

Modulbeschreibung zum Modul WP.N: Parametric 3D Modeling

Module title	Parametric 3D Modeling
Module number	
Module code	
Study program	Elektro- und Informationstechnik
Module usability	
Module duration	One semester
Module type	Elective module
Recommended semester	4th or 5th semester
ECTS (CP) / Workload (h)	5 CP / 150 h
Recommended previous knowledge	Halbleiterschaltungstechnik und Elektrische Messtechnik
Module prerequisites	None
Module examination requirements	Laboratory attestation: written report per laboratory task, total workload 16 h Successful completed modules of the 1st and 2nd semester
Module examination	Written report for final project (time limit 4 weeks)
Learning outcomes and skills	After completion of this course the student will understand the fundamentals of parametric 3D modeling. The student will be familiar with the most common operations involved in application development. The student will understand the parametric modeling workflow and its key characteristics, applied to 3D part design. The student can design and implement a functional 3D prototype of an electronics enclosure.

Module contents	<p>3D modeling of components</p> <p>Constraints and construction lines</p> <p>Technical drawings and 3D model</p> <p>Creating assemblies</p> <p>3D manufacturing and materials</p>
Module teaching methods	Seminaristic teaching with integrated exercise and laboratory
Module language	English
Module availability	Das Angebot an Wahlpflichtmodulen wird vom Fachbereichsrat am Ende eines jeden Semesters für das folgende Semester festgelegt.
Module coordination	Prof. Dr. Manfred Jungke
Comments	