## School of Management and Law

## Valid for 2021.HS

Module Name: Inforr						
Module Code	w.BA.XX.2InfoM-WIN.XX					
Module Description	Students understand the motivation of information management. They have knowledge of various data models and forms of data representation. They know and understand their similarities and the characteristics which distinguish them. They can design data models, integrate them with one another, and apply them in the context of specific application cases and technologies. In so doing, they know how to utilize the particular features of individual models in a target-oriented way.					
Program and Specialization	Business Information Technology					
Legal Framework	Academic Regulations BSc dated 29.01.2009, Appendix to the Academic Regulations for the degree programs in Business Administration, Business Information Technology, and Business Law, first adopted on 12.05.2009					
Module Category	Module Type: Compulsory	Program Phase: Main Study Period				
ECTS	6					
Organizational Unit	W Institut für Wirtschaftsinformatik					
Module Coordinator	Alexandre de Spindler (desa)					
Deputy Module Coordinator	Philipp Stalder (stlr)					
Prerequisite Knowledge	Software Engineering:					
	<ul> <li>Modeling with UML</li> <li>Data structures</li> <li>Procedural programming</li> <li>Object-oriented programming</li> <li>Programming reactive software</li> <li>Design and procedure</li> <li>Use of tools</li> </ul>					
	Requirements Engineering:					
	<ul><li>Conceptual modelling</li><li>Model-driven engineering</li></ul>					
Contribution to Program Learning Goals (Affected by Module)	§ Self-Competence					
Contribution to Program Learning Objectives	Professional Competence  § Knowing and Understanding Content of Theoretical and Practical Relevance  § Apply, Analyze, and Synthesize Content of Theoretical and Practical Relevance  § Evaluate Content of Theoretical and Practical Relevance  Methodological Competence  § Problem-Solving & Critical Thinking					
	<ul> <li>§ Work Methods, Techniques, and Procedures</li> <li>§ Information Literacy</li> <li>Self-Competence</li> </ul>					
	§ Learning & Change					
Module Learning Objectives						

Modu	ile Content	<ul> <li>define and conduct iterative and model-driven development processes.</li> <li>compare, select, and apply in a target-oriented way various data representations and their respective data models based on their key concepts and characteristics for the design and implementation of information systems.</li> <li>acquire knowledge and skills regarding data representations, data models, and their applications independently.</li> <li>Knowledge of the requirements of data management.</li> <li>Knowledge of the various forms of data representation.</li> <li>Knowledge and application of different data models.</li> <li>Unterstanding of the concepts behind the models, their similarities and differences.</li> <li>Knowledge and understanding of the characteristics of individual models and their correct, target-oriented application</li> <li>Integrating models with one another</li> <li>Application of acquired knowledge and inherited skills to specific technologies</li> <li>Design, analysis, evaluation, and realization of systems</li> <li>Application of acquired knowledge in iterative and model-driven development of processes.</li> </ul>					
Links	to other modules	-					
Meth	S Lecture S Interactive Instruction S Case Studies S Exercises S Literature Review S Group project		§ Individua				
Digita	al Resources	<ul> <li>§ Teaching Materials</li> <li>§ Practice and Application Exercises (with Key)</li> <li>§ Case Studies (with Key)</li> </ul>					
Type	of Instruction	Classroom Instruction	Guided Self-	Study	Autono	mous Self-Study	
	Large Class	28 h		-			
	Small Class	28 h	28 h				
	Group Instruction	-		-			
	Practical Work	-		-			
	Seminar	_		_			
	Total	56 h		28 h		96 h	
Porfo	rmance Assessment	0011		2011		3011	
I CIIC	End-of-module exam	Form		Length (min	`	Weighting	
		FOIIII			•)		
	Oral exam Permitted	Permitted resources to be communicated.		20   70.00 %			
	Resources	Fermitted resources to be	emitted resources to be communicated.				
	Resources						
	Others	Ass	sessment	Length (min	`	Weighting	
				Lengui (illiii	.,		
OL	Exercises (4)	Gra		-		30.00 %	
	room Attendance irement	Mandatory Attendance: Of Attendance requirements		nicated separately	<b>'</b> .		
Language of English							
	ction/Examination						
Compulsory Reading -							
Recommended Reading -							
Comi	ments	The module description is classes and exams will bo type of performance asses changes due to the pande This is a revised version d	th take place o ssment are how mic.	on campus. Chang vever possible at	es affect short not	ting the module or ice if the situation	