

## Valid from 2026.FS

Valid from 2026.FS  Module description	on: Tools and Technology				
Module Code	w.MA.XX.TAT-M8.22HS				
ECTS Credits	3				
Language of Instruction/Examination	German				
Module Description	This module teaches the basics of how technical developments affect the field and roles in corporate financial management. To this end, the module first addresses fundamental digitalization technologies (e.g., generative AI, RPA, machine learning, data analytics). Students then learn about the effects of digital transformation and its technologies on the role, organization, and processes in accounting and controlling. The module covers both conceptual fundamentals and practical exercises as well as case studies.				
Organizational Unit	Institut für Financial Management (IFI)				
Module Coordinator	Ursina Hüppin				
Deputy Module Coordinator	Gabriela Nagel				
Program and Specialization	Accounting and Controlling				
Legal Framework	Academic Regulations MSc in Accounting and Controlling dated 10.12.2015, Appendix to the Academic Regulations for the degree program in Accounting and Controlling, first adopted on 26.01.2016				
Module Category	Module Type Compulsory				
Prerequisite Knowledge					
Contribution to Program Learning Objectives (by the concerned Module)	<ul> <li>Professional Competence</li> <li>Methodological Competence</li> <li>Social Competence</li> <li>Self-Competence</li> </ul>				
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 Scientific Methodology Work Methods, Techniques, and Procedures Information Literacy Creativity & Innovation Social Competence Written Communication Oral Communication Teamwork & Conflict Management Intercultural Insight & Ability to Change Perspective Self-Competence Self-Management & Self-Reflection Ethical & Social Responsibility Learning & Change				

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Module Learning Objectives	Students  are able to classify the effects of digital transformation and the associated systemic support in accounting and controlling.  have an overview of the various success factors of digital transformation in accounting and controlling.  are familiar with the roles and responsibilities of their future work environment.  learn how digital transformation is influencing accounting and controlling processes and how they will change in the future.  understand modern (statistical) analysis methods and technologies that are increasingly being used in accounting and controlling, e.g., business intelligence, predictive analytics, machine learning, RPA, or artificial intelligence, and can apply selected methods independently.  learn how to use automation solutions such as RPA or agentic automation and can apply selected solutions.  can reiterate the knowledge they have learned in exercises and small group sessions, practice applying it, and discuss the issues covered.  work together in groups in a focused manner.  take different perspectives into account when evaluating solutions and problems.						
Module Content	<ul> <li>Fundamentals of digitalization technologies (e.g., generative artificial intelligence, RPA, machine learning, data analytics, business intelligence) and their use cases</li> <li>Areas of action for digital transformation in accounting and controlling</li> <li>Digital transformation and roles in accounting and controlling</li> <li>Digital transformation and organization in accounting &amp; controlling</li> <li>Digital transformation and processes in accounting &amp; controlling</li> <li>Practical introduction to selected digitalization technologies (varying tools for AI, RPA, machine learning) in accounting and controlling</li> <li>Visualization, commentary, and storytelling in reporting</li> <li>Practical introduction to business intelligence as a digitalization technology for automating processes in accounting and controlling, using Power BI as an example</li> <li>Combining business intelligence and artificial intelligence in practice</li> <li>Case studies and practical transfer from real-world experience</li> </ul>						
Links to other modules	This module is linked to the following modules:  • w.MA.XX.PM-M12.16HS  • w.MA.XX.CO-M3.16HS  • w.MA.XX.CFFM-M7.17HS						
Digital Learning Resources	<ul> <li>Reader</li> <li>Teaching Materials</li> <li>Practice and Application Exercises (with Key)</li> </ul>						
Methods of Instruction	<ul><li>Exercises</li><li>Application 1</li><li>Case Studie</li><li>Project Work</li><li>Lecture</li></ul>	S	Social Settings Used:  • Group Work				
Type of Instruction		Classroom Instruction	Guided Self-Study	Autonomous Self-Study			
	Lecture	32 h	28 h				
	Excercise	-	-				
	Project Work	-	-				
	Seminar						
	Total	32 h	28 h	30 h			

Module description: Tools and Technology								
Performance Assessment	End-of-module exam		Form	Length (min.)	Weighting			
	-							
	Permitted Resources							
	Others	Assessment	Format	Length (min.)	Weighting			
	Written Assignment	Grade	Gruppenarbeit	0	50.00			
	Talk/oral presentation	Grade	Gruppenarbeit	20	50.00			
Classroom Attendance Requirement	None							
Compulsory Reading	<ul> <li>Langmann, C. (2019). Digitalisierung im Controlling. Springer. ISBN 978-3-658-25016-4.</li> <li>Keimer, I. &amp; Egle, U. (2020). Die Digitalisierung der Controlling-Funktion: Anwendungsbeispiele aus Theorie und Praxis. Springer. ISBN 978-3-658-29195-2.</li> </ul>							
Recommended Reading	<ul> <li>Additional online sources on business intelligence/Al will be available on Moodle prior to the start of the first class.</li> <li>Langmann, C. &amp; Turi, D. (2021). Robotic Process Automation (RPA) - Digitalisierung und Automatisierung von Prozessen: Voraussetzungen, Funktionsweise und Implementierung am Beispiel des Controllings und Rechnungswesens. 2nd edition. Springer. ISBN 978-3-658-34679-9.</li> <li>Weber, J. &amp; Schäffer, U. (2020). Einführung in das Controlling. 16th edition. Schäffer-Poeschl. ISBN 978-3-7910-4333-3.</li> </ul>							
Comments								