

Module description: CAD for EU						
Module Code	t.BA.EUI.CAD.19HS					
ECTS Credits	2					
Language of Instruction/Examination	German					
Organizational Unit	IEFE					
Module Coordinator	Frank Tillenkamp					
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 learn how to use a three-dimensional CAD system (HVAC, Building Automation and Architecture) and apply it in practice. Students will be able to estimate the time necessary for CAD work. The Application of the learned knowledge should be made possible in the following project modules.					
Module Content	<ul style="list-style-type: none"> The content is taught with active exercises and examples on your own PCs. The necessary operating steps for CAD are demonstrated and practiced together. 					
Prerequisite Knowledge	https://gmppublic.zhaw.ch/GPMDocProdDPublic/2_Studium/2_02_Grundlagen_Studium/T_C_L_Moduluspraegungen_SM2025.pdf					
Learning Objectives (Competences)	Students...		Competencies	Taxonomies		
	Basic operation of the CAD program		F	K1		
	Creation of principle diagrams of the building services engineering / Data exchange topics		M, F	K2, K3		
	Production of 3D drawings based on architectural ground plans.		F	K2		
	Preparation of 2D drawings incl. dimensioning and legend		F	K1, K2		
	Creation of 3D models based on tasks and creation of 2D drawing excerpts.		M	K3		
Performance Assessment	End-of-module exam	Assessment	Length (min.)	Weighting	Form	
	written exam	Grade	90	70	acc. to module agreement	
	Performance assessment during the semester		Assessment	Length (min.)	Weighting	Form
	Testat <i>Examination of CAD work on Computer</i>		Grade	60	30	acc. to module agreement
Classroom Attendance Requirement	None					
Learning material	<ul style="list-style-type: none"> Manual and Tutorials for the software. Handouts 					
Comments						