Study Program Refinement of Polymer and Composite Products

Module overview

Winter semester	SWS | ECTS
Research Management Skills and Processes	4 | 5
Advanced Mechanics	4 | 5
Advanced Material Science*	4 | 5
Colorimetry, Varnishing and Product Cleaning*	4 | 5
Fracture Mechanics and Tribology*	4 | 5
Corporate Social Responsibility*	4 | 5
Machine Learning and Artificial Intelligence *	4 | 5
Project Work*	| 5
Research Thesis*	| 20
Total	24 | 30

Summer semester	SWS | ECTS
Advanced Mathematics for Engineers	4 | 5
Material and Surface Characterisation of Polymers and Composites	4 | 5
Coating Technology and Functional Surfaces	4 | 5
Refinement of Polymer Compounds and Textiles*	4 | 5
Customer Oriented Polymer Refinement*	4 | 5
Refinement of Additively Manufactured Products*	4 | 5
Bewerbungstraining und Präsentationstechniken*	4 | 5
Project Work*	| 5
Research Thesis*	| 20
Total	24 | 30

3rd Semester	ECTS
Master Thesis/Colloquium	24 / 6
Total	30

* elective modules

Explanations and Contact

In the Refinement of Polymer and Composite Products - RPCP program, which is unique worldwide, you will systematically gain technical expertise and develop your personal competencies. You will become fully qualified and well prepared to adjust to the various requirements you will encounter in your future career. The program is completely taught in English. Lectures, seminars, internships, and excursions will

SWS = Semesterwochenstunden (lecture hours per week), ECTS = Credit Points nach European Credit Transfer System

Stand: Wintersemester 2021/2022

provide you with a solid knowledge of technical processes, advanced sciences and also economic aspects. Some tasks can be solved by means of teamwork, cooperating together with your fellow students.

This Master program covers three semesters and can be commenced twice a year - in the winter semester and in the summer semester. In total, 90 credit points are to be collected. In addition to the 210 credit points attained from a seven-semester Bachelor degree program, 300 points can be achieved in total, which, in turn, qualifies a Master study course graduate for Ph.D. programs. It is possible for Bachelor graduates, who have only attained 180 points from a six-semester study course, to obtain a further 30 points by means of additional modules. You can align your studies with your own needs and preferences by choosing between two directions of specialization:

- Engineering
- Research

In the „Engineering"- direction, you have to choose six elective module besides six obligatory modules. In the „Research"-direction, you have to perform a research thesis where you can define you own research topic. In addition, you have to choose two elective modules besides six compulsory modules. After completing the Master's thesis in the third semester, you will receive the degree "Master of Science" enabling you to proceed to a Ph.D. program.

This Master program can be commenced twice a year. Complementary information regarding modules is available at: **www.hs-kl.de**. Information regarding admission requirements, applications and enrolment is available at **www.hs-kl.de/bewerben**.

Contact data

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