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	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 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 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 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	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 Techniques	1	5	5	-	-		SL	H	5	-	
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.