

Module title		Abbreviation
Data Management and Analysis		12-DM-F-202-m01
Module coordinator		Module offered by
holder of the Junior Professorship of Information Management		Faculty of Business Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>The module covers the fundamentals and concepts of data modelling as well as languages for creating and querying data bases.</p> <p>Main topics:</p> <ul style="list-style-type: none"> - Fundamentals and application of semantic data modelling - Fundamentals and application of the relational data model - Fundamentals and application of data query languages - Further aspects of data modelling 		
Intended learning outcomes		
<p>Upon completion of the module students are able</p> <ul style="list-style-type: none"> (i) to design good conceptual and logical data models; (ii) to transform conceptual data models into physical data schemas; (iii) to create and update databases and tables; (iv) to formulate complex database queries; (v) to design different applications with databases. 		
Courses (type, number of weekly contact hours, language – if other than German)		
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Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
<p>a) Written examination (approx. 60 minutes) or b) term paper (approx. 15 pages) or c) term paper (approx. 10 pages) and presentation (approx. 10 minutes); (weighted 2:1) or d) oral examination (groups of up to 3; approx 10 minutes per candidate)</p> <p>Language of assessment: German and/or English creditable for bonus</p>		
Allocation of places		
<p>50 places.</p> <p>(1) No restrictions with regard to available places for Bachelor's students of Wirtschaftsinformatik (Business Information Systems) (BSc with 180 ECTS credits).</p> <p>(2) Additional places will be allocated to students of other subjects provided there is enough capacity. These additional places will be allocated by lot among all applicants irrespective of their subjects.</p> <p>(3) Places on all courses of the module with a restricted number of places will be allocated in the same procedure. (4) A waiting list will be maintained and places re-allocated by lot as they become available.</p> <p>(4) A waiting list will be maintained and places re-allocated by lot as they become available.</p>		
Additional information		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		

Bachelor' degree (1 major) Business Management and Economics (2015)
Bachelor' degree (1 major) Economathematics (2015)
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2015)
Bachelor' degree (1 major) Economathematics (2017)
Bachelor' degree (1 major) Business Management and Economics (2019)
Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2019)
Bachelor' degree (1 major) Business Information Systems (2020)