certified transcript of records available at the application deadline.
(5) Die persönliche Eignung soll sich in einem ausgeprägten Interesse am Masterstudium Refinement and Sustainability of Polymer and Composite Products, einer entsprechend hohen Motivation und einem besonderen Engagement zeigen, und ist durch die schriftliche Darstellung des persönlichen und beruflichen Werdegangs und der Beweggründe für die beabsichtigte Aufnahme des Studiums nachzuweisen. Die persönliche Eignung wird im Rahmen des Bewertungsverfahrens gemäß § 3 berücksichtigt.

(6) Applicants whose native language is not English must have a good command of English, at least at level B2, TOEIC Listening and Reading 785, TOEIC Speaking and Writing 310, TOEFL iBT 87, TOEFL ITP 543, IELTS 6.0, or equivalent, at the latest at the time of application. Proof of German language skills is not required.

(7) Applicants must submit a certificate from a recognized English language test that is no more than 24 months old with their application.

§ 2
Application for admission, application deadline

(1) The provisions of the regulations governing student enrollment at the University of Kaiserslautern (enrollment regulations) in their currently valid version apply to the application for admission and the application deadline.

(2) Proof of fulfillment of the special admission requirements of § 1 of these regulations must be provided in the form of suitable documents in German or English together with the application for admission.

(3) Applications for the winter semester must be submitted by May 31, and applications for the summer semester must be submitted by November 30.

§ 3
Assessment Procedure

(1) The examination board appoints two professors to evaluate the application documents.

(2) The degree of aptitude shall be determined by means of a point system (Table A). The points for the professional aptitude shall be awarded in accordance with the degree of coverage of the required competences from the undergraduate degree program (Table B), in accordance with the final grade of the undergraduate degree (Table C) and based on the existence of relevant work experience (Table D):

		Rating	Minimum rating required for admission
Professional aptitude	Coverage degree of undergraduate degree (Table B)	0 – 3 points	1 point
Professional aptitude	Final Grade Table C)	0 – 6 points	1 point
Professional aptitude	Work experience (Table D)	0 – 2 points	--
Personal aptitude	Presentation of personal career history	0 – 3 points	1 point
Personal aptitude	Motivational letter	0 – 3 points	1 point

Table A: Point system for assessment of aptitude and for admission

Competence in study areas	**Points**			
	Degree programs of HSKL or identical ones	Strong overlap in content	Little overlap in content	Non-comparable degree program
Polymer Engineering	**3**	**2**	**1**	**0**
Leather Processing and ShoeEngineering	**3**	**2**	**1**	**0**
Textile Engineering	**3**	**2**	**1**	**0**
Chemical Engineering	**3**	**2**	**1**	**0**
Mechanical Engineering	**3**	**2**	**1**	**0**

Table B: Degree of coverage of competences in the study area by the undergraduate degree

Grades better than	Up to and including	**Points**
	1.0	**6**
1.0	1.3	**5**
1.3	1.6	**4**
1.6	1.9	**3**
1.9	2.2	**2**
2.2	2.5	**1**

Table C: Final grades of undergraduate degree

Length of working experience	none	< one year	> one year
Points	0	1	2

Table D: Work experience

§ 4
Admission

Applicants with a score of at least 10 points will be admitted.

Appendix 3: Modules and examinations in the Master´s program Refinement and Sustainability of Polymer and Composite Products – Double Degree

Syllabus of the Master´s Degree Program Refinement and Sustainability of Polymer and Composite Products – Double Degree

Start in winter semester (WS)

