

Module title		Abbreviation
Data Science 1		10-xtAI=DS1-202-m01
Module coordinator		Module offered by
Dean of Studies Informatik (Computer Science)		Institute of Computer Science
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
Foundations in the following areas: approaches to data acquisition, preprocessing, management, storage and visualisation of large amounts of data. Working with different data types. Supervised and unsupervised learning methods. Classical approaches to information extraction.		
Intended learning outcomes		
The students have the theoretical and practical knowledge of typical procedures and algorithms in the field of data science and machine learning. They are able to solve practical problems of data representation and knowledge discovery with the methods taught. They have gained experience in the application or implementation of data science algorithms.		
Courses (type, number of weekly contact hours, language – if other than German)		
V (2) + Ü (2) Module taught in: English		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
Written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: English 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)		
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Module appears in		
Master's degree (1 major) eXtended Artificial Intelligence (xtAI) (2020)		