

Module title		Abbreviation
Data Compression		10-I=DK-102-m01
Module coordinator		Module offered by
holder of the Chair of Computer Science II		Institute of Computer Science
ECTS	Method of grading	Only after succ. compl. of module(s)
8	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	Where applicable, prerequisites as specified by the lecturer at the beginning of the course (e. g. completion of exercises).
Contents		
Entropy coding, text compression, dictionary methods, block transformations, image compression, human visual system, bitplane techniques, predicative methods, hierarchical transformations, discrete cosine transform, wavelets, JPEG baseline, JPEG 200, subband coding, fractal compression, vector quantisation, video compression, MPEG standards, audio compression.		
Intended learning outcomes		
The students possess the methodic knowledge and practical skills for the development and use of compression methods for text, image, video and audio data.		
Courses (type, number of weekly contact hours, language – if other than German)		
V + Ü (no information on SWS (weekly contact hours) and course language available)		
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. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to 90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3. Language of assessment: German, English if agreed upon with the examiner		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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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) Computer Science (2010) Master's degree (1 major) Mathematics (2010) First state examination for the teaching degree Gymnasium Computer Science (2009)		