Modul	Module details				LM VL	Information on examinations					Com-ments
	FS	CP Sem.	CP total	G			Art	Form	CP Exam	G	If applicable, specify alternative forms
Compulsory modules											
RSPCP 1.1 Research Management Skills and Processes	1	5	5	-	-		PL	M	5	-	Duration of the oral exam: 30 minutes
RSPCP 1.2 Advanced Mathematics for Engineers	2	5	5	-	-		PL	K	5	-	
RSPCP 1.3 Advanced Polymeric Material Science	1	5	5	-	-		PL	K	5		
RSPCP 1.4 Coating Technology and Functional Surfaces	2	5	5	-	-		PL	K	5	-	
RSPCP 1.5 Advanced Mechanics (Strength of Materials, Dynamics)	1	5	5	-	-		PL	K	5	-	
RSPCP 1.6 Material and Surface Characterization of Polymers and Composites	2	5	5	-	-		PL	K	5	-	
RSPCP 1.7 Circular Economy and Recycling of Polymers and Composites	1	5	5	-	-		PL	K	5	-	
TUIP/TE7L1 Polymer Engineering Laboratory I	3	6	6	-			PL	K	6	-	The form of examination may vary. It is governed by the examination regulations at the partner university.
TUFMI/TE7RE Plastics Recycling	3	4	4	-			PL	K	2	-	
TUIP/TE7PO Plastics Packaging	3	2	2	-			SL	K	2	-	
TUIP/TE7TZ Thermosetting Technology	3	5	5	-			PL	K	5	-	
TCPM/TE7AR Applied Rheology	3	7	7	-			PL	K	7	-	
TUIP/TE9M2 Modelling of Polymer Processing	3	4	4	-			PL	K	4	-	
TUIP/TE9PU Surface Modification and Adhesion	3	4	4	-			PL	K	4	-	
TUIP/TE0DP – RSPCP 4 Master´s Thesis and Colloquium	4	30	30	-	§ 8 Sec. 3	Master´s thesis	PL	MA	24	65 %	
						Colloquium	PL	KOL	6	35 %	
Compulsory elective modules [4)]											
RSPCP 2.1 Refinement of Polymer Compounds and Textiles	2	5	5	-	-		PL	K	5	-	
RSPCP 2.2	2	5	5	-	-		PL/ SL	K	5	-	[1)]

Chemical Means of the Refinement of Polymer and Composite Products											
RSPCP 2.3 Refinement of Additively Manufactured Products	2	5	5	-	-		PL	K	5	-	
RSPCP 2.4 Colorimetry, Varnishing and Product Cleaning Technology	1	5	5	-	-		PL	K	5	-	
RSPCP 2.5 Fracture Mechanics and Tribology	1	5	5	-	-		PL	K	5	-	
RSPCP 2.6 Project Work	1	5	5	-	§ 8 Sec. 2		PL	PA	5	-	2)
RSPCP 2.7 Sustainability Management and Corporate Social Responsibility	1	5	5	-	-		SL	H	5	-	
RSPCP 2.8 Machine Learning and Artificial Intelligence	1	5	5	-	-		SL	K	5	-	
RSPCP 2.9 Application Training and Presentation Techniques	2	5	5	-	-		SL	H	5	-	
RSPCP 2.10 3D-CAD and FEM	2	5	5	-	-		SL	H	5	-	
RSPCP 2.11 German A1	1	5	5	-	-		SL	M	5	-	§ 9 Sec. 2 sen. 2
RSPCP 2.12 German A2	2	5	5	-	-		SL	M	5	-	§ 9 sec. 2 sen. 2
RSPCP 2.13 Scientific Literature Survey	2	3	3	-	-		SL	H	3	-	
RSPCP 3.1 Research Thesis	2	15	15	-	-	Term paper	PL	PA	10	-	3)
						Colloquium	PL	M	5	-	

Legend

Type	Determination of whether it is an examination or coursework
CP	ECTS credits assigned to a module (total CP), the courses scheduled for the semester (CP semester), or an examination/examination element of the module in the respective semester (CP examination)
FS	Semester
Form	Specifies the form in which an examination is to be taken
G	Weighting for the overall grade when specified for the module, for the module grade when specified for the examination
H	Term paper
K	Written examination
KOL	Colloquium on the master's thesis
LM VL	Learning support measures and preliminary work required for admission to the examination are specified and defined here; further details are provided in the module handbook, if applicable
M	Oral examination
MA	Master's thesis
PA	Project work
PL	Examination performance
SL	Study performance
-	No entry
/	Alternative

