

Module title		Abbreviation
3D-printing & CAD in education (cross-curricular)		14-MIND-3D-221-m01
Module coordinator		Module offered by
head of MIND-Center		M!nd-Center
ECTS	Method of grading	Only after succ. compl. of module(s)
3	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>3D printing is becoming more and more important in the additional offerings of schools, but also in regular lessons. The students acquire extensive knowledge of various 3D printing techniques and gain insights into their use in various areas of industry and business. In addition, they get to know various modeling techniques from beginner tools to professional software, which can be used effectively both for their own purposes and with schoolchildren. In addition to many practical exercises, the didactic role is not going to be neglected. As a thesis, the students develop an object from the 3D printer for their own lessons.</p>		
Intended learning outcomes		
<p>The students are able to lead a 3D printing plus course on their own or to properly implement 3D printing content in the classroom. They have an overview of common techniques and software and can use them appropriate.</p>		
Courses (type, number of weekly contact hours, language – if other than German)		
S (2)		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
a) project with presentation (approx. 20 minutes) or b) portfolio (approx. 10 pages)		
Allocation of places		
<p>15 Should the number of applications exceed the number of available places, places will be allocated as follows: (1) Places will be allocated according to the number of subject semesters. (2) A waiting list will be maintained and places re-allocated as they become available.</p>		
Additional information		
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Workload		
90 h		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
keinem Studiengang zugeordnet		