Modulname Modulname	**EL Simulation driven design (SDD)**	
Modulverantwortlicher/ Modulverantwortliche Module responsibility	Prof. Dr.-Ing. Andreas Dietzel (Modulverantwortung)	
Qualifikationsziele Qualification goals	Basic knowledge of 3D CAD software, Fundamentals of Engineering Mechanics	
Modulinhalte Module contents	This course provides the basics and advantages of Live-Simulation (designrelated simulation), a method for using CAE-technologies directly indside of the design process/by the design engineer, to test ideas for their feasibility and compare concepts/variants of parts and assemblies objectively. The development process can thus be made faster and more reliable by eliminating uncertainties during the early designphase. The software systems PTC CREO Parametric and CREO SIMULATE resp. ANSYS Workbench are used in the course. Previous knowledge of the programmes mentioned is advantageous, but not required.	
Lehrformen Forms of teaching	Vorlesung (2 SWS) Praktikum (2 SWS)	
Voraussetzungen für die Teilnahme Requirements for participation	vacant	
Literatur/multimediale Lehr- und Lernprogramme Further readings/Learning programmes	vacant	
Lehrbriefautor Textbook author	keiner	
Verwendbarkeit Usability	Pool International (English Lectures for Contact students) F MB PI	
Arbeitsaufwand/Gesamtworkload Workload/Total workload	Präsenzzeit 60 h + Vorbereitung 90 h = 150 Stunden = 5.0 Credit Punkte presence 60 h + preparation 90 h = 150 hours = 5.0 credit points	
ECTS und Gewichtung der Note in der Gesamtnote ECTS and weighting in overall grade	5.00	1
Leistungsnachweis Performance record	written examnation 120 min	
Semester Semester	2	
Häufigkeit des Angebots Frequency of the offer	summer term	

Dauer Duration	1 Semester
Art der Lehrveranstaltung Type of course	anually in summer term
Besonderes Peculiarity	