Comments:

1) Module 2.2 is completed with a course assignment in the application orientation and with an examination in the research orientation.
2) The Project Work module (RPCP 2.6) must be selected in the application orientation. It cannot be selected if the student is studying in the research orientation. See § 9 (2) for more information.
3) The Research Thesis module must be chosen in the research orientation. See § 9 (2) for more information.
4) Elective modules can be chosen according to the respective semester offerings. Modules totaling 10 ECTS must be chosen in the first semester and 15 ECTS in the second semester.

Appendix 4: Special regulations for the Master's program in Refinement and Sustainability of Polymer and Composite Products – Double Degree

In the master's program Refinement and Sustainability of Polymer and Composite Products – Double Degree, students receive a master's degree from the University of Applied Sciences Kaiserslautern as well as a master's degree from Tomas Bata University in Zlin, Czechia.

1. Special admission requirements

Master's program in Refinement and Sustainability of Polymer and Composite Products – Double Degree The prerequisite for enrollment in the master's program in Refinement and Sustainability of Polymer and Composite Products – Double Degree is enrollment in the bachelor's program in Refinement and Sustainability of Polymer and Composite Products. Students can only be enrolled in the master's program in Refinement and Sustainability of Polymer and Composite Products – Double Degree in the winter semester. The application for enrollment must be submitted in the summer semester prior to enrollment. The application must be accompanied by a transcript of records and a letter of motivation. Selection for participation in the double degree program is made by a selection committee of the universities participating in the double degree program in accordance with the cooperation agreement.

The deadline for submitting the application will be announced to students in good time.

Enrollment in the master's program Refinement and Sustainability of Polymer and Composite Products – Double Degree is only possible if a cooperation agreement for this double degree program exists with Tomas Bata University, Zlin.

2. Course structure

The modules and examinations of the first two semesters as specified in Appendix 3 are completed at the University of Applied Sciences Kaiserslautern, while the modules and examinations of the third and fourth semesters are completed at the partner university Tomas Bata University in Zlin, Czechia.

3. Modules and examinations

To graduate from the University of Kaiserslautern, students must complete the modules and examinations listed in Appendix 3. The regulations of the respective partner university apply to the examinations. The modules to be completed at the partner university in Zlin will be recognized. Grades will be converted according to the following conversion table:

UAS Kaiserslautern	UTB Zlin
1	A
1.3	A
1.7	B
2	B
2.3	C
2.7	C
3	C
3.3	D
3.7	E
4	E
5.0	F

UTB Zlin	UAS Kaiserslautern
A	1
B	1.7
C	2.3
D	3.3
E	3.7
F	5.0

UAS Kaiserslautern	Grade Definition	UTB Zlin
1 – 1.5	Outstanding (Exzellent)	A
1.6 – 2.0	Very good (Sehr gut)	B
2.1 – 3.0	Good (Gut)	C
3.1 – 3.5	Satisfactory (Befriedigend)	D
3.6 – 4.0	Sufficient (Ausreichend)	E
4.1 – 5.0 (6.0)	Fail (Nicht ausreichend)	F

4. Comments

Elective modules can be chosen from the range offered in the respective semester. Modules totaling 10 ECTS credits must be chosen in the first semester and 13 ECTS credits in the second semester.

5. Master´s thesis

The master's thesis is written in English and submitted to the respective partner university in accordance with the regulations applicable there. The master's thesis is assessed by a total of two examiners, with one examiner being appointed by each partner university.

6. Double Degree

Degrees at the two cooperating universities are obtained by completing the modules and examinations listed in Appendix 3 in accordance with the rules of these subject examination regulations..