

<b>Module title</b>		<b>Abbreviation</b>
Data Science 1		10-xtAI=DS1-202-m01
<b>Module coordinator</b>		<b>Module offered by</b>
Dean of Studies Informatik (Computer Science)		Institute of Computer Science
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	graduate	--
<b>Contents</b>		
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.		
<b>Intended learning outcomes</b>		
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.		
<b>Courses</b> (type, number of weekly contact hours, language – if other than German)		
V (2) + Ü (2) Module taught in: English		
<b>Method of assessment</b> (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		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
Master's degree (1 major) eXtended Artificial Intelligence (xtAI) (2020) Master's degree (1 major) Artificial Intelligence & Extended Reality (2024)		
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