

Module description: CAD for MT			
Module Code	t.BA.MTI.CAD.19HS		
ECTS Credits	2		
Language of Instruction/Examination	German		
Organizational Unit	IPP		
Module Coordinator	Peter Hug		
Legal Framework	The module description is part of the legal basis in addition to the general academic regulations. It is binding. During the first week of the semester a written and communicated supplement can specify the module description in more detail.		
Module Characteristic	Type 1b 2 lecture lessons per semester week and half-class		
Module Description	Students are familiarised with the handling and application of a modern CAD/PLM program. The tuition is designed to build students' skills progressively from the outlines of the modelling through to component assembly. What is learned is immediately applied in the project module.		
Module Content	<ul style="list-style-type: none"> • - Introduction to the CAD/PLM technologies • - Sketching -> with CAD • - Individual parts (Part Design) • - Casting-specific functions & methods • - Import/Export of parts/assemblies via STEP/STL • - Combinations (Assembly Design) • - Method in a CAD/PLM environment • - Collaboration in the CAD/PLM system in the team 		
Prerequisite Knowledge			
Learning Objectives (Competences)	Students...	Competencies	Taxonomies
	receive knowledge about the creation of a cast construction in the CAD	F	K2
	master the application of the basic CAD functions (Sketcher, PartDesign, Assembly)	F	K3
	gain knowledge of collaborative cooperation in a CAD/PLM environment	M	K3
	can model individual parts and assembly structures in the CAD	F	K3
	Are aware of methodologically good approaches for modeling individual parts and structuring assemblies	M	K3
	are in the position to import external CAD models and export their own	F	K3
	gain knowledge about operations in a modern CAD/PLM environment	M	K3
	Can independently pick up knowledge from tutorials and put it into practice	SE	K2

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Performance Assessment	End-of-module exam	Assessment	Length (min.)	Weighting	Form	
	written exam	Grade	90	100	acc. to module agreement	
	Performance assessment during the semester		Assessment	Length (min.)	Weighting	Form
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Classroom Attendance Requirement	None					
Learning material						
Comments	CAD lessons take place in half-classes (max 20 people) in classrooms specially equipped with CAD workstations. For CAD beginners, we recommend visiting the "Technical Drawing/CAD" pre-course.					