

Module title		Abbreviation
The fundamental principles of technical education in the subject Arbeit-Wirtschaft Technik		o6-AL-Technik-152-mo1
Module coordinator		Module offered by
Subject Representative (Fachvertreter) Arbeitslehre Didactics		
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	Regular attendance of seminar is mandatory (minimum 70% of seminar sessions).
Contents		
a) Fundamental principles of technology: relevance and history of technology; natural-scientific foundations of technology; structures involved in technology (basic categories material, energy, and information); aspects of energy and manufacturing engineering; aspects of communication and information technology. b) Evaluation of technology: technology assessment; methods for the evaluation of technology (value engineering, life cycle); introduction to methods for technical education.		
Intended learning outcomes		
After successful completion of the module, students will: have developed an essential knowledge of the relevance, development, and natural-scientific foundations of technology; have gained an overview of the structures involved in technology and of the basic categories of technology; have developed knowledge and skills in the area of technology assessment (examples); have developed knowledge of methods for the evaluation of technology; be able to describe the structures of selected technological systems; have gained an insight into aspects of manufacturing and energy engineering as well as communication and information technology; have become familiar with fundamental methods for technical education in the classroom; be able to apply selected methods for fundamental technical education in practice.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (2) + Ü (2) Course type: Ü eLearning, mostly Virtuelle Hochschule Bayern (vhb)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
Designing a seminar unit (introduction, moderating and preparing seminar materials) (approx. 60 minutes) including documentation of seminar unit (approx. 8 pages) creditable for bonus		
Allocation of places		
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Additional information		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
§ 38 I Nr. 1		
Module appears in		
First state examination for the teaching degree Sonderpädagogik Ergonomics (Teaching at the German Mittelschule) (2015) First state examination for the teaching degree Mittelschule Ergonomics (Teaching at the German Mittelschule) (2015